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New Books in the Veterinary Medicine Library Basic Sciences for Core Medical Training and the MRCP Pharmacognosy And Pharmacobiotechnology Skin Tissue Models Information Sources in the Medical Sciences Biologic Markers in Pulmonary Toxicology Immunomodulating Drugs Elsevier's Integrated Review Pharmacology E-Book Pharmacology: An Introduction Essential Immunology Review of Microbiology and Immunology Mcqs In Pharmacology Pharmacology for Dental and Allied Health Sciences Bitumens and Bitumen Emissions, and Some N- and S-heterocyclic Polycyclic Aromatic Hydrocarbons Targeted Drug Delivery : Concepts and Design Basic Immunology Pharmacology Damp Indoor Spaces and Health Medicinal Chemistry An Introduction to Drug Synthesis Medicinal Plant Biotechnology Allergy Applied Therapeutics Trichloroethylene, Tetrachloroethylene and Some Other Chlorinated Agents Renal Pharmacology Clinical Pharmacology and Therapeutics: Questions for Self Assessment, Third edition Chiral Drugs MCQs in Clinical Pharmacy Basic and Clinical Pharmacology, 11th Edition Marine functional food Pharmacology Modern Pharmaceutics Feline Infectious Peritonitis and Coronavirus Quality of Life and Pharmacoeconomics National Library of Medicine Current Catalog Essentials of Medical Pharmacology MCQs in Pharmacology Real-time PCR Current Catalog Inflammation and Cancer

New Books in the Veterinary Medicine Library

Basic Sciences for Core Medical Training and the MRCP This publication provides an assessment of the carcinogenic hazards associated with exposure to seven chlorinated solvents, including trichloroethylene, tetrachloroethylene, and their metabolites (dichloroacetic acid, trichloroacetic acid, and chloral hydrate). All these agents were previously assessed by IARC Working Groups more than 10 years ago, and new epidemiological and mechanistic evidence has been considered in this reevaluation. Trichloroethylene has been used in several industries, such as manufacture and repair of aircraft and automobiles, and in screw-cutting, while tetrachloroethylene is widely used in dry-cleaning and as a feedstock for the production of chlorinated chemicals.

Pharmacognosy And Pharmacobiotechnology So you think you've got a handle on therapeutic management? How drugs work and interact with each other, how the body handles them and how drug treatments are assessed? This self-assessment volume allows you to learn, revise and test yourself on all aspects of clinical pharmacology and therapeutics. Four different question types are provided to test your knowledge in this important area - multiple choice questions, extended matching questions, 'best of five' and problem-solving questions. Detailed explanatory answers ensure this book solves your queries as well as providing essential revision for those all-important exams. Test your knowledge with Clinical Pharmacology and Therapeutics: Questions for Self Assessment and not only develop your exam technique but become a better prescriber.

Skin Tissue Models This book is widely used textbook 'Essentials of medical pharmacology'. It presents multiple choice questions relevant to fundamental pharmacological principles as well as factual information about drugs needed for their judicious clinical application.

Information Sources in the Medical Sciences This title was first published in 2001: In the early twentieth century the relevance of chirality to the pharmaceutical industry was established by the fact that one enantiomer of hyoscyamine possessed greater pharmacological activity than the other. Today, most new drugs and those under development consist of a single optically active isomer, and chirality is also becoming an issue for the agrochemical and other industries. Regulatory agencies throughout the world are currently reviewing the importance of chirality with regard to pharmaceutical and agrochemical products. New guidelines from such agencies have been key drivers for the focus on single enantiomer products in these industries. These scientific and regulatory developments have created the need for a guide for workers in the pharmaceutical and chemical industries seeking information on chiral molecules, processes, and commercially available chiral chemicals. Chiral Drugs is a comprehensive listing of over 2500 chiral drugs, classified by therapeutic class, and including structures and physical properties for each entry in the listing. Its companion volume, Chiral Intermediates, presents the same detailed information for over 4700 commercially available chiral chemicals. The 'Chiral Pool' of readily available, relatively inexpensive chiral compounds has been expanding at a rapid rate as more and more products are produced in large quantities at economical prices. New developments in various technologies for isolating, preparing, and purifying chiral materials have greatly increased the opportunities for utilizing optically pure compounds in commercial applications. Novel techniques for classical resolution, new methodologies for developing selective enzymes for biocatalysis, advances in the application of microorganisms for chemical production, and continued progress in the area of asymmetric synthesis have all contributed to the growth of this field. Part One of each book contains four chapters which provide an introduction to topics relevant to the field of chiral chemistry and includes a brief overview of chirality, a short discussion on the current market drivers in the area of chiral chemistry, and a basic presentation of the various sources and methods for obtaining chiral compounds. Part Two presents entries for over 2500 chiral drugs, classified by therapeutic class. For each main entry, the chemical name and a list of trade names and synonyms is provided; the CAS Registry Number, the European Inventory of Existing Commercial Chemical Substances (EINECS) number, and the Merck Index (12th edition) number are given when available. The physical properties, including specific rotation, of each compound are described and indicated applications are presented. The structure of nearly every compound is provided, and the manufacturers and suppliers of the compounds are also given. Indexes, including a master index of names and synonyms and an index of custom manufacturing services for production of chiral compounds, are appended. Chiral Drugs provides an introduction to the types of sources and methods currently in use for obtaining chiral molecules and is an invaluable resource for researchers in the pharmaceutical and biotechnology sectors as well as to those working in the basic biochemical sciences. Chiral Intermediates provides an introduction to the types of sources and methods currently in use for obtaining chiral molecules and is an invaluable resource for information on available chiral molecules. Chiral Intermediates and Chiral Drugs are the most comprehensive and detailed guides to chiral compounds available.

Biologic Markers in Pulmonary Toxicology The 2nd edition of this popular text emphasizes the fundamental concepts and principles of human immunology that students need to know, without overwhelming them with extraneous material. It leads the reader to a firm understanding of basic principles, using full-color illustrations; short, easy-to-read chapters; color tables that summarize key information clinical cases; and much more—all in a conveniently sized volume that's easy to carry. The New Edition has been thoroughly updated to reflect the many advances that are expanding our understanding of the field. The smart way to study! Elsevier titles with STUDENT CONSULT will help you master difficult concepts and study more efficiently in print and online! Perform rapid searches. Integrate bonus content from other disciplines. Download text to your handheld device. And a lot more. Each STUDENT CONSULT title comes with full text online, a unique image library, case studies, USMLE style questions, and online note-taking to enhance your learning experience. Your purchase of this book entitles you to access www.studentconsult.com at no extra charge. This innovative web site offers you Access to the complete text and illustrations of this book. Integration links to bonus content in other STUDENT CONSULT titles. Content clipping for your handheld. An interactive community center with a wealth of additional resources. The more STUDENT CONSULT titles you buy, the more resources you can access online! Look for the STUDENT CONSULT logo on your favorite Elsevier textbooks!

Immunomodulating Drugs

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Elsevier's Integrated Review Pharmacology E-Book

Pharmacology: An Introduction This new edition has been fully revised to bring pharmacologists and trainees fully up to date with the latest developments in the field of medical pharmacology. Beginning with an introduction to general pharmacological principles, the following sections discuss drugs for common and less common disorders found in different regions of the body. The seventh edition includes new drugs, as well as the latest therapeutic guidelines from authoritative sources such as the World Health Organisation (WHO) and the British National Formulary (BNF). Each topic includes key point summary boxes as well as illustrations, flowcharts and tables to enhance learning. A 'problem-directed study' question at the end of each chapter helps trainees test their knowledge. An extensive appendices section includes a list of essential medicines, drugs that should/shouldn't be prescribed in pregnancy and lactation, and suggestions for further reading. Key points Fully revised, new edition presenting latest developments in medical pharmacology Includes therapeutic guidelines from WHO and BNF Problem-directed study questions and key point summary boxes enhance learning Previous edition published in 2008

Essential Immunology First multi-year cumulation covers six years: 1965-70.

Review of Microbiology and Immunology Covering the latest advances in the use of plants to produce medicinal drugs and vaccines, examines topics including plant tissue culture, secondary metabolite production, metabolomics and metabolic engineering, bioinformatics, molecular farming and future biotechnological directions.

Mcqs In Pharmacology Effectively merge basic science and clinical skills with Elsevier's Integrated Review Pharmacology, by Mark Kester, PhD, Kelly Dowhower Karpa, PhD, RPh, and Kent E. Vrana, PhD. This concise, high-yield title in the popular Integrated Series focuses on the core knowledge in pharmacology while linking that information to related concepts from other basic science disciplines. Case-based questions at the end of each chapter enable you to gauge your mastery of the material, and a color-coded format allows you to quickly find the specific guidance you need. Online access via www.studentconsult.com is included with your purchase. This concise and user-friendly reference provides crucial guidance for the early years of medical training and USMLE preparation. Spend more time reviewing and less time searching thanks to an extremely focused, "high-yield" presentation. Gauge your mastery of the material and build confidence with case-based, USMLE-style questions that provide effective chapter review and quick practice for your exams. Access to www.studentconsult.com where you'll find an interactive community center with a wealth of additional resources! Grasp and retain vital concepts more easily thanks to a color-coded format, succinct bulleted text, key concept boxes, Top Five lists, and dynamic illustrations that facilitate learning in a highly visual approach. Effectively review for problem-based courses with the help of text boxes that help you clearly see the clinical relevance of the material.

Pharmacology for Dental and Allied Health Sciences

Bitumens and Bitumen Emissions, and Some N- and S-heterocyclic Polycyclic Aromatic Hydrocarbons The second edition of Medicinal Chemistry is based on the core module of pharmacy syllabi of various technical universities, and targets undergraduate B.Pharma students across India. The current edition has been designed by authors based on the opinion of the experts to include the latest developments in the field of medicinal chemistry, detailed synthesis mechanism of the drugs and their mode of action inside the body.

Targeted Drug Delivery : Concepts and Design Based on Dr. Spilker's classic Quality of Life and Pharmacoeconomics in Clinical Trials, 2nd Edition, this streamlined sourcebook offers an easy-to-understand introduction to an increasingly critical aspect of health care. Seven succinct sections review key aspects of health-related quality of life and the essentials of pharmacoeconomics, providing expert answers to your most pressing questions: What generic HRQOL and disease-specific assessments are available? How are these scales chosen, used, and interpreted? What instruments do I need and where can I find them? What is the relationship between pharmacoeconomics and quality of life? Between outcomes research and quality of life? Well-organized and easy to use, Quality of Life and Pharmacoeconomics: An Introduction will become a standard textbook for professionals and students in all areas of medical research and practice.

Basic Immunology The most trusted and up-to-date pharmacology text in medicine -- completely redesigned to make the learning process even more interesting and efficient 5 Star Doody's Review! "This is the most widely used textbook for teaching pharmacology to health professionals. This 11th edition is far superior to any previous editions. The authors' goals are to provide a complete, authoritative, current, and readable textbook of pharmacology for students in health sciences. Testimony to their success is the widespread use of this work as required textbook for pharmacology courses around the world. This book is used extensively by thousands of medical, pharmacy, podiatry, nursing, and other health professions students to study pharmacology. Likewise, it remains a valuable resource for residents and practicing physicians. I continue to use this book as a required resource for all courses that I teach to medical, nursing, and allied health students. It is authoritative, readable, and supported by numerous learning tools."--Doody's Review Service Organized to reflect the syllabi in Pharmacology courses, Basic & Clinical Pharmacology covers all the important concepts students need to know about the science of pharmacology and its application to clinical practice. It is acknowledged worldwide as the field's most current, authoritative, and comprehensive textbook. To be as clinically relevant as possible, the book features a strong focus on the choice and use of drugs in patients and the monitoring of their effects. Coverage that spans every important aspect of medical pharmacology: Basic Principles Autonomic Drugs Cardiovascular-Renal Drugs Drugs with Important Actions on Smooth Muscle Drugs that Act in the Central Nervous System Drugs Used to Treat Diseases of the Blood, Inflammation, and Gout Endocrine Drugs Chemotherapeutic Drugs Toxicology NEW to this edition: Full-color presentation, including 300+ illustrations Case studies introduce clinical problems in many chapters Drug summary tables for key information in comparative context Descriptions of important newly released drugs, including new immunopharmacologic agents Expanded coverage of general concepts relating to newly discovered receptors, receptor mechanisms, and drug transporters

Pharmacology

Damp Indoor Spaces and Health

Medicinal Chemistry Providing a clear explanation of the relevant medical science behind the individual medical specialties, Basic Science for Core Medical Training and the MRCP, is an indispensable part of a candidate's MRCP preparation. Directly linked to the Royal College exam, the book follows the same systems-based approach as the syllabus for accurate and effective revision. With full coverage of basic science for the medical specialties, the book features material on genetics, cellular, molecular and membrane biology, and biochemistry. Content is presented in an illustrated and easy-to-read format, ensuring that the basic science for each medical specialty is more approachable and accessible. A focus on how the basic sciences aid understanding of clinical practice is reinforced through key tables of differential diagnoses and pharmacology. Ten multiple choice questions at the end of each chapter consolidate learning and enable candidates to test their knowledge. The book also covers common examination errors and areas of misunderstanding to aid learning and help candidates avoid common pitfalls.

An Introduction to Drug Synthesis This authoritative volume explores the fundamental concepts and numerous applications of targeted delivery of drugs to the body. This compilation has been divided into eight sections comprised of the basic principles of drug targeting, disease and organ/organelle-based targeting, passive and active targeting strategies, and various advanced drug delivery tools such as functionalized lipidic, polymeric and inorganic nanocarriers. Together, the twenty-three chapters cover a wide range of topics in the field, including tumor

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and hepatic targeting, polymer-drug conjugates, nanoemulsion, physical and biophysical characteristics of nanoparticles, and in vivo imaging techniques, among others. The book also examines advanced characterization techniques, regulatory hurdles and toxicity-related issues that are key features for successful commercialization of targeted drug delivery system products. Targeted Drug Delivery is a comprehensive reference guide for drug delivery researchers, both beginners and those already working in the field.

Medicinal Plant Biotechnology Skin Tissue Models provides a translational link for biomedical researchers on the interdisciplinary approaches to skin regeneration. As the skin is the largest organ in the body, engineered substitutes have critical medical application to patients with disease and injury - from burn wounds and surgical scars, to vitiligo, psoriasis and even plastic surgery. This volume offers readers preliminary description of the normal structure and function of mammalian skin, exposure to clinical problems and disease, coverage of potential therapeutic molecules and testing, skin substitutes, models as study platforms of skin biology and emerging technologies. The editors have created a table of contents which frames the relevance of skin tissue models for researchers as platforms to study skin biology and therapeutic approaches for different skin diseases, for clinicians as tissue substitutes, and for cosmetic and pharmaceutical industries as alternative test substrates that can replace animal models. Offers descriptions of the normal structure/function of mammalian skin, exposure to clinical problems, and more Presents coverage of skin diseases (cancer, genodermatoses, vitiligo and psoriasis) that extends to clinical requirements and skin diseases in vitro models Addresses legal requirements and ethical concerns in drugs and cosmetics in vitro testing Edited and authored by internationally renowned group of researchers, presenting the broadest coverage possible

Allergy With a variety of detection chemistries, an increasing number of platforms, multiple choices for analytical methods and the jargon emerging along with these developments, real-time PCR is facing the risk of becoming an intimidating method, especially for beginners. Real-time PCR provides the basics, explains how they are exploited to run a real-time PCR assay, how the assays are run and where these assays are informative in real life. It addresses the most practical aspects of the techniques with the emphasis on 'how to do it in the laboratory'. Keeping with the spirit of the Advanced Methods Series, most chapters provide an experimental protocol as an example of a specific assay.

Applied Therapeutics This volume of the IARC Monographs provides evaluations of the carcinogenicity of bitumens and their emissions, the N-heterocyclic polycyclic aromatic hydrocarbons benz[a]acridine, benz[c]acridine, dibenz[a,h]acridine, dibenz[a,j]acridine, dibenz[c,h]acridine, carbazole and 7H-dibenzo[c,g]carbazole, as well as the S-heterocyclic polycyclic aromatic hydrocarbons benzo[b]naphtho[2,1-d]thiophene and dibenzothiofene. Bitumens are produced by distillation of crude oil during petroleum refining, and also occur naturally. Bitumens can be divided into six broad classes, according to their physical properties and specifications required for different applications. The major use (about 80%) of bitumens is for road paving; other uses include roofing, waterproofing, sealing and painting. The term "bitumen" should not be confused with "asphalt", which refers to the mixture of bitumen (4-10% by weight), small stones, sand and filler used for road paving. Bitumens are complex mixtures that contain a large number of organic chemical compounds. Application of bitumens may generate emissions (fumes and vapours) that may contain, among volatile and non-volatile compounds, a number of known or probable carcinogens. An IARC Monographs Working Group reviewed epidemiological evidence, animal bioassays, and mechanistic and other relevant data to reach conclusions as to the carcinogenic hazard to humans of various occupations that entail exposure to bitumens and bitumen emissions, including road paving, roofing, and application of mastic asphalt, and to various heterocyclic polycyclic aromatic compounds.

Trichloroethylene, Tetrachloroethylene and Some Other Chlorinated Agents "Completely revised and expanded throughout. Presents a comprehensive integrated, sequenced approach to drug dosage formulation, design, and evaluation. Identifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration."

Renal Pharmacology This volume examines in detail the role of chronic inflammatory processes in the development of several types of cancer. Leading experts describe the latest results of molecular and cellular research on infection, cancer-related inflammation and tumorigenesis. Further, the clinical significance of these findings in preventing cancer progression and approaches to treating the diseases are discussed. Individual chapters cover cancer of the lung, colon, breast, brain, head and neck, pancreas, prostate, bladder, kidney, liver, cervix and skin as well as gastric cancer, sarcoma, lymphoma, leukemia and multiple myeloma.

Clinical Pharmacology and Therapeutics: Questions for Self Assessment, Third edition

Chiral Drugs

MCQs in Clinical Pharmacy An Introduction to Drug Synthesis explores the central role played by organic synthesis in the process of drug design and development - from the generation of novel drug structures to the improved efficiency of large scale synthesis.

Basic and Clinical Pharmacology, 11th Edition Biologic markers—indicators of biological exposure or change—offer the promise of early detection of disease caused by environmental exposure. Researchers have used these markers to discover indications of pulmonary damage from low-level ozone, a finding with serious implications for health professionals and environmental regulators. Biologic Markers in Pulmonary Toxicology is a comprehensive study of this use of biologic markers. Focusing on the respiratory tract as an entryway for airborne pollutants, this volume reviews new ways of measuring markers, the need for markers to indicate dose or exposure levels, noninvasive respiratory function tests for use with healthy humans to detect sensitivity to inhaled pollutants, approaches to evaluating markers down to the cellular and biochemical levels, and more.

Marine functional food Pharmacology, 7e by Hitner/Nagle is incredibly readable, with short chapters that link theory to practice; content that is focused on the need-to-know information to not overload the reader; excellent tables and features such as Patient Administration and Monitoring Boxes; and the most up-to-date drug information. This new edition features revised Learning Outcomes for each chapter, with a more streamlined chapter structure to reflect those updates. Chapter reviews have been revised to more closely mirror typical exam formats, and a variety of additional exercises are available on Connect Plus. The full suite of instructor materials is available. Hitner 7e has Connect Plus, including LearnSmart: Pharmacology, SmartBook, body system and pharmacology animations, dosage calculations exercises, and more.

Pharmacology Feline infectious peritonitis (FIP) is a major killer of pedigree/purebred kittens and cats from rescue shelters in the 21st century. FIP is one of the most enigmatic, and difficult to diagnose, feline diseases. FIP is caused by feline coronavirus (FCoV), but most cats infected with FCoV do not develop FIP. The key messages of this book are: 1. The most important way to prevent FIP is by preventing infection with feline coronavirus. 2. Have any new kitten or cat tested for FCoV antibodies before bringing him or her into your home, if you already have cats. 3. Most cats infected with FCoV eliminate the virus after a few months, and remain perfectly healthy. 4. Cats become infected with FCoV by contact with cat litter (or cat litter dust particles) contaminated with virus laden faeces from an infected cat. 5. Most cats suspected of having FIP actually have some other, often treatable, condition.

Modern Pharmaceutics Reviews the research on seafood and health, the use and quality aspects of marine lipids and seafood proteins as ingredients in functional foods and consumer acceptance of (marine) functional food.

Feline Infectious Peritonitis and Coronavirus The conference papers in this volume review progress in the development of new immunomodulating agents and strategies in treating immunologic disorders, along with surveying new information on the effects on immune

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functions of the older immunomodulating drugs. Topics include design and synthesis, mode of action, pharmacology, toxicology, isolation and structural elucidation of natural products with immunomodulating activities, clinical applications, peptides as immunomodulating agents, immuno-therapy of infectious diseases, and the role of biological response modifiers.

Quality of Life and Pharmacoeconomics

National Library of Medicine Current Catalog

Essentials of Medical Pharmacology Almost all homes, apartments, and commercial buildings will experience leaks, flooding, or other forms of excessive indoor dampness at some point. Not only is excessive dampness a health problem by itself, it also contributes to several other potentially problematic types of situations. Molds and other microbial agents favor damp indoor environments, and excess moisture may initiate the release of chemical emissions from damaged building materials and furnishings. This new book from the Institute of Medicine examines the health impact of exposures resulting from damp indoor environments and offers recommendations for public health interventions. Damp Indoor Spaces and Health covers a broad range of topics. The book not only examines the relationship between damp or moldy indoor environments and adverse health outcomes but also discusses how and where buildings get wet, how dampness influences microbial growth and chemical emissions, ways to prevent and remediate dampness, and elements of a public health response to the issues. A comprehensive literature review finds sufficient evidence of an association between damp indoor environments and some upper respiratory tract symptoms, coughing, wheezing, and asthma symptoms in sensitized persons. This important book will be of interest to a wide-ranging audience of science, health, engineering, and building professionals, government officials, and members of the public.

MCQs in Pharmacology You'll never find an easier, more efficient, and more focused way to ace the pharmacology and pharmacology-related questions on the USMLE and course examinations than the USMLE Road Map. Designed to provide maximum learning in minimum time, this USMLE Road Map offers a concise, creative, and well-illustrated new approach to mastering pharmacology. Book jacket.

Real-time PCR The Second Edition of this popular text has been thoroughly revised to provide a greater emphasis on the clinical aspects of allergy and the principles of diagnostic decision making. A new editor, Lawrence Lichtenstein, MD, joins Drs. Holgate and Church, ensuring that international differences in treatment and management are considered, as well as overseeing the clinical content. Heavy clinical emphasis gives the busy clinician information on diagnosing and treating allergies. Packed full of diagnostic algorithms and therapeutic protocols to assist clinicians in prescribing appropriate therapies and effectively managing allergic diseases. Consistent organization throughout allows busy clinicians to quickly access needed material in any clinical chapter. New chapter on Principles of Allergy Diagnosis provides at-a-glance assistance in correctly diagnosing an allergic disease All information about asthma has been collected into a single chapter ensuring complete and consistent coverage for perhaps the most commonly encountered allergic disease. Increased coverage of therapeutics and valuable treatment protocols Spanish version also available, ISBN: 84-8174-563-4

Current Catalog Frequently attempts to design experiments utilizing the methodology described in articles in trade journals can be frustrating. Description of procedures, because of space constraints, are not always complete. The present volume attempts to bring together in one reference source many of the techniques which are utilized in the study of the kidney. It provides a thorough compendium of research tools, framed by the critical analysis of the theoretical background of renal physiology, biochemistry, and pharmacology discussed in Volume 4A. Some areas previously dealt with are not covered from a methodological point of view since adequate information does exist elsewhere (e.g., methods of whole kidney ATPase isolation). Since drugs acting on the kidney may alter not only functional but anatomical integrity, a chapter on the preparation of tissue for morphological studies has been included. The important developments in analysis of minute (ultramicro) quantities of tissue and biological fluids, as well as methodological advances in studies of the isolated kidney, are thoroughly covered. It is my hope that investigators, research fellows, and graduate students will benefit from the information contained in this volume and that, together with its companion tome, it will be a ready reference for the renal physiologist, the renal pharmacologist, and the nephrologist. The contributors have provided painstaking descriptions and, when required, mathematical analyses of the techniques described herein. I wish to thank all of them for their enthusiasm and the excellence of their contributions.

Inflammation and Cancer This is an invaluable revision aid for those preparing for multiple choice questions in clinical pharmacy. Questions in this textbook are practice-oriented and are intended to assess students' knowledge of clinical issues, evaluative and analytical skills, and ability to apply their knowledge in clinical practice. The MCQs will be presented as four practice tests and each test should take c3 hours. Each test will consist of 80 MCQs presented in a variety of formats. Main topics include: therapeutics and rational drug use; aetiology of disease states; presentation of conditions; investigations and diagnostic testing; drug therapy including adverse drug reactions; drug interactions; and contra-indications.

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