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6F7 - KATELYN ROACH

Concepts in Clinical Pharmacokinetics has helped thousands of students and practitioners through five editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This 6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. Inside you will find: Content broken into 15 easy-to-follow lessons, perfect for a semester. Practice quizzes in 11 chapters to chart progress. Four chapters completely devoted to clinical cases. More information on hemodialysis More on pharmacogenetics More on plasma concentration versus time curve (AUC) calculations A phenytoin “cheat sheet” to help you through the calculations maze New vancomycin cases based on higher desired vancomycin levels and trough-only dose estimations More on modified diet in renal disease (MDRD) formula versus Cockcroft-Gault (CG) formula methods More theory and problems on extended interval aminoglycosides. - See more at: http://store.ashp.org/Store/ProductListing/ProductDetails.aspx?productId=153117615#sthash.58RrToYW.dpu Concepts in Clinical Pharmacokinetics has helped thousands of students and practitioners through five editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This 6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. 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The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This 6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. Inside you will find: Content broken into 15 easy-to-follow lessons, perfect for a semester. Practice quizzes in 11 chapters to chart progress. Four chapters completely devoted to clinical cases. 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Principles of Research Design and Drug Literature Evaluation is a unique resource that provides a balanced approach covering critical elements of clinical research, biostatistical principles, and scientific literature evaluation techniques for evidence-based medicine. This accessible text provides comprehensive course content that meets and exceeds the curriculum standards set by the Accreditation Council for Pharmacy Education (ACPE). Written by expert authors specializing in pharmacy practice and research, this valuable text will provide pharmacy students and practitioners with a thorough understanding of the principles and practices of drug literature evaluation with a strong grounding in research and biostatistical principles. Principles of Research Design and Drug Literature Evaluation is an ideal foundation for professional pharmacy students and a key resource for pharmacy residents, research fellows, practitioners, and clinical researchers. FEATURES * Chapter Pedagogy: Learning Objectives, Review Questions, References, and Online Resources * Instructor Resources: PowerPoint Presentations, Test Bank, and an Answer Key * Student Resources: a Navigate Companion Website, including Crossword Puzzles, Interactive Flash Cards, Interactive Glossary, Matching Questions, and Web Links From the Foreword: "This book was designed to provide and encourage practitioner’s development and use of critical drug information evaluation skills through a deeper understanding of the foundational principles of study design and statistical methods. Because guidance on how a study’s limited findings should not be used is rare, practitioners must understand and evaluate for themselves the veracity and implications of the inherently limited primary literature findings they use as sources of drug information to make evidence-based decisions together with their patients. The editors organized the book into three supporting sections to meet their pedagogical goals and address practitioners’ needs in translating research into practice. Thanks to the editors, authors, and content of this book, you can now be more prepared than ever before for translating research into practice." L. Douglas Ried, PhD, FAPhA Editor-in-Chief Emeritus, Journal of the American Pharmacists Association Professor and Associate Dean for Academic Affairs, College of Pharmacy, University of Texas at Tyler, Tyler, Texas

Celebrating 100 years of HEP, this volume will discuss key pharmacological discoveries and concepts of the past 100 years. These discoveries have dramatically changed the medical treatment paradigms of many diseases and these concepts have and will continue to shape discovery of new medicinies. Newly evolving technologies will similarly be discussed as they will shape the future of the pharmacology and, accordingly, medical therapy.

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Precision Public Health is a new and rapidly evolving field, that examines the application of new technologies to public health policy and practice. It draws on a broad range of disciplines including genomics, spatial data, data linkage, epidemiology, health informatics, big data, predictive analytics and communications. The hope is that these new technologies will strengthen preventive health, improve access to health care, and reach disadvantaged populations in all areas of the world. But what are the downsides and what are the risks, and how can we ensure the benefits flow to those population groups most in need, rather than simply to those individuals who can afford to pay? This is the first collection of theoretical frameworks, analyses of empirical data, and case studies to be assembled on this topic, published to stimulate debate and promote collaborative work.

Pharmacoepidemiology and Pharmacovigilance: Synergistic Tools to Better Investigate Drug Safety examines the role of pharmacoepidemiologic studies in drug development and its use as a prevention tool in pharmacovigilance activities. The book introduces the various epidemiologic tools and study designs commonly used for the surveillance of drug-related adverse effects and reviews the strengths and weaknesses of each. Criticisms surrounding pharmacoepidemiologic research and issues that often interfere or complicate the conduct and interpretation of these studies are also explored. Case studies illustrate the passive and active surveillance of adverse drug reactions in clinical situations, covering important pharmacoepidemiologic concepts like health risk management and safety. The book helps pharmaceutical industry groups engaged in drug safety, clinical investigators, medical evaluators and those seeking regulatory approval enhance the safety of the drug development process for all patient populations. Describes the main prevention tools for the passive and active surveillance of adverse effects associated with drugs Provides examples of diseases in various contexts related to clinical studies and the analysis of adverse drug reactions Offers case studies that illustrate real-life clinical situations Discusses important concepts related to pharmacoepidemiology and pharmacovigilance

This is a print on demand edition of a hard to find publication. As a step toward fostering strategic investments in public health research and science, the CDC developed this comprehensive guide. To achieve practical, cost-effective policies, programs, and practices that improve health, the field of public health will need to place a high priority on interdisciplinary, cross-cutting research that facilitates innovations and helps inform many program areas. Researchers at CDC are aligning their work and research efforts to achieve specific Health Protection Goals that focus on four inter-related areas: healthy people across all stages of life; healthy places and communities; preparedness against infectious, occupational, environmental and terrorist threats; and improved global health. Charts and tables.

Highly Commended at the BMA Medical Book Awards 2015 Mann’s Pharmacovigilance is the definitive reference for the science of detection, assessment, understanding and prevention of the adverse effects of medicines, including vaccines and biologics. Pharmacovigilance is increasingly im-

portant in improving drug safety for patients and reducing risk within the practice of pharmaceutical medicine. This new third edition covers the regulatory basis and the practice of pharmacovigilance and spontaneous adverse event reporting throughout the world. It examines signal detection and analysis, including the use of population-based databases and pharmacoepidemiological methodologies to proactively monitor for and assess safety signals. It includes chapters on drug safety practice in specific organ classes, special populations and special products, and new developments in the field. From an international team of expert editors and contributors, Mann's Pharmacovigilance is a reference for everyone working within pharmaceutical companies, contract research organisations and medicine regulatory agencies, and for all researchers and students of pharmaceutical medicine. The book has been renamed in honor of Professor Ronald Mann, whose vision and leadership brought the first two editions into being, and who dedicated his long career to improving the safety and safe use of medicines.

An estimated 48 percent of the population takes at least one prescription drug in a given month. Drugs provide great benefits to society by saving or improving lives. Many drugs are also associated with side effects or adverse events, some serious and some discovered only after the drug is on the market. The discovery of new adverse events in the postmarketing setting is part of the normal natural history of approved drugs, and timely identification and warning about drug risks are central to the mission of the Food and Drug Administration (FDA). Not all risks associated with a drug are known at the time of approval, because safety data are collected from studies that involve a relatively small number of human subjects during a relatively short period. Written in response to a request by the FDA, Ethical and Scientific Issues in Studying the Safety of Approved Drugs discusses ethical and informed consent issues in conducting studies in the postmarketing setting. It evaluates the strengths and weaknesses of various approaches to generate evidence about safety questions, and makes recommendations for appropriate followup studies and randomized clinical trials. The book provides guidance to the FDA on how it should factor in different kinds of evidence in its regulatory decisions. Ethical and Scientific Issues in Studying the Safety of Approved Drugs will be of interest to the pharmaceutical industry, patient advocates, researchers, and consumer groups.

Teaching epidemiology is a task that requires skills and knowledge. The overriding requirement is knowledge, which should be combined with a clear teaching strategy and good pedogogic skills. The general advice is simple: if you are not an expert on a topic, try to enrich your background knowledge before you start teaching it. Teaching Epidemiology, Second Edition helps you to locate the most important sources of knowledge you need to study before you start, by providing the world expert teachers' advice on how best to structure teaching--a unique insight into what has worked in their hands. The book will help you plan your own tailored teaching program. The book is a guide to new teachers in the field at two levels, those teaching basic courses for undergraduates, and those teaching more advanced course for students at the postgraduate level. Each chapter provides key concepts and a list of key references. Specific methodology and disease, specific issues, from cancer to genetic epidemiology, are dealth with in detail. In this day and age, no book is complete without a focused chapter on the principles and practice of computer assisted learning. This new edition is published in collaboration with the International Association of Epidemiology (IEA) and the Eruopean Programme in Epidemiology (EEPA).

Encyclopedia of Pharmacy Practice and Clinical Pharmacy covers definitions, concepts, methods, theories and applications of clinical pharmacy and pharmacy practice. It highlights why and how this field has a significant impact on healthcare. The work brings baseline knowledge, along with the latest, most cutting-edge research. In addition, new treatments, algorithms, standard treatment guidelines, and pharmacotherapies regarding diseases and disorders are also covered. The book's main focus lies on the pharmacy practice side, covering pharmacy practice research, pharmacovigilance, pharmacoeconomics, social and administrative pharmacy, public health pharmacy, pharmaceutical systems research, the future of pharmacy, and new interventional models of pharmaceutical care. By providing concise expositions on a broad range of topics, this book is an excellent resource for those seeking information beyond their specific areas of expertise. This outstanding reference is essential for anyone involved in the study of pharmacy practice. Provides a 'one-stop' resource for access to information written by world-leading scholars in the field Meticulously organized, with articles split into three clear sections, it is the ideal resource for students, researchers and professionals to find relevant information Contains concise and accessible chapters that are ideal as an authoritative introduction for non-specialists and readers from the undergraduate level upwards Includes multimedia options, such as hyperlinked references and further readings, cross-references and videos

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product.Understand the essential principles of toxicology and how poisons affect the human body with this accessible and engaging summary A Doody's Core Title for 2017! Casarett & Doull's Essentials of Toxicology is an easy-to-absorb distillation of the major principles and concepts that were presented in depth in Casarett & Doull's Toxicology: The Basic Science of Poisons, Eighth Edition, the field's gold-standard text. Presented in full color, the book concisely describes the science of toxicology, and includes important concepts from anatomy, physiology, and biochemistry to facilitate the understanding of the principles and mechanisms of toxicant action on specific organ systems. A summary of key points at the beginning and review questions at the end of each chapter help you study, understand, and memorize the material. Reflecting the expertise of more than sixty renowned contributors, Casarett & Doull's Essentials of Toxicology is logically divided into seven sections: Succinct and comprehensive, there is no better text for gaining an understanding of essential principles, toxicokinetics, how toxic effects are passed on to succeeding generations, how each body system responds to poisons, and the specific effects of a wide range of toxic agents than Casarett & Doull's Essentials of Toxicology.

Teaching epidemiology requires skill and knowledge, combined with a clear teaching strategy and good pedagogic skills. The general advice is simple: if you are not an expert on a topic, try to enrich your background knowledge before you start teaching. Teaching Epidemiology, third edition helps you to do this, and by providing the world-expert teacher's advice on how best to structure teaching gives a unique insight in to what has worked in their hands. The book will help you plan your own tailored teaching program. The book is a guide to new teachers in the field at two levels; those teaching basic courses for undergraduates, and those teaching more advanced courses for students at postgraduate level. Each chapter provides key concepts and a list of key references. Subject specific methodology and disease specific issues (from cancer to genetic epidemiology) are dealt with in details. There is also a focused chapter on the principles and practice of computer-assisted learning.

This classic, field-defining textbook, now in its sixth edition, provides the most comprehensive guidance available for anyone needing up-to-date information in pharmacoepidemiology. This edition has been fully revised and updated throughout and continues to provide a rounded view on all perspectives from academia, industry and regulatory bodies, addressing data sources, applications and methodologies with great clarity.

The undisputed leader in medical pharmacology, without equal. Updated to reflect all critical new developments in drug action and drug-disease interaction. This is the "desert island" book of all medical pharmacology—if you can own just one pharmacology book, this is it.

From 'Abcissa' to 'Zygosity determination' - this accessible introduction to the terminology of medical statistics describes more than 1500 terms all clearly explained, illustrated and defined in non-technical language, without any mathematical formulae! With the majority of terms revised and updated and the addition of more than 100 brand new definitions, this new edition will enable medical students to quickly grasp the meaning of any of the statistical terms they encounter when reading the medical literature. Furthermore, annotated comments are used judiciously to warn the unwary of some of the common pitfalls that accompany some cherished biomedical statistical techniques. Wherever possible, the definitions are supplemented with a reference to further reading where the reader may gain a deeper insight, so whilst the definitions are easily disgestible, they also provide a stepping stone to a more sophisticated comprehension. Statistical terminology can be quite bewildering for clinicians: this guide will be a lifesaver.

At any point in the drug development process, systematic reviews and meta-analysis can provide important information to guide the future path of the development program and any actions that might be needed in the post-marketing setting. This report gives the rationale for why and when a meta-analysis should be considered, all in the context of regulatory decision-making, and the tasks, data collection, and analyses that need to be carried out to inform those decisions. There is increasing demand by decision-makers in health care, the bio-pharmaceutical industry, and society at large to have access to the best available evidence on benefits and risks of medicinal products. The best strategy will take an overview of all the evidence and where it is possible and sensible, combine the evidence and summarize the results. For efficacy, the outcomes generally use the same or very similar predefined events for each of the trials to be included. Most regulatory guidance and many Cochrane Collaboration reviews have usually given more attention to assessment of benefits, while issues around combining evidence on harms have not been as well-covered. However, the (inevitably) unplanned nature of the data on safety makes the process more difficult. Combining evidence on adverse events (AEs), where these were not the focus of the original studies, is more challenging than combining evidence on pre-specified benefits. This focus on AEs represents the main contribution of the current CIOMS X report. The goal of the CIOMS X report is to provide principles on appropriate application of meta-analysis in assessing safety of pharmaceutical products to inform regulatory decision-making. This report is about meta-analysis in this narrow area, but the present report should also provide conceptually helpful points to consider for a wider range of applications, such as vaccines, medical devices, veterinary medicines or even products that are combinations of medicinal products and medical devices. Although some of the content of this report describes highly technical statistical concepts and methods (in particular Chapter 4), the ambition of the working group has been to make it comprehensible to non-statisticians for its use in clinical epidemiology and regulatory science. To that end, Chapters 3 and 4, which contain the main technical statistical aspects of the appropriate design, analysis and reporting of a meta-analysis of safety data are followed by Chapter 5 with a thought process for evaluating the findings of a meta-analysis and how to communicate these.

Recent scientific and technological advances have accelerated our understanding of the causes of disease development and progression, and resulted in innovative treatments and therapies. Ongoing work to elucidate the effects of individual genetic variation on patient outcomes suggests the rapid pace of discovery in the biomedical sciences will only accelerate. However, these advances belie an important and increasing shortfall between the expansion in therapy and treatment options and knowledge about how these interventions might be applied appropriately to individual patients. The impressive gains made in Americans' health over the past decades provide only a preview of what might be possible when data on treatment effects and patient outcomes are systematically captured and used to evaluate their effectiveness. Needed for progress are advances as dramatic as those experienced in biomedicine in our approach to assessing clinical effectiveness. In the emerging era of tailored treatments and rapidly evolving practice, ensuring the translation of scientific discovery into improved health outcomes requires a new approach to clinical evaluation. A paradigm that supports a continual learning process about what works best for individual patients will not only take advantage of the rigor of trials, but also incorporate other methods that might bring insights relevant to clinical care and endeavor to match the right method to the question at hand. The Institute of Medicine Roundtable on Value & Science-Driven Health Care's vision for a learning healthcare system, in which evidence is applied and generated as a natural course of care, is premised on the development of a research capacity that is structured to provide timely and accurate evidence relevant to the clinical decisions faced by patients and providers. As part of the Roundtable's Learning Healthcare System series of workshops, clinical researchers, academics, and policy makers gathered for the workshop Redesigning the Clinical Effectiveness Research Paradigm: Innovation and Practice-Based Approaches. Participants explored cutting-edge research designs and methods and discussed strategies for development of a research paradigm to better accommodate the diverse array of emerging data resources, study designs, tools, and techniques. Presentations and discussions are summarized in this volume.

Recognized for its succinct and compelling discussion of epidemiology and its role in medicine. 4 STAR DOODY'S REVIEW! "This is a well-written, easy to read, well-illustrated primer, which medical students and others should read. A nice feature of the book is all key concepts are highlighted for emphasis, with summaries at the beginning and end of each chapter."--Doody's Review Service This book provides students with an overview of the principles and concepts of epidemiology and illustrates the complementary relationship between population-based science and the care of patients Thoroughly updated, this new edition features epidemiologic implications of bio-terrorism, "Patient Profiles" within each chapter, and USMLE clinical vignettes within the "Study Question" section of each chapter.

This book allows readers to gain an in-depth understanding of the role of real-world data in pharmacoepidemiology, and highlights the strengths and limitations of the respective databases with regard to pharmacoepidemiological research. Over the past decade, the increasing use of real-world data in pharmacoepidemiological research has been accompanied by a growing recognition of the value of real-world evidence in clinical and regulatory decision-making. Electronic healthcare databases allow analyses of drug and vaccine utilization in routine care after approval, as well as investigations of their comparative effectiveness and safety. They are especially useful for the identification of rare risks and rare drug exposures over long periods of time, and as such sustainably

extend the basis for drug safety research. This book provides an introduction to the role of real--world data in pharmacoepidemiological research and the main developments in the last 15 years. It also offers a comprehensive overview of the general classification characteristics of databases, together with their strengths and limitations, and a detailed description of 21 individual databases, written by professionals who work with or maintain them.

This edition is the most updated since its inception, is the essential text for students and professionals working in and around epidemiology or using its methods. It covers subject areas - genetics, clinical epidemiology, public health practice/policy, preventive medicine, health promotion, social sciences and methods for clinical research.

Be ready to prescribe and administer drugs safely and effectively—and grasp all the vitals of pharmacology—with the fully updated Pharmacotherapeutics for Advanced Practice, 4th edition. Written by pharmacology nursing experts, this easy-to-read text offers proven frameworks for treating more than 50 common diseases and disorders. Learn how to identify disorders, review possible therapies, then prescribe and monitor drug treatment, accurately. Based on current evidence and real-life patient scenarios, this is the perfect pharmacology learning guide and on-the-spot clinical resource. Absorb the key principles and practical methods for accurate prescribing and monitoring, with . . . NEW chapter on Parkinson's disease, osteoarthritis, and rheumatoid arthritis NEW and updated therapies, and updated and additional case studies, with sample questions NEW content on the impacts of the Affordable Care Act Updated chapters on complementary and alternative medicine (CAM) and pharmacogenomics Updated evidence-based algorithms and drug tables – Listing uses, mechanisms, adverse effects, drug interactions, contraindications, and monitoring parameters, organized by drug class; quick access to generic and trade names and dosages Quick-scan format organizes information by body system Chapter features include: Brief overview – Pathophysiology of each disorder, and relevant classes of drugs Monitoring Patient Response section – What to monitor, and when Patient Education section – Includes information on CAM for each disorder Drug Overview tables – Usual dose, contraindications and side effects, and special considerations Algorithms – Visual cues on how to approach treatment Updated Recommended Order of Treatment tables – First-, second- and third-line drug therapies for each disorder Answers to Case Study Questions for each disorder – Strengthens critical thinking skills Selecting the Most Appropriate Agent section – The thought process for choosing an initial drug therapy Principles of Therapeutics unit – Avoiding medication errors; pharmacokinetics and pharmacodynamics; impact of drug interactions and adverse events; principles of pharmacotherapy for pediatrics, pregnancy/lactation, and geriatrics Disorders units – Pharmacotherapy for disorders in various body systems Pharmacotherapy in Health Promotion unit – Smoking cessation, immunizations, weight management Women's Health unit – Including contraception, menopause, and osteoporosis Integrative Approach to Patient Care unit – Issues to consider when presented with more than one diagnosis Standard pharmacotherapeutics text for nurse practitioners, students, and physician assistants Ancillaries – Case Study answers, multiple choice questions and answers for every chapter, PowerPoints, Acronyms List

Important new textbook gives students of pharmacy a one-stop resource to develop the necessary skills to find, read, understand, and evaluate drug literature. Epidemiological and mathematical concepts are explained clearly and concisely with real examples, not hypothetical case studies. Key concepts correlation and regression analysis, survival curve analysis, medical informatics, research process and experimental design are presented clearly and made relevant to the pharmacy arena.

"This new text is designed for a student or practitioner who is unfamiliar with "pharmacoeconomics." It provides a straightforward explanation of the essential pharmacoeconomics topics outlined by The Accreditation Council for Pharmacy Education (ACPE). It defines terminology used in research and covers the application of economic-based evaluation methods for pharmaceutical products and services. Users will find examples of how pharmacoeconomic evaluations relate to decisions that affect patient care and health-related quality of life"--Provided by publisher.

The vaccine used to protect humans against the anthrax disease, called Anthrax Vaccine Adsorbed (AVA), was licensed in 1970. It was initially used to protect people who might be exposed to anthrax where they worked, such as veterinarians and textile plant workers who process animal hair. When the U. S. military began to administer the vaccine, then extended a plan for the mandatory vaccination of all U. S. service members, some raised concerns about the safety and efficacy of AVA and the manufacture of the vaccine. In response to these and other concerns, Congress directed the Department of Defense to support an independent examination of AVA. The Anthrax Vaccine: Is It Safe? Does It Work? reports the studyâ€™s conclusion that the vaccine is acceptably safe and effective in protecting humans against anthrax. The book also includes a description of advances needed in main areas: improving the way the vaccine is now used, expanding surveillance efforts to detect side effects from its use, and developing a better vaccine.

Written by experts in the field of pharmacovigilance and patient safety, this concise resource provides a succinct, easy-to-digest overview of an increasingly critical area of medical safety. Drs. Thao Doan, Fabio Lievano, Mondira Bhattacharya, and Linda Scarazzini provide essential information for health care professionals, clinical researchers, and regulators who need a comprehensive, up-to-date source of information on the principles and practice of pharmacovigilance.

This book proposes immunogenomics, or immunopharmacogenomics, as the next-generation big science to uncover the role that the immune system plays in the pathogenesis of many diseases, by summarizing the importance of the deep sequencing of T-cell and B-cell receptors. Immunogenomics/immunopharmacogenomics, a genetic characterization of the immune system made possible by next-generation sequencing (NGS), will be important for the further understanding of the pathogenesis of various disease conditions. Abnormal immune responses in the body lead to development of autoimmune diseases and food allergies. Rejection of recipient cells and tissues, as well as severe immune reactions to donor cells, is also the result of uncontrolled immune responses in the recipient body. There have been many reports indicating that activated immune responses caused by the interaction of drugs and HLA are present in drug-induced skin hypersensitivity and liver toxicity. The importance of the host immune responses has been recognized in cancer treatments, not only for immunotherapy but also for cytotoxic agents and molecular targeted drugs. Hence, characterization of the T-cell receptor and B-cell receptor repertoire by means of NGS deep sequencing will ultimately make possible the identification of the molecular mechanisms that underlie various diseases and drug responses. In addition, this approach may contribute to the identification of antigens associated with the onset or progression of autoimmune diseases as well as food allergies. Although the germline alterations and somatic mutations have been extensively analyzed, changes or alterations of the immune responses during the course of various disease conditions or during various treatments have not been analyzed. It is also clear that computational analyses to draw meaningful inferences of functional recognition receptors on the immune cells remain a huge challenge.

The opioid overdose epidemic combined with the need to reduce the burden of acute pain poses a public health challenge. To address how evidence-based clinical practice guidelines for prescribing opioids for acute pain might help meet this challenge, Framing Opioid Prescribing Guidelines for Acute Pain: Developing the Evidence develops a framework to evaluate existing clinical practice guidelines for prescribing opioids for acute pain indications, recommends indications for which new evidence-based guidelines should be developed, and recommends a future research agenda to inform and enable specialty organizations to develop and disseminate evidence-based clinical practice guidelines for prescribing opioids to treat acute pain indications. The recommendations of this study will assist professional societies, health care organizations, and local, state, and national agencies to develop clinical practice guidelines for opioid prescribing for acute pain. Such a framework could inform the development of opioid prescribing guidelines and ensure systematic and standardized methods for evaluating evidence, translating knowledge, and formulating recommendations for practice.

The Textbook of Pharmacoepidemiology provides a streamlined text for evaluating the safety and effectiveness of medicines. It includes a brief introduction to pharmacoepidemiology as well as sections on data sources, methodology and applications. Each chapter includes key points, case studies and essential references. One-step resource to gain understanding of the subject of pharmacoepidemiology at an affordable price Gives a perspective on the subject from academia, pharmaceutical industry and regulatory agencies Designed for students with basic knowledge of epidemiology and public health Includes many case studies to illustrate pharmacoepidemiology in real clinical setting

Pharmacoepidemiology and Pharmacoeconomics - Concepts and Practice" discuss the principles and applications of both Pharmacoepidemiology and Pharmacoeconomics in Indian context in a simple and easy to understand manner with the support of illustrations and case studies.

REAL LIFE CLINICAL CASES FOR THE COURSE EXAMS AND USMLE STEP 1 "This extremely useful book reinforces the relationship between basic science and clinical medicine for students. It will help them either review or learn basic physiology as it applies to medicine, which should strengthen their diagnostic and therapeutic skills. 3 Stars."--Doody's Review Service You need exposure to clinical cases to pass course exams and ace the USMLE Step 1. Case Files: Physiology presents 50 real-life clinical cases illustrating essential concepts in microbiology. Each case includes and easy-to-understand discussion correlated to key basic science concepts, definitions of key terms, physiology pearls, and USMLE-style review questions. This interactive system helps you learn instead of memorize. 50 clinical cases, each with USMLE-style questions Clinical pearls highlighting key physiology concepts Primer on how to approach clinical problems and think like a doctor Proven learning system based on award-winning research boosts your shelf exam score

Despite considerable technological advances, the pharmaceutical industry is experiencing a severe innovation deficit, especially in the discovery of new drugs. Innovative Approaches in Drug Discovery: Ethnopharmacology, Systems Biology and Holistic Targeting provides a critical review and analysis of health, disease and medicine, and explores possible reasons behind the present crisis in drug discovery. The authors illustrate the benefits of systems biology and pharmacogenomics approaches, and advocate the expansion from disease-centric discovery to person-centric therapeutics involving holistic, multi-target, whole systems approaches. This book lays a path for reigniting pharmaceutical innovation through a disciplined reemergence of pharmacognosy, embracing open innovation models and collaborative, trusted public-private partnerships. With unprecedented advances made in the development of biomedically-relevant tools and technologies, the need is great and the time is now for a renewed commitment towards expanding the repertoire of medicines. By incorporating real-life examples and state-of-the-art reviews, this book provides valuable insights into the discovery and development strategies for professionals, academicians, and students in the pharmaceutical sciences. Analyzes the reasons behind historical drug failures to provide valuable insights on lessons learned Uses current scientific research to promote learning from traditional knowledge systems and through the integration of traditional and western medicines Discusses advances in technologies and systems biology to support the transition from formulation discovery to therapeutic discovery

Now in its fifth edition, Pharmacoepidemiology defines the discipline and provides the most comprehensive guidance of any book on the topic. Written by world renowned experts in the field, this valuable text surveys the research designs and sources of data available for pharmacoepidemiologic research, and provides descriptions of various automated data systems, along with the advantages and disadvantages of each. Incorporating perspectives from academia, industry and regulatory agencies, this book provides detailed insights into all aspects of pharmacoepidemiology.

As the focus on pharmaceuticals has broadened from concern for their cost and effectiveness to their real and potential risks and benefits, a critical question has been raised: whose responsibility is it to improve drug safety? In April 1990, this question became the theme for a conference at Wolfsberg, Switzerland, near the shores of Lake Constance. Called an "international dialogue conference" by its organizers, the meeting brought together leaders from the pharmaceutical industry, regulatory authorities, academia, medicine, consumer organizations and the media. Opening addresses were given by representatives of the Council for International Organizations of Medical Sciences (CIOMS), the International Federation of Pharmaceutical Manufacturers Associations (IFPMA), the Swiss International Pharmaceutical Agency, and the RAD-AR Consortium. This book documents the papers presented and discussions held at this conference, which took the topic of risks and benefits of drug therapy one step further to responsibility. It includes a rich menu of issues for those who care about the evaluation of drug therapy, the ethics behind it, the expectations of the patient, and the role of traditional and nontraditional drug safety communica tions. The ideas expressed here come from different parts of the world but relate to common drug safety problems, observations, and scientific assessments; they provide insights into innovative approaches, cautious changes, and desired actions. The papers in this volume are broadly divided into conceptual perspectives (ethics, how the knowledge about drug risks and benefits is generated and appraised, the expectations in drug safety) and operational perspectives (communication, discussion, and action).

This popular book is written by the award-winning teacher, Dr. Leon Gordis of the Bloomberg School of Public Health at Johns Hopkins University. He introduces the basic principles and concepts of epidemiology in clear, concise writing and his inimitable style. This book provides an understanding of the key concepts in the following 3 fully updated sections: Section I: The Epidemiologic Approach to Disease and Intervention; Section II: Using Epidemiology to Identify the Causes of Disease; Section III: Applying Epidemiology to Evaluation and Policy. Clear, practical graphs and charts, cartoons, and review questions with answers reinforce the text and aid in comprehension.

Utilizes new full-color format to enhance readability and clarity. Provides new and updated figures, references and concept examples to keep you absolutely current - new information has been added on Registration of Clinical Trials, Case-Cohort Design, Case-Crossover Design, and Sources and Impact of Uncertainty (disease topics include: Obesity, Asthma, Thyroid Cancer, Helicobacter Pylori and gastric/duodenal ulcer and gastric cancer, Mammography for women in their forties) - expanded topics include Person-time. Please note: electronic rights were not granted for several images in this product. Introduces both the underlying concepts as well as the practical uses of epidemiology in public health and in clinical practice. Systemizes learning and review with study questions in each section and an answer key and index. Illustrates textual information with clear and informative full-color illustrations, many created by the author and tested in the classroom.

Society, as a whole is getting older. Thanks to the extraordinary advances in technology and medicine, humans are now living longer than ever before, and are shifting the demographic make-up on a worldwide scale. As a result, more and more of us are living and engaging with an aging population in both our personal and professional lives, and there's a heightened demand for concrete research and advice on how to effectively provide care for this growing demographic. The Care of the Older brings together some of today's most experienced geriatric researchers to provide concrete answers for care providers of all kinds-doctors, nurses, therapists, nursing home workers, and spouses and children of elderly-who are spending more and more time working with our aging population.The Care for the Older Person is broken up into 23 chapters written by an esteemed group of doctors and researchers, each covering a different aspect of elder care.

A concise introduction to the study of medication utilization and safety in large populations of people Understanding Pharmacoepidemiology is a clear, engagingly written roadmap to mastering the important concepts and methods of pharmacoepidemiology. It explains what pharmacoepidemiology is, how pharmacoepidemiology studies are conducted, and how to interpret findings. You will learn the importance of pharmacoepidemiology, basic terminology used in research, and the data sources, study designs, and statistical analyses employed in pharmacoepidemiology research. Upon completing Understanding Pharmacoepidemiology you will have a better understanding of how to evaluate the associations between medication utilization and outcomes. Each chapter includes these valuable learning aids: A list of learning objectives Case studies or examples Discussion questions Tables and Figures You will also find a glossary of important words and terms. The content you need to understand the concepts and methods of pharmacoepidemiology: Introduction to Pharmacoepidemiology: Principles of Epidemiology Applied to the Study of Medication Use, Study Designs in Pharmacoepidemiology: Using Secondary Data in Pharmacoepidemiology; Biostatistics and Pharmacoepidemiology: Other Methodological Issues; Evaluation of Pharmacoepidemiology Literature; Medication Utilization Patterns; Medication Safety and Pharmacovigilance; and FDA Perspectives on Post-market Drug Safety.

A handbook sponsored by the I.E.A.

Antibiotics Simplified is a succinct guide designed to bridge knowledge gained in basic sciences courses with clinical practice in infectious diseases. Introductory chapters explain the rationale behind the treatment of infectious diseases, describe a system for selecting antimicrobial agents and briefly review basic microbiology. Later chapters present relevant characteristics of drug classes, emphasizing clinical pearls for individual agents, and also include content on antifungals. The concise nature of the text allows for emphasis on key points, allowing readers to extract the most important characteristics of anti-infective drugs from the larger mass of material that they learn from detailed pharmacology textbooks. This is an ideal handbook for students as well as practicing clinicians and pharmacists.