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KEY=PHARMACODYNAMICS - KAIYA DASHAWN

Journal of pharmacokinetics and pharmacodynamics

Asian journal of pharmacodynamics and pharmacokinetics

Pharmacokinetic-Pharmacodynamic Modeling and Simulation

Springer Science & Business Media *This is a second edition to the original published by Springer in 2006. The comprehensive volume takes a textbook approach systematically developing the field by starting from linear models and then moving up to generalized linear and non-linear mixed effects models. Since the first edition was published the field has grown considerably in terms of maturity and technicality. The second edition of the book therefore considerably expands with the addition of three new chapters relating to Bayesian models, Generalized linear and nonlinear mixed effects models, and Principles of simulation. In addition, many of the other chapters have been expanded and updated.*

Basic Pharmacokinetics and Pharmacodynamics

An Integrated Textbook and Computer Simulations

John Wiley & Sons *Updated with new chapters and topics, this book provides a comprehensive description of all essential topics in contemporary pharmacokinetics and pharmacodynamics. It also features interactive computer simulations for students to experiment and observe PK/PD models in action. • Presents the essentials of pharmacokinetics and pharmacodynamics in a clear and progressive manner • Helps students better appreciate important concepts and gain a greater understanding of the mechanism of action of drugs by reinforcing practical applications in both the book and the computer modules • Features interactive computer simulations, available online through a companion website at: https://web.uri.edu/pharmacy/research/rosenbaum/sims/ • Adds new chapters on physiologically based pharmacokinetic models, predicting drug-drug interactions, and pharmacogenetics while also strengthening original chapters to better prepare students for more advanced applications • Reviews of the 1st edition: "This is an ideal textbook for those starting out ... and also for use as a reference book ...." (International Society for the Study of Xenobiotics) and "I could recommend Rosenbaum's book for pharmacology students because it is written from a perspective of drug action . . . Overall, this is a well-written introduction to PK/PD .... " (British Toxicology Society Newsletter)*

Oxford Textbook of Oncology

Oxford University Press *This textbook provides current information on best practice in multidisciplinary cancer care. Divided into six sections, the contributors look at the aetiology of cancer, patient care, population health and thethe management of specific types of disease. Written and edited by internationally recognised leaders in the field, the new edition of the Oxford Textbook of Oncology has been fully revised and updated, taking into consideration the advancements in each of the major therapeutic areas, and representing the multidisciplinary management of cancer. Structured in six sections, the book provides an accessible scientific basis to the key topics of oncology, examining how cancer cells grow and function, as well as discussing the aetiology of cancer, and the general principles governing modern approaches to oncology treatment. The book examines the challenges presented by the treatment of cancer on a larger scale within population groups, and the importance of recognising and supporting the needs of individual patients, both during and after treatment. A series of disease-oriented, case-based chapters, ranging from acute leukaemia to colon cancer, highlight the various*

*approaches available for managing the cancer patient, including the translational application of cancer science in order to personalise treatment. The advice imparted in these cases has relevance worldwide, and reflects a modern approach to cancer care. The Oxford Textbook of Oncology provides a comprehensive account of the multiple aspects of best practice in the discipline, making it an indispensable resource for oncologists of all grades and subspecialty interests. Review: Each chapter is nicely illustrated with schemes, cartoons and images. The text, although written by top oncologists, is readily understandable for a non-expert. Thus, the textbook will no doubt be appreciated by a broader audience. * Recent Patents on Anti-Cancer Drug Discovery Vol. 11 Issue No. 4, Alexander Shtil * I recommend this book highly to all oncology and oncologists in training as a thorough, informative, and readable reference. Every large intuitional library and every oncology library should have it. * NEJM, 2002 * This comprehensive textbook of oncology is the first new major textbook on cancer to appear in a decade and is designed for a broad audience of clinicians, oncologists in training, and academics. The coverage is comprehensive...The overall appearance of the book is outstanding. It is a welcome combination of epidemiology, aspects of basic science, pharmacology and radiation therapy that trainees will fine a nice change...should enjoy a wide readership...because of its appealing design and comprehensive approach to oncology. It is the most user-friendly comprehensive text currently available. The pathology, basic science, epidemiology, and radiation therapy sections are all presented with extreme clarity. * Doody's Journal , 2002 * A landmark reference...It sets new standards for publishing in oncology offering a ground-breaking innovative approach to the filed combined with the quality, accuracy , and intellectual rigour you have come to expect from the world's most prestigious reference publisher. * Biomedicine and Pharmacotherapy, 2002 * Under new editorship, the second edition is far more than an updated version of the first...the prose in the Oxford Textbook is exemplary...this textbook is unique among its peers in giving the sense that the authors are addressing the reader personally...an exception level of quality...Respect for the evidence-based medicine is apparent throughout the text...illustrative and anatomical drawing...of remarkable high quality...excellent discussion of doctor-patient communication in relation OT genetic counselling, psychological issues, and terminal cancers. * JAMA, Volume 287, Issue 24, 2002 * The Oxford Textbook of Oncology covers virtually the entire spectrum of malignant diseases in adults and children. It meets very high editorial and production standards: the organization, illustrations, and eye-pleasing typography are outstanding... I have high praise for this textbook. * NEJM, Volume 347, Number 2, 2002 * Review from previous edition The Oxford Textbook of Oncology is a classic and fresh approach to the field. It is a must for all libraries and all those who like to have a single up-to-date reference book that contains sufficient detail for the clinician in all subspecialties: surgery and chapters are sufficiently details to provide a reference for trainees in the field. * Oncology, Volume 63, 2002 * The Oxford Textbook of Oncology is what it is meant to be: a textbook with comprehensive information of the actual status of oncology... an indispensable and attractive source of information. * Professor Jaak Ph. Janssens, European Journal of Cancer Prevention * This volume provides a comprehensive account of the multiple aspects of best practice in the discipline, making it an*

*indispensable resource for oncologists of all grades and subspecialty interests. * Anticancer Research Vol. 36 (2016) * An outstanding gift to the international scientific community... The new textbook is an excellent demonstration of this multifaceted and astonishingly variable problem, as well as of the latest achievements in its understanding and practical management. * Alexander A. Shtil, Recent Patents on Anticancer Drug Discovery * I would recommend anyone considering buying an oncology textbook, and particularly those who work in oncology support services, to consider this textbook as it is well set out, easy to read, easy to comprehend, and covers all of the important aspects of modern day oncology. * Dr Andrew Davies, Consultant in Palliative Medicine, Royal Surrey County Hospital; Review for Supportive Care in Cancer *

The Pharmacokinetics and Pharmacodynamics of Sildenafil Citrate

Pharmacokinetics and Pharmacodynamics of Biotech Drugs

Principles and Case Studies in Drug Development

Wiley-Blackwell *This first ever coverage of the pharmacokinetic and pharmacodynamic characteristics of biopharmaceuticals meets the need for a comprehensive book in this field. It spans all topics from lead identification right up to final-stage clinical trials. Following an introduction to the role of PK and PD in the development of biotech drugs, the book goes on to cover the basics, including the pharmacokinetics of peptides, monoclonal antibodies, antisense oligonucleotides, as well as viral and non-viral gene delivery vectors. The second section discusses such challenges and opportunities as pulmonary delivery of proteins and peptides, and the delivery of oligonucleotides. The final section considers the integration of PK and PD concepts into the biotech drug development plan, taking as case studies the preclinical and clinical drug development of tasidotin, as well as the examples of cetuximab and pegfilgrastim. The result is vital reading for all pharmaceutical researchers.*

Drug Delivery Approaches Perspectives from Pharmacokinetics and Pharmacodynamics

John Wiley & Sons *Explore this comprehensive discussion of the application of physiologically- and physicochemical-based models to guide drug delivery edited by leading experts in the field Drug Delivery Approaches: Perspectives from Pharmacokinetics and Pharmacodynamics delivers a thorough discussion of drug delivery options to achieve target profiles and approaches as defined by physical and pharmacokinetic models. The book offers an overview of drug absorption and physiological models, chapters on oral delivery routes with a focus on both PBPK and multiple dosage form options. It also provides an explanation of the pharmacokinetics of the formulation of drugs delivered by systemic transdermal routes. The distinguished editors have included practical and accessible resources that address the biological and delivery approaches to pulmonary and mucosal delivery of drugs. Emergency care settings are also described, with explorations of the relationship between parenteral infusion profiles and PK/PD. The future of drug delivery is addressed via discussions of virtual experiments to elucidate mechanisms and approaches to drug delivery and personalized medicine. Readers will also benefit from the inclusion of: A thorough introduction to the utility of mathematical models in drug development and delivery An exploration of the techniques and applications of physiologically based models to drug delivery Discussions of oral delivery and pharmacokinetic models and oral site-directed delivery A review of integrated transdermal delivery and pharmacokinetics in development An examination of virtual experiment methods for integrating pharmacokinetic, pharmacodynamic, and drug delivery mechanisms Alternative endpoints to pharmacokinetics for topical delivery Perfect for researchers, industrial scientists, graduate students, and postdoctoral students in the area of pharmaceutical science and engineering, Drug Delivery Approaches: Perspectives from Pharmacokinetics and Pharmacodynamics will also earn a place in the libraries of formulators, pharmacokineticists, and clinical pharmacologists.*

Pharmacokinetics in Drug Development

Advances and Applications

Springer *The topics chosen for this volume were selected because they are some of the current development or technological issues facing drug development project teams. They regard the practical considerations for assessment of selected special development populations. For example, they include characterization of drug disposition in pregnant subjects, for measuring arrhythmic potential, for analysis tumor growth modeling, and for disease progression modeling. Practical considerations for metabolite safety testing, transporter assessments, Phase 0 testing, and development and execution of drug interaction programs reflect current regulatory topics meant to address enhancement of both safety assessment and early decision-making during new candidate selection. Important technologies like whole body autoradiography, digital imaging and dried blood spot sample collection methods are introduced, as both have begun to take a more visible role in pharmacokinetic departments throughout the industry.*

Modeling in Biopharmaceutics, Pharmacokinetics and Pharmacodynamics

Homogeneous and Heterogeneous Approaches

Springer Science & Business Media *This book presents a novel modeling approach to biopharamceutics, pharmacokinetics and pharmacodynamic phenomena. It shows how advanced physical and mathematical methods can expand classical models in order to cover heterogeneous drug-biological processes and therapeutic effects in the body. Throughout, many examples are used to illustrate the intrinsic complexity of drug administration related phenomena in the human, justifying the use of advanced modeling methods.*

Pharmacokinetics and Pharmacodynamics of Biotech Drugs

Principles and Case Studies in Drug Development

John Wiley & Sons *This first ever coverage of the pharmacokinetic and pharmacodynamic characteristics of biopharmaceuticals meets the need for a comprehensive book in this field. It spans all topics from lead identification right up to final-stage clinical trials. Following an introduction to the role of PK and PD in the development of biotech drugs, the book goes on to cover the basics, including the pharmacokinetics of peptides, monoclonal antibodies, antisense oligonucleotides, as well as viral and non-viral gene delivery vectors. The second section discusses such challenges and opportunities as pulmonary delivery of proteins and peptides, and the delivery of oligonucleotides. The final section considers the integration of PK and PD concepts into the biotech drug development plan, taking as case studies the preclinical and clinical drug development of tasidotin, as well as the examples of cetuximab and pegfilgrastim. The result is vital reading for all pharmaceutical researchers.*

Pharmacokinetics and Pharmacodynamics in Adolescents

January 20-21, 1994

Applied Clinical Pharmacokinetics and Pharmacodynamics of Psychopharmacological Agents

Springer *This book is a comprehensive resource on psychotropic medications, detailing the latest methods for defining their characteristics, their use in different patient populations, and drug-drug interactions; an important collection of information forclinicians, students, researchers, and members of the pharmaceutical industry alike. The first section provides the foundational principles of these drugs. Mathematical modeling of parameters that affect their entryto,and exit from, the central nervous system (CNS) compartment are presented on an individual basis and then applied to target populations with specific disease states. Methods and characteristics that inform the transfer of these drugs from the laboratory bench to use in patient care are discussed, including imaging techniques, genetics and physiological barriers, such as the blood-brain barrier. The second section describes the characteristics of specific agents,nominally arranged intodifferent therapeutic*

categories and with reference crossover use in different disease states. The pharmacologic characteristics of different drug formulations are explored in the context of their ability to improve patient adherence. The third section focuses on drug-drug interactions.Psychotropic medications from different categories are frequently prescribed together,or alongside medications used to treat comorbid conditions, and the information provided is directly relevant to the clinic, as a result. The clinical application of pharmacokinetics and pharmacodynamics of CNS agents has made significant progress over the past 50 years and new information is reported by numerous publications in psychiatry, neurology, and pharmacology.Our understanding of the interrelationship between these medications, receptors, drug transporters, as well as techniques for measurement and monitoring their interactions,isfrequently updated. However, with information presented on a host of different platforms, and in different formats, obtaining the full picture can be difficult. This title aims to collate this information into a single source that can be easily interpreted and applied towards patient care by the clinical practitioner, and act as a reference for all others who have an interest in psychopharmacological agents.

Basic Pharmacokinetics and Pharmacodynamics

An Integrated Textbook and Computer Simulations

John Wiley & Sons *With its clear, straightforward presentation, this text enables you to grasp all the fundamental concepts of pharmacokinetics and pharmacodynamics. This will allow you to understand the time course of drug response and dosing regimen design. Clinical models for concentration and response are described and built from the basic concepts presented in earlier chapters. Your understanding of the material will be enhanced by guided computer exercises conducted on a companion website. Simulations will allow you to visualize drug behavior, experiment with different dosing regimens, and observe the influence of patient characteristics and model parameters. This makes the book ideal for self-study. By including clinical models of agonism, indirect drug effects, tolerance, signal transduction, and disease progression, author Sara Rosenbaum has created a work that stands out among introductory-level textbooks in this area.You'll find several features throughout the text to help you better understand and apply key concepts: Three fictitious drugs are used throughout the text to progressively illustrate the development and application of pharmacokinetic and pharmacodynamic principles Exercises at the end of each chapter reinforce the concepts and provide the opportunity to perform and solve common dosing problems Detailed instructions let you create custom Excel worksheets to perform simple pharmacokinetic analyses*

Because this is an introductory textbook, the material is presented as simply as possible. As a result, you'll find it easy to gain an accurate, working knowledge of all the core principles, apply them to optimize dosing regimens, and evaluate the clinical pharmacokinetic and pharmacodynamic literature.

Modeling in Biopharmaceutics, Pharmacokinetics and Pharmacodynamics

Homogeneous and Heterogeneous Approaches

Springer *The state of the art in Biopharmaceutics, Pharmacokinetics, and Pharmacodynamics Modeling is presented in this new second edition book. It shows how advanced physical and mathematical methods can expand classical models in order to cover heterogeneous drug-biological processes and therapeutic effects in the body. The book is divided into four parts; the first deals with the fundamental principles of fractals, diffusion and nonlinear dynamics; the second with drug dissolution, release, and absorption; the third with epirical, compartmental, and stochastic pharmacokinetic models, with two new chapters, one on fractional pharmacokinetics and one on bioequivalence; and the fourth mainly with classical and nonclassical aspects of pharmacodynamics. The classical models that have relevance and application to these sciences are also considered throughout. This second edition has new information on reaction limited models of dissolution, non binary biopharmaceutic classification system, time varying models, and interface models. Many examples are used to illustrate the intrinsic complexity of drug administration related phenomena in the human, justifying the use of advanced modeling methods. This book will appeal to graduate students and researchers in pharmacology, pharmaceutical sciences, bioengineering, and physiology. Reviews of the first edition: "This book presents a novel modelling approach to biopharmaceutics, pharmacokinetics and pharmacodynamic phenomena. This state-of-the-art volume will be helpful to students and researchers in pharmacology, bioengineering, and physiology. This book is a must for pharmaceutical researchers to keep up with recent developments in this field." (P. R. Parthasarathy, Zentralblatt MATH, Vol. 1103 (5), 2007) "These authors are the unique (or sole) contributors in this area that are working on these questions and bring a special expertise to the field that is now being recognized as essential to understanding biological system and kinetic/dynamic characteristics in drug development...This text is an essential primer for those who would envision the incorporation of heterogeneous approaches to systems where homogeneous approaches are not sufficient to describe the system." (Robert R. Bies, Journal of Clinical Pharmacology, Vol. 46, 2006)*

Pharmacokinetic and Pharmacodynamic Data Analysis: Concepts and Applications, Third Edition

CRC Press *This is a revised and very expanded version of the previous second edition of the book. "Pharmacokinetic and Pharmacodynamic Data Analysis" provides an introduction into pharmacokinetic and pharmacodynamic concepts using simple illustrations and reasoning. It describes ways in which pharmacodynamic and pharmacodynamic theory may be used to give insight into modeling questions and how these questions can in turn lead to new knowledge. This book differentiates itself from other texts in this area in that it bridges the gap between relevant theory and the actual application of the theory to real life situations. The book is divided into two parts; the first introduces fundamental principles of PK and PD concepts, and principles of mathematical modeling, while the second provides case studies obtained from drug industry and academia. Topics included in the first part include a discussion of the statistical principles of model fitting, including how to assess the adequacy of the fit of a model, as well as strategies for selection of time points to be included in the design of a study. The first part also introduces basic pharmacokinetic and pharmacodynamic concepts, including an excellent discussion of effect compartment (link) models as well as indirect response models. The second part of the text includes over 70 modeling case studies. These include a discussion of the selection of the model, derivation of initial parameter estimates and interpretation of the corresponding output. Finally, the authors discuss a number of pharmacodynamic modeling situations including receptor binding models, synergy, and tolerance models (feedback and precursor models). This book will be of interest to researchers, to graduate students and advanced undergraduate students in the PK/PD area who wish to learn how to analyze biological data and build models and to become familiar with new areas of application. In addition, the text will be of interest to toxicologists interested in learning about determinants of exposure and performing toxicokinetic modeling. The inclusion of the numerous exercises and models makes it an excellent primary or adjutant text for traditional PK courses taught in pharmacy and medical schools. A diskette is included with the text that includes all of the exercises and solutions using WinNonlin.*

Rowland and Tozer's Clinical

Pharmacokinetics and Pharmacodynamics: Concepts and Applications

Lippincott Williams & Wilkins *Updated with the latest clinical advances, Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics, Fifth Edition , explains the relationship between drug administration and drug response, taking a conceptual approach that emphasizes clinical application rather than science and mathematics. Bringing a real-life perspective to the topic, the book simplifies concepts and gives readers the knowledge they need to better evaluate drug applications.*

Handbook of Anticancer Pharmacokinetics and Pharmacodynamics

Springer Science & Business Media *Leading investigators synthesize the entire laboratory and clinical process of developing anticancer drugs to create a single indispensable reference that covers all the steps from the identification of cancer-specific targets to phase III clinical trials. These expert authors provide their best guidance on a wide variety of issues, including clinical trial design, preclinical screening, and the development and validation of bioanalytic methods. The chapters on identifying agents to test in phase III trials and on trial design for the approval of new anticancer agents offer a unique roadmap for moving an agent to NDA submission.*

ADME and Translational Pharmacokinetics / Pharmacodynamics of Therapeutic Proteins

Applications in Drug Discovery and

Development

John Wiley & Sons *With an emphasis on the fundamental and practical aspects of ADME for therapeutic proteins, this book helps readers strategize, plan and implement translational research for biologic drugs. • Details cutting-edge ADME (absorption, distribution, metabolism and excretion) and PKPD (pharmacokinetic / pharmacodynamics) modeling for biologic drugs • Combines theoretical with practical aspects of ADME in biologic drug discovery and development and compares innovator biologics with biosimilar biologics and small molecules with biologics, giving a lessons-learned perspective • Includes case studies about leveraging ADME to improve biologics drug development for monoclonal antibodies, fusion proteins, pegylated proteins, ADCs, bispecifics, and vaccines • Presents regulatory expectations and industry perspectives for developing biologic drugs in USA, EU, and Japan • Provides mechanistic insight into biodistribution and target-driven pharmacokinetics in important sites of action such as tumors and the brain*

Systems Pharmacology and Pharmacodynamics

Springer *While systems biology and pharmacodynamics have evolved in parallel, there are significant interrelationships that can enhance drug discovery and enable optimized therapy for each patient. Systems pharmacology is the relatively new discipline that is the interface between these two methods. This book is the first to cover the expertise from systems biology and pharmacodynamics researchers, describing how systems pharmacology may be developed and refined further to show practical applications in drug development. There is a growing awareness that pharmaceutical companies should reduce the high attrition in the pipeline due to insufficient efficacy or toxicity found in proof-of-concept and/or Phase II studies. Systems Pharmacology and Pharmacodynamics discusses the framework for integrating information obtained from understanding physiological/pathological pathways (normal body function system vs. perturbed system due to disease) and pharmacological targets in order to predict clinical efficacy and adverse events through iterations between mathematical modeling and experimentation.*

Chronopharmacology and Chronotherapeutics

Pediatric Clinical Pharmacology

Springer Science & Business Media *The objective of this volume is to give an overview of the present state of the art of pediatric clinical pharmacology including developmental physiology, pediatric-specific pathology, special tools and methods*

for development of drugs for children (assessment of efficacy, toxicity, long-term safety etc.) as well as regulatory and ethical knowledge and skills. In the future, structural and educational changes have to lead back to a closer cooperation and interaction of pediatrics with (clinical) pharmacology and pharmacy.

Pharmacokinetic Evaluation and Modeling of Clinically Significant Drug Metabolites

Frontiers Media SA

Paediatric Clinical Pharmacology

CRC Press *The treatment of children with medicinal products is an important scientific area. It is recognized that many medicines that are used extensively in pediatric patients are either unlicensed or off-label. This textbook will help pediatric health professionals effectively treat children with the most appropriate medicine with minimal side effects.*

Pharmacokinetics and Pharmacodynamics of Pre-Exposure Prophylaxis Against HIV

Frontiers Media SA

Pharmacokinetics in Drug Development

Advances and Applications, Volume 3

Springer Science & Business Media *The topics chosen for this volume were selected because they are some of the current development or technological issues facing drug development project teams. They regard the practical considerations for assessment of selected special development populations. For example, they include characterization of drug disposition in pregnant subjects, for measuring arrhythmic potential, for analysis tumor growth modeling, and for disease progression modeling. Practical considerations for metabolite safety testing, transporter assessments,*

Phase 0 testing, and development and execution of drug interaction programs reflect current regulatory topics meant to address enhancement of both safety assessment and early decision-making during new candidate selection. Important technologies like whole body autoradiography, digital imaging and dried blood spot sample collection methods are introduced, as both have begun to take a more visible role in pharmacokinetic departments throughout the industry.

Kinetics and Dynamics of Intravenous Anesthetics

Springer Science & Business Media *Many drugs used in current anesthetic practice are administered intravenously. An appreciation of their kinetics and dynamics is of great assistance in determining the most appropriate drug to use, and optimal dosage regimens for any given patient. This book is specially oriented to the requirements of anesthesiologists. It will enable the student of those subjects to gain enough knowledge to make these subjects usable in daily anesthetic practice. As such it is intermediate in difficulty between mathematically oriented texts, and those which only offer a very qualitative understanding of these subjects. Practical applications and examples of the uses to which kinetic and dynamic principles can be put in daily practice are emphasized and illustrated. Basic principles and techniques with which the reader can perform kinetic and dynamic calculations are explained simply and demonstrated in detail using examples derived from clinical practice. Two appendices provide kinetic and dynamic data on the most commonly used anesthetic drugs. The last chapters use the principles discussed in the first chapters to show how variations of normal physiology and disease affect drug kinetics and dynamics. This is especially valuable to the clinician as it enables clinically useful, albeit qualitative, predictions to be made of the direction of any change of kinetic and dynamic parameters of drugs due to these factors.*

Neurological Clinical Pharmacology

Springer Science & Business Media *In recent years there has been much interest in clinical pharmacology and its ap plication to the treatment of disease, including disease of the nervous system. At the same time there have been major advances in basic neuropharmacology. The aim of this book is to integrate clinical pharmacology with basic neuropharmacology and clinical neurology. The book discusses, in the light of clinical pharmacology, and par ticularly pharmacokinetics, the treatment of those disorders of the nervous system that are conventionally managed by the clinical neurologist. Matters pertaining to psychopharmacology have been deliberately excluded except in so far as they impinge on ordinary clinical neurological practice. The extent to which various disorders have been considered has depended partly on their importance to the clinical neurologist practising in non-tropical areas, and partly on the amount of data available relating to the relevant drug treatment. Thus the book is directed at clinical neurologists and those intending to practise clinical neurology. However it also contains material of in terest to the*

general physician, paediatrician, psychiatrist and clinical pharmacologist. Although the emphasis in this book is on drug treatment, to preserve balance it has seemed desirable to discuss briefly certain non-pharmacological aspects of thera peutics. The orderly methodical approach used in the book offers two possible advan tages: first, once the reader is familiar with the approach (see Guide to the Use of This Book, p.

Pharmacokinetics Made Easy

McGraw Hill Professional *Pharmacokinetics Made Easy 1Rpresents the complex subject of pharmacokinetics in a simple, easy-to-understand manner, lending itself to a wide audience including medical practitioners, health professionals and students of pharmacology, medicine and nursing. The physiological approach adopted in the book allows clinical issues in drug therapy to be addressed, making it directly applicable to practice situations. The chapters in this book were initially published as a series of articles inAustralian Prescriberto assist practitioners in drug dosing and therapy. In this revised edition, the book has been updated according to recent developments and a new chapter called 'How to Determine the Pharmacokinetic Parameters of a Drug' added. Each chapter also has a new feature-a list of key points summarising the content to improve accessibility and understanding.*

Introduction to Pharmacokinetics and Pharmacodynamics

The Quantitative Basis of Drug Therapy

Lippincott Williams & Wilkins *This unique text helps students and healthcare professionals master the fundamentals of pharmacokinetics and pharmacodynamics. Written by distinguished international experts, it provides readers with an introduction to the basic principles underlying the establishment and individualization of dosage regimens and their optimal use in drug therapy. Up-to-date examples featuring currently prescribed drugs illustrate how pharmacokinetics and pharmacodynamics relate to contemporary drug therapy. Study problems at the end of each chapter help students and professionals gain a firm grasp of the material covered within the text.*

Clinical Pharmacy and Therapeutics

A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed

Pharmacometric Issues in Modeling and Simulation

Metoprolol Population Pharmacokinetics and Pharmacodynamics in Healthy Subjects

Antimicrobial Pharmacodynamics in Theory and Clinical Practice

CRC Press *This up-to-the-minute reference explores the pharmacodynamics of antimicrobials as well as the absorption, distribution, metabolism, and elimination of the major classes of antimicrobials-covering new agents such as ketolide antibiotics and highlighting the pharmacodynamic relationship between drug concentration and antimicrobial activity, as well as the relationship of pharmacodynamics to bacterial resistance. Contains specific examples and practical applications for the design of effective dosing regimens! Written by recognized experts in the field, Antimicrobial Pharmacodynamics in Theory and Clinical Practice describes the pharmacodynamic properties of all major classes of antibiotics parameters for microbiological activity of antimicrobial agents such as minimal inhibitory concentration (MIC) and minimal bactericidal concentration (MBC) serum/tissue protein binding and penetration rates differences between in vivo and in vitro postantibiotic effects (PAE) and more! With nearly 1000 references, tables, drawings, and illustrations, Antimicrobial Pharmacodynamics in Theory and Clinical Practice is a state-of-the-art reference for infectious disease specialists, pulmonologists, pharmacists, pharmacologists, microbiologists, biological chemists, epidemiologists, internists, and students in these disciplines.*

Antiplatelet Therapy in Cardiovascular Disease

John Wiley & Sons *Edited by one of the world's leading interventional cardiologistsand educators, this new book is created with an eye on giving thereader a solid, practical and clinically-focused understanding ofthis important class of drugs,*

from basic science to a clear-headeddiscussion of complex topics such as combination therapies,drug-drug interactions, and platelet resistance. This important new book: Begins with a concise but thorough discussion of plateletbiology and pathophysiology so that readers understand how thesetherapies work and why they can also produce such a varied range ofcomplications, from minor gastrointestinal upset, to potentiallylife-threatening conditions such as neutropenia, a criticalshortage of white blood cells. Thoroughly covers platelet function testing, including new,novel techniques. Clarifies current best-practices regarding the use ofantiplatelet agents in both chronic and acute cardiovasculardisease Reviews of all types of antiplatelet agents – fromaspirin to recently approved drugs – including indications,clinical outcomes, and side effects/complications Written by an international who's-who of experts in the field,Antiplatelet Therapy also includes an entire section covering theuse of antiplatelet drugs in PCIs, including percutaneous valverepair, which makes this text particularly essential toInterventional Cardiologists.

Emerging Bacterial Pathogens

Karger Medical and Scientific Publishers *One of the greatest public health achievements during the last century was the reduction of infectious diseases due to public sanitation measures, vaccines and antibiotics. However, in recent years, several new infectious diseases have been identified, and since the appearance of the first penicillin-resistant bacteria, 'old diseases' have reemerged. Volume 8 of Contributions to Microbiology provides an overview of a great variety of bacterial pathogens representative of those groups and discusses the underlying reasons for disease emergence. The various chapters clearly illustrate how changes in society, technology and the environment result in the appearance or spread of bacterial pathogens. Not only bacterial human pathogens, but also bacterial plant pathogens are an issue and serve as an example of how bacteria can adapt very specifically to a particular host environment. As a consequence of this adaptability, the available antimicrobial drugs have become less effective against many infectious agents; the reasons for this are thoroughly discussed in the book. There is an urgent need for the development of new antibiotics. The volume therefore concludes with a chapter on modern approaches which allow a rational design of a new generation of antimicrobial drugs less likely to become ineffective or cause broad-spectrum drug resistance.*

Handbook of Pharmacokinetic/Pharmacodynamic Correlation

CRC Press *Combining the established disciplines of pharmacokinetics (PK), the relationship between drug concentration and time, and pharmacodynamics (PD), the*

relationship between drug effects and concentration, this handbook examines the relevant relationship between drug effects and time. It provides a systematic overview of how PK is linked to PD, introduces the basic concepts of PK-PD modeling and presents the underlying theory behind it, and discusses the specific aspects of PK-PD modeling for various classes of drugs.

Pharmacokinetics and Toxicokinetic Considerations - Vol II

Academic Press *Pharmacokinetics and Toxicokinetic Considerations explains the central principles, cutting-edge methodologies, and incipient thought processes applied to toxicology research. As part of the Advances in Pharmaceutical Product Development and Research series, the book provides expert literature on dose, dosage regimen and dose adjustment, medication errors, and approaches for its prevention, the concept of pharmacotherapy, and managed care in clinical interventions. It expounds on strategies to revamp the pharmacokinetics of the drug and the factors affecting the stability of drugs and their metabolites in biological matrices. Finally, the book offers focused elaborations on various bioanalytical methods for bioavailability and bioequivalence assessment and integrates the wide-ranging principles and concepts shared by toxicokinetics and pharmacodynamics as mutual crosstalk rather than isolated observations. It will be helpful to researchers and advanced students working in the pharmaceutical, cosmetics, biotechnology, food, and related industries including toxicologists, pharmacists, and pharmacologists. Allows readers to systematically integrate up-to-date research findings into their laboratory work Presents focused explorations of bioanalytical methods for bioavailability and bioequivalence assessment Provides clinical applications of concepts*

Antimicrobial Therapy

Lippincott Williams & Wilkins

Study Guide to Accompany Drug Therapy in Nursing

Lippincott Williams & Wilkins *The perfect companion to Drug Therapy in Nursing, Second Edition, this invaluable study partner delivers guidance on individual patient management from a nurse-as-caregiver perspective, helping you build essential knowledge and develop sound practice skills. Knowledge-building features include Top Ten Things to Know lists, key terms, multiple-choice questions, case studies, and critical thinking challenges. A "Just the Facts" feature helps deepen your understanding of essential drugs, their actions, indications, contraindications, and cautions. A "Patients Please" feature helps you put the needs of the patient first, with facts on core patient variables.*

Metabolism, Pharmacokinetics and Toxicity of Functional Groups

Impact of Chemical Building Blocks on ADMET

Royal Society of Chemistry *Until now, the area of drug metabolism and pharmacokinetics has been lacking in texts written for the Medicinal Chemist. This outstanding book, aimed at postgraduate medicinal chemists and those working in industry, fills this gap in the literature. Written by medicinal chemists and ADMET scientists with a combined experience of around 300 years, this aid to discovering drugs addresses the absorption, distribution, metabolism, excretion and toxicity (ADMET) issues associated with drugs. The book starts by describing drug targets and their structural motifs before moving on to explain ADMET for the medicinal chemist. It is the functional groups which most profoundly influence the drug molecules of which they form a part. They characterise the pharmacology, are essential to the activity, and alter the ADMET characteristics of each drug. Their effects follow a pattern, thus allowing medicinal chemists to predict and overcome potential challenges. For this reason, the Editors have taken the unique approach of dividing the remainder of the book into chapters which each focus on a different functional group. They describe drugs containing the functional group under consideration, explain why the group is there, and outline its physicochemical properties before going on to detail the ADMET issues. Where possible, prodrugs and bioisosteres, which may give alternative ADMET outcomes, are described. The chapters cross refer where similar matters are covered but individual chapters can be used in a stand alone manner. The book ends with a discussion of future targets and chemistry needs.*