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Applied Clinical Pharmacokinetics 3/E

Holland-Frei Cancer Medicine

Concepts in Clinical Pharmacokinetics

Basic Pharmacokinetics and Pharmacodynamics

Transforming Proteins and Genes into Drugs

The most current, hands-on book in the field, Applied Clinical Pharmacokinetics The perfect textbook for pharmacy students learning the clinical application of pharmacokinetics, which is the mathematical tools for modifying doages. Students like that each chapter includes sample problems throughout the chapter, with a ton of practice problems at the end. Answers for the practice problems are in the back, but not detailed like the sample problems) *Changes in the 3/e includes: *All chapters updated and revised, as needed, including critical new references *Antibiotic individualization and monitoring sections increases use of pharmacodynamic parameters (Cmax/MIC, AUC24/MIC, Time above MIC) in addition to pharmacokinetic parameters to adjust dosages *Anticonvulsants section includes 5 new agents (Fosphenytoin, Lamotrigine, Levetiracetam, Oxcarbazepine, Eslicarbazepine)

*Immunosuppressants section includes 1 new agent (Sirolimus), About the Book Text focuses on the latest standardized techniques and approaches to patient-specific dosing and provides up-to-date information on more recently monitored drugs. Features Clear, useful coverage of drug dosing and drug monitoring Clear and concise summary of pharmacokinetic and pharmacodynamic concepts Practical help with calculations and equations Focus on the latest standardized techniques and approaches to patient-specific dosing Up-to-date information on more recently monitored drugs Essential information on drug dosing in special populations, including patients with renal and hepatic disease, obesity, and congestive heart failure All the information practitioners need on drug categories such as antibiotics, cardiovascular agents, anticonvulsants, and immunosuppressants Full coverage of drugs such as Aminoglycosides, Vancomycin, Digoxin, Phenytoin, Carbamazepine, Theophylline, Cyclosporine, Tacrolimus, and Lithium Student friendly approach to teaching pharmacokinetics--sample problems embedded into the text to allow for students to apply what they are learning. .

This updated introduction to the clinical applications of pharmacokinetics looks at gastrointestinal absorption, prolonged release medication, and drug disposition. The effects of disease, weight, age, sex and genetic factors on pharmacokinetic variability and drug response are detailed. Bioequivalence and regulatory considerations for generic drug.

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.

Essentials of Biopharmaceutics and Pharmacokinetics Kar ' s Essentials of Biopharmaceutics and Pharmacokinetics deals with how a drug exerts its action in the human body through the fundamentals of absorption, distribution, metabolism and excretion. The book adopts a growth-oriented format and design that is developed systematically and methodically. The book interrelates five different sections: Section 1 Biopharmaceutics and Pharmacokinetics: What Do They Mean? Section 2 Biopharmaceutics Section 3 Pharmacokinetics Section 4 Clinical Pharmacokinetics Section 5 Bioavailability and Bioequivalence Each section starts with a basic theory and fields of application, focuses on model-independent pharmacokinetic analyses, expatiates various biopharmaceutical aspects of dosage form and evaluation, provides an altogether new approach in understanding both dosage regimen design and individualization, and explains modification in drug molecules related to the pharmacokinetics. Undoubtedly, the unique blend of fundamental principles and latest breakthroughs in the field will certainly provide sufficient subject matter to the students of pharmacy, pharmacology, medicinal chemistry scientists, who need a simple as well as detailed introduction in theory and application.

Biotechnology and Biopharmaceuticals

Applied Biopharmaceutics & Pharmacokinetics, Seventh Edition

Applied Biopharmaceutics & Pharmacokinetics, Eighth Edition

Handbook of Basic Pharmacokinetics-- Including Clinical Applications

Essential Pharmacokinetics

Lymphatic Transport of Drugs provides a thorough review of the determinants that affect the uptake and delivery of drugs and xenobiotics to the lymphatics. Factors affecting the transport and delivery of lipophilic drugs through the lymph after oral administration, lymphatic transport of polar drugs and macromolecules after gastrointestinal dosing, transport of drugs into the lymph after parenteral administration, and particulate drug delivery systems are among the topics examined in this volume. Lymphatic Transport of Drugs is primarily intended for pharmaceutical scientists who are attempting to alter the delivery of current therapeutic agents through formulation of prodrugs, as well as for researchers designing new drugs for lymph delivery.

Biopharmaceutics and Pharmacokinetics Considerations examines the history of biopharmaceutics and pharmacokinetics. The book provides a biopharmaceutics and pharmacokinetics approach to addressing issues in formulation development and ethical considerations in handling animals. Written by experts in the field, this volume within the Advances in Pharmaceutical Product Development and Research series deepens understanding of biopharmaceutics and pharmacokinetics within drug discovery and drug development. Each chapter delves into a particular aspect of this fundamental field to cover the principles, methodologies and technologies employed by pharmaceutical scientists, researchers and pharmaceutical industries to study the chemical and physical properties of drugs and the biological effects they produce. Examines the most recent developments in biopharmaceutics and pharmacokinetics for pharmaceutical sciences Covers the principles, methodologies and technologies of biopharmaceutics and pharmacokinetics Focuses on the pharmaceutical sciences, but also encompasses aspects of toxicology, neuroscience, environmental sciences and nanotechnology

Clinical Pharmacokinetics: The MCQ Approach is a self-teaching guide to the subject. The reader is guided through the principles of the subject as they are applied to increasingly complex situations. The volume contains a number of single and multiple-choice questions, many requiring graphing and calculation techniques and is intended as an instructional tool both for the student and practicing professional. The volume aims to test to reader's analytical skills when presented with experimental data. It will be of interest to students of pharmacy, clinical pharmacology and biopharmaceutics as well as to instructors in those subjects, both in the teaching of the subject and in the design of examination material.

A comprehensive textbook on the theoretical and practical applications of biopharmaceutics and pharmacokinetics The field's leading text for more than three decades Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition provides you with a basic understanding of the principles of biopharmaceutics and pharmacokinetics and applies these principles to drug product development, drug product performance and drug therapy. The revised and updated sixth edition is unique in teaching basic concepts that relate to understanding the complex issues associated with safe and efficacious drug therapy. Written by authors who have both academic and clinical experience, Applied Biopharmaceutics & Pharmacokinetics will help you to: Understand the basic concepts in biopharmaceutics and pharmacokinetics. Use raw data and derive the pharmacokinetic models and parameters that best describe the process of drug absorption, distribution, and elimination Critically evaluate biopharmaceutic studies involving drug product equivalency and unequivalency Design and evaluate dosage regimens of drugs, using pharmacokinetic and biopharmaceutic parameters Detect potential clinical pharmacokinetic problems and apply basic pharmacokinetic principles to solve them Practical problems and clinical examples with discussions are included in each chapter to help you apply these principles to patient care and drug consultation situations. Chapter Objectives, Chapter Summaries, and Frequently Asked Questions along with additional application questions appear within each chapter to identify and focus on key concepts. Most of the chapters have been revised to reflect our current understanding of drug product performance, bioavailability, bioequivalence, pharmacokinetics, pharmacodynamics, and drug therapy.

The MCQ Approach

Clinical Trials of Drugs and Biopharmaceuticals

Textbook of Biopharmaceutics and Clinical Pharmacokinetics

Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition

Applied Biopharmaceutics and Pharmacokinetics

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.

Explore the latest research in biopharmaceutics from leading contributors in the field In Biopharmaceutics - From Fundamentals to Industrial Practice, distinguished Scientists from the UK's Academy of Pharmaceutical Sciences Biopharmaceutica Focus Group deliver a comprehensive examination of the tools used within the field of biopharmaceutics and their applications to drug development. This edited volume is an indispensable tool for anyone seeking to better understand the field of biopharmaceutics as it rapidly develops and evolves. Beginning with an expansive introduction to the basics of biopharmaceutics and the context that underpins the field, the included resources go on to discuss how biopharmaceutics are integrated into product development within the pharmaceutical industry. Explorations of how the regulatory aspects of biopharmaceutics function, as well as the impact of physiology and anatomy on the rate and extent of drug absorption, follow. Readers will find insightful discussions of physiologically based modeling as a valuable asset in the biopharmaceutics toolkit and how to apply the principles of the field to special populations. The book goes on to discuss: Thorough introductions to biopharmaceutics, basic pharmacokinetics, and biopharmaceutics measures Comprehensive explorations of solubility, permeability, and dissolution Practical discussions of the use of biopharmaceutics to inform candidate drug selection and optimization, as well as biopharmaceutics tools for rational formulation design In-depth examinations of biopharmaceutics classification systems and regulatory biopharmaceutics, as well as regulatory biopharmaceutics and the impact of anatomy and physiology Perfect for professionals working in the pharmaceutical and biopharmaceutical industries, Biopharmaceutics - From Fundamentals to Industrial Practice is an incisive and up-to-date resource on the practical, pharmaceutical applications of the field.

Biotechnology and Biopharmaceuticals: Transforming Proteins and Genes into Drugs, Second Edition addresses the pivotal issues relating to translational science, including preclinical and clinical drug development, regulatory science, pharmaco-economics and cost-effectiveness considerations. The new edition also provides an update on new proteins and genetic medicines, the translational and integrated sciences that continue to fuel the innovations in medicine, as well as the new areas of therapeutic development including cancer vaccines, stem cell therapeutics, and cell-based therapies.

Fundamentals of Clinical Pharmacokinetics

Clinical Pharmacokinetics

Applied Biopharmaceutics and Pharmacokinetics, Seventh Edition

Biopharmaceutics and Clinical Pharmacokinetics

An Introduction