

Vinod P. Shah · Howard I. Maibach
John Jenner *Editors*

Topical Drug Bioavailability, Bioequivalence, and Penetration

Second Edition

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Topical Drug Bioavailability Bioequivalence And Penetration 2015 01 3

Nina Dragičević, Howard Maibach



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Topical Drug Bioavailability, Bioequivalence, and Penetration Vinod P. Shah, Howard I. Maibach, John Jenner, 2015-01-30 This authoritative volume explores advances in the techniques used to measure percutaneous penetration of drugs and chemicals to assess bioavailability and bioequivalence and discusses how they have been used in clinical and scientific investigations Seven comprehensive sections examine topics including in vitro drug release topical drugs products clinical studies and guidelines and workshop reports among others The book also describes how targeted transdermal drug delivery and more sophisticated mathematical modelling can aid in understanding the bioavailability of transdermal drugs The first edition of this book was an important reference guide for researchers working to define the effectiveness and safety of drugs and chemicals that penetrated the skin This second edition contains cutting edge advances in the field and is a key resource to those seeking to define the bioavailability and bioequivalence of percutaneously active compounds to improve scientific and clinical investigation and regulation

Drug Metabolism and Pharmacokinetics Liang Shen, WuXi AppTec DMPK, 2025-06-03 Practical state of the art pharmacokinetic research methods ideas advancements applications and strategies Drawing on a wealth of extensive practical experience and theoretical research Drug Metabolism and Pharmacokinetics encapsulates the most recent advancements and illustrative applications in the field Sixty eight relatively independent yet interconnected articles are included each offering a unique perspective and providing in depth interpretation Readers can either read systematically or select specific topics of interest from the table of contents Basic concepts frontier advancements DMPK research strategies and technical methods are covered for novel drug modalities and therapeutics in different disease areas The book encompasses a wide range of application and validation cases for DMPK research including studies in in vitro ADME in vivo pharmacokinetics metabolite profiling and identification radiolabeled ADME and bioanalysis Case studies showing the application of topics covered are included throughout along with valuable insights into problem solving and critical thinking Written by a team of scientists specializing in DMPK research from the DMPK Department of WuXi AppTec Drug Metabolism and Pharmacokinetics discusses sample topics including ADME properties metabolite identification and bioanalytical strategies for oligonucleotide drugs Strategies and challenges in the determination of drug to antibody ratio DAR values of antibody drug conjugates ADCs Breaking barriers in CNS drug development with intrathecal and intracerebroventricular administration Application and detection techniques of biomarkers in drug development Flux dialysis method for assessing plasma protein binding of high protein binding drugs Drug Metabolism and Pharmacokinetics is an essential forward thinking reference on the subject for pharmacy students pharmaceutical industry researchers and DMPK scientists especially those exploring novel drug modalities

Handbook of Pharmaceutical Manufacturing Formulations, Third Edition Sarfaraz K. Niazi, 2019-12-06 The Handbook of Pharmaceutical Manufacturing Formulations Third Edition Volume One Compressed Solid Products is an authoritative and practical guide to

the art and science of formulating drugs for commercial manufacturing With thoroughly revised and expanded content this first volume of a six volume set compiles data from FDA new drug applications patent applications and other sources of generic and proprietary formulations to cover the broad spectrum of GMP formulations and issues in using these formulations in a commercial setting A must have collection for pharmaceutical manufacturers educational institutions and regulatory authorities this is an excellent platform for drug companies to benchmark their products and for generic companies to formulate drugs coming off patent

Dermal Absorption and Decontamination Aileen M. Feschuk, Rebecca M. Law, Howard I. Maibach, 2022-10-05 This book is a comprehensive volume dedicated to dermal absorption and decontamination Given risks including chemical warfare and accidents with toxic industrial chemicals studies involving dermal absorption and decontamination are of the utmost importance Each chapter consists of a systematic review on an important dermal absorption and or decontamination topic Chapters address key issues such as the general acceptance of water soap and water as the gold standard of dermal decontamination despite the fact that it commonly provides incomplete decontamination and may even result in a wash in effect an increased penetration of contaminant Decontamination with other substances e g RSDL is explored and factors that affect dermal penetration e g anatomical variation are summarized All systematic reviews are comprehensive and up to date *Dermal Absorption and Decontamination* will be useful for many fields and disciplines Firstly information on dermal decontamination may be used by governments for military and national defense purposes in the event of chemical warfare Additionally this information would be of use to many production companies whose employees are at risk of an accident with toxic industrial chemicals Topics covered in the book will also be of use to pharmaceutical companies especially those exploring transdermal delivery of drugs and is of great relevance to those in the medical field particularly dermatologists

Dermal Drug Delivery Tapash K. Ghosh, 2020-01-21 With the continued advancement of better quality control and patient outcome reporting systems changes in the development control and regulation of all pharmaceutical delivery systems including transdermal and topical products have been happening on a continuous basis In light of various quality issues that have been reported by patients and practitioners resulting in the recall or removal of products from the market both the pharmaceutical industries and regulatory agencies have been adopting new measures to address these issues With chapters written by experts in this field this book takes a 21st century multidisciplinary and cross functional look at these dosage forms to improve the development design manufacturing quality clinical performance safety and regulation of these products This book offers a wealth of up to date information organized in a logical sequence corresponding to various stages of research development and commercialization of dermal drug delivery products The authors have been carefully selected from different sectors of pharmaceutical science for their expertise in their selected areas to present objectively a balanced view of the current state of these products development and commercialization via regulatory approval Their insights will provide useful information to others to ensure the successful

development of the next generation dermal drug products Key Features Presents current advancements including new technologies of transdermal and topical dosage forms Presents challenges in the development of the new generation of transdermal and topical dosage forms Introduces new technologies and QbD quality by design aspects of manufacturing and control strategies Includes new perspectives on pre clinical and clinical development regulatory considerations safety and quality Discusses regulatory challenges gaps and future considerations for dermal drug delivery systems **Drug Delivery**

Approaches Bret Berner, Toufigh Gordi, Heather A. E. Benson, Michael S. Roberts, 2021-08-31 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 *Nano Medicine and Nano Safety* Malay K. Das, Yashwant V. Pathak, 2020-12-09 This book reviews the application of Nanobiotechnology in the development of Nanomedicine while also discussing the latest trends and challenges in the clinical translation of Nanomedicine Nanomedicine refers to the application of Nanotechnology to medicine and holds tremendous potential for achieving improved efficiency bioavailability dose response personalized medicine and enhanced safety as compared to conventional medicines The book first introduces readers to the basic concepts of Nanomedicine and to technological advances in and applications of Nanotechnology in treatment diagnosis monitoring and drug delivery In turn it reviews the current status of multi functionalization strategies for using Nanoparticles in the targeted

delivery of therapeutic agents The book's third and final section focuses on the regulatory and safety challenges posed by Nanomedicine including industry and regulatory agencies efforts to address them Skin Permeation and Disposition of Therapeutic and Cosmeceutical Compounds Kenji Sugibayashi, 2017-11-28 This book reviews skin permeation and disposition of chemical compounds Skin is utilized as an administration site for transdermal drug delivery systems topical drug formulations cosmeceuticals and cosmetics Their usefulness is closely related to the permeation and disposition of entrapped active ingredients through and into the skin Skin permeation disposition and metabolism of chemicals are first summarized in the general introduction Then primary topical formulations are explained in the second part Basic Formulations Applied to Skin The explanation for the active compounds and formulations are of the most important parts required to fabricate these formulations Skin absorption of chemicals is generally much lower than oral and the other mucosal absorptions so that skin penetration enhancement is a key issue to have good formulations topically applied Part 3 presents Skin Penetration Enhancement In addition Part 4 Selection of Topically Applied Chemical Candidates deals with selection methods of topically applied ingredients for transdermal drug delivery systems topical drug formulations cosmeceuticals and cosmetics Parts 5 and 6 Safety Assessment of Topically Applied Compounds and Experimental Methods of Skin Permeation respectively show safety issues and experimental methods for topical formulations The final part consists of comments on therapeutic and cosmetic formulations by medical doctors and pharmacists Their comments are especially helpful for pharmaceutical and cosmetic researchers who study dermatopharmacokinetics and topical formulations This volume is particularly useful for those working in R D graduate students and educators in the area of pharmaceutics cosmetic sciences dermatological sciences pharmacology toxicology biopharmacy pharmacokinetics physical pharmacy chemical engineering and related fields

Percutaneous Absorption Nina Dragičević, Howard Maibach, 2021-07-29 Updating and expanding the scope of topics covered in the previous edition Percutaneous Absorption Drugs Cosmetics Mechanisms Methods Fifth Edition supplies new chapters on topics currently impacting the field including cutaneous metabolism skin contamination exposure to protein allergens in vitro absorption methodology and the percutaneous absorption of chemical mixtures Complete with studies on the role of the skin as a key portal of entry for chemicals into the body this book serves as a detailed reference source for recent advances in the field as well as an experimental guide for laboratory personnel Key Features Details in vivo and in vitro methods for measuring absorption dermal decontamination mechanisms of transdermal delivery and the relationship of transepidermal water loss to percutaneous absorption Considers a range of mathematical models the safety evaluation of cosmetic ingredients the absorption of hair dyes nanoparticles for drug delivery and other novel methods of drug delivery Discusses topics including skin metabolism the skin reservoir and the effects of desquamation on absorption *Clinical Cases in Atopic Dermatitis* Nicholas Brownstone, Wilson Liao, Tina Bhutani, 2024-03-13 This concise practical guide is designed to facilitate the clinical decision making process in the management of atopic dermatitis by reviewing a number of

cases and defining the various diagnostic and management decisions open to clinicians It is well illustrated and diverse in scope enabling the reader to obtain relevant information regarding both standard and unusual cases in a rapid easy to digest format Each case includes a narrative description and patient management tips along with a relevant board review question This book covers exciting updates in the diagnosis and management of AD such atopic dermatitis spectrum disorder and the effects of internal vessel inflammation in AD patients It also highlights the newest oral biologic and topical therapies along with pipeline therapies in the treatment of atopic dermatitis Clinical Cases in Atopic Dermatitis is a must have resource for dermatologists dermatology residents fellows medical students nurse practitioners and physician assistants as well as allergists and immunologists

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