



# Nasal Systemic Drug Delivery

**Marie Trenkel**



## **Nasal Systemic Drug Delivery:**

Nanomaterials and Nanosystems for Biomedical Applications M. Reza Mozafari, 2007-09-19 Under a single cover this book brings together various aspects of functional bioengineered materials and nanostructured biomaterials including commonly used implants and sustained release nanodevices The book includes expert reviews on the advances and current problems associated with the implants and nanodevices Containing recent citations and bibliographies this book will be an indispensable source of information for new researchers and scientists

**Micro- and Nanotechnology in Vaccine Development** Mariusz Skwarczynski, Istvan Toth, 2016-09-20 This book provides a comprehensive overview of how use of micro and nanotechnology MNT has allowed major new advance in vaccine development research and the challenges that immunologists face in making further progress MNT allows the creation of particles that exploit the inherent ability of the human immune system to recognize small particles such as viruses and toxins In combination with minimal protective epitope design this permits the creation of immunogenic particles that stimulate a response against the targeted pathogen The finely tuned response of the human immune system to small particles makes it unsurprising that many of the lead adjuvants and vaccine delivery systems currently under investigation are based on nanoparticles Provides a comprehensive and unparalleled overview of the role of micro and nanotechnology in vaccine development Allows researchers to quickly familiarize themselves with the broad spectrum of vaccines and how micro and nanotechnologies are applied to their development Includes a combination of overview chapters setting out general principles and focused content dealing with specific vaccines making it useful to readers from a variety of disciplines

**Basic Physical Pharmacy** Joseph K. H. Ma, Boka Hadzija, 2013 Basic Physical Pharmacy provides a thorough yet accessible overview of the principles of physical pharmacy and their application in drug formulation and administration This definitive guide to physical pharmacy covers all types of pharmaceuticals from traditional forms and dosages to nanotechnology based novel dosage design Authored by two nationally recognized pharmaceutical scientists and active pharmacy faculty Basic Physical Pharmacy is clearly organized into four sections Physical Pharmacy in Solutions Solid Dosage Forms Polyphasic Systems and Drug Delivery and Novel Drug Delivery Systems Students can build upon their chemistry education to learn the physicochemical properties of drugs and their therapeutic effects on the body With a highly accessible approach Basic Physical Pharmacy will help students comprehend and apply the principles of physical pharmacy in clinical practice Covers major drug products and delivery systems Features current trends in pharmaceutical research and development including nanotechnology based dosage design Includes many examples of useful equations and formulation methods Contains over 200 illustrations photos and tables Topics Include Solutions Ionization of Drugs in Solutions Buffers and Buffered Solutions Drug Solubility Diffusion and Dissolution Distribution Phenomena Complexation and Protein Binding Interfacial Phenomena Rheology Colloids Suspensions and Emulsions Semisolid Dosage Forms Dermatologicals Suppositories Powders Capsules Tablets Aerosols Sterile Dosage

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**Practical Pharmaceutics** Paul Le Brun, Sylvie Crauste-Manciet, Irene Krämer, Julian Smith, Herman Woerdenbag, 2023-06-15 Practical Pharmaceutics contains essential knowledge on the preparation quality control logistics dispensing and use of medicines It features chapters written by experienced pharmacists and scientists working in hospitals academia and industry throughout Europe including practical examples as well as information on current GMP and GMP based guidelines and EU legislation In this second edition all chapters have been updated with numerous new as well as didactically revised illustrations and tables A completely new chapter about therapeutic proteins and Advanced Therapy Medicinal Products was added From prescription to production from usage instructions to procurement and the impact of medicines on the environment the book provides step by step coverage that will help a wide range of readers students as well as professionals It offers product knowledge for all pharmacists working directly with patients and it will enable them to make the required medicine available to store medicines properly to adapt medicines if necessary and to dispense medicines with the appropriate information for patients as well as caregivers about product care and how to maintain the quality of the product The basic knowledge presented in the book will also be valuable for industrial pharmacists to remind and focus them on the application of the medicines manufactured The basic and practical knowledge on the design preparation and quality management of medicines can directly be applied by the pharmacists whose main duty is production in community and hospital pharmacies and in industry Undergraduate as well as graduate pharmacy students will find knowledge presented in a coherent way and fully supported with relevant examples Practical Pharmaceutics has become a reliable and recognised source for the acquisition of pharmaceutical technological knowledge The book is used in the curriculum of a number of international universities and schools of Pharmacy

*Theory and Practice of Contemporary Pharmaceutics* Tapash K. Ghosh, Bhaskara R. Jasti, 2021-02-25 With a shift toward problem based learning and critical thinking in many health science fields professional pharmacy training faces a shift in focus as well Although the Accreditation Council for Pharmacy Education ACPE has recently suggested guidelines for problem solving to be better integrated into pharmacy curriculum pharmacy books currently available either address this material inadequately or lack it completely Theory and Practice of Contemporary Pharmaceutics addresses this problem by challenging pharmacy students to think critically in preparation for situations that arise in clinical practice This book offers a wealth of up to date information organized in a logical sequence corresponding to the art and science required for formulators in industry and dispensing pharmacists in the community It

breaks down the subject to its simplest form and includes numerous examples case studies and problems In addition to presenting basic scientific principles each chapter includes a self evaluation tutorial designed to help you evaluate your understanding of the subject matter numerical problems that provide practice in finding mathematical solutions and case studies that measure your overall grasp of the subject matter by challenging you to craft a plausible solution to a real life scenario using the concepts presented in that chapter Written by authors selected from academia industry and regulatory agencies the book presents an objective and balanced view of pharmaceutical science and its application The authors insights are extremely helpful to pharmacy students as well as practicing pharmacists involved in the development and or dispensation of existing and new generation biotechnology based drug products This simplified and user friendly book will present pharmaceuticals in a way that it has never been presented before and will help prepare students and pharmacists for the competitive and challenging nature of the professional market

*Nanomaterials* Simona Clichici, Gabriela Adriana Filip, Gustavo Morari Do Nascimento, 2020-02-19 In the last decade nanomaterials have become a double edged sword On one hand nanomaterials have proven their limitless potential not only for technological applications but also for medical ones On the other hand the increasing use of these nanomaterials has raised concerns regarding their safety for environmental and human health due to their potential toxicity The toxic effects of nanomaterials depend on their type surface geometry diameter length and function This book intends to provide a comprehensive evidence based overview of nanomaterial toxicity from their synthesis and characterization environmental impact tests to assess their toxicity in vitro and in vivo ways to modulate their impact on living organisms to their beneficial use in biomedical applications

**Nasal Systematic Drug Delivery** Yie Chien, 1989-06-28

*Shargel and Yu's Applied Biopharmaceutics & Pharmacokinetics, 8th Edition* Murray P. Ducharme, Leon Shargel, Andrew B. C. Yu, 2022-01-24 The authoritative textbook on the principles and practical applications of biopharmaceutics and pharmacokinetics Shargel Yu s Applied Biopharmaceutics Pharmacokinetics has been the standard textbook in its field for over 40 years This eighth edition includes recent scientific developments in the field and embodies the collective contribution of experts with deep knowledge and experience in the selected subject areas Shargel Yu s Applied Biopharmaceutics Pharmacokinetics Eighth Edition provides the reader with a fundamental understanding of biopharmaceutics and pharmacokinetics principles that can be applied to patient drug therapy and rational drug product development Shargel Yu s Applied Biopharmaceutics Pharmacokinetics Eighth Edition has been expanded and revised to include advancements in biopharmaceutics and pharmacokinetics The chapter sequence has been reorganized into four main sections providing a more logical sequence for students The textbook starts with fundamental concepts followed by application of these principles to optimize drug therapy and to the rational development of drug products Each chapter includes theoretical concepts with practical examples and clinical applications Frequently asked questions provide a discussion of overall concepts Features Expanded and revised chapters to include scientific advances in biopharmaceutics

and pharmacokinetics Four main sections providing a natural buildup of knowledge introduction to biopharmaceutics and pharmacokinetics fundamentals of biopharmaceutics pharmacokinetic calculations clinical pharmacokinetics and pharmacodynamics and biopharmaceutics and pharmacokinetics in drug product development Additional chapters for this edition include o Physiological factors related to drug absorption o Approaches to pharmacokinetics and pharmacodynamics calculations o Novel and complex dosage Forms o Clinical Development and Therapeutic Equivalence of Generic Drug and Biosimilar Products o Pharmacokinetics and Pharmacodynamics in Clinical Drug Product Development Additional information on drug therapy drug product performance and other related topics Frequently asked questions practice problems clinical examples and learning questions

**Applied Biopharmaceutics & Pharmacokinetics, Seventh Edition** Leon Shargel, Andrew B. C. Yu, 2015-11-22 The landmark textbook on the theoretical and practical applications of biopharmaceutics and pharmacokinetics now fully updated Explains how to detect clinical pharmacokinetic problems and apply basic pharmacokinetic principles to solve them Helps you critically evaluate biopharmaceutic studies involving drug product equivalency and unequivalency Chapters have been revised to reflect the latest clinical perspectives on drug performance bioavailability bioequivalence pharmacokinetics pharmacodynamics and drug therapy The field's leading text for more than three decades Applied Biopharmaceutics Pharmacokinetics gets you up to speed on the basics of the discipline like no other resource Practical problems and clinical examples with discussions are integrated within each chapter to help you apply principles to patient care and drug consultation situations In addition outstanding pedagogy including chapter objectives chapter summaries and FAQs plus additional application questions identify and focus on key concepts Written by authors who have both academic and clinical experience Applied Biopharmaceutics Pharmacokinetics shows you how to use raw data and formulate the pharmacokinetic models and parameters that best describe the process of drug absorption distribution and elimination The book also helps you work with pharmacokinetic and biopharmaceutic parameters to design and evaluate dosage regimens of drugs In the seventh edition of this must have interactive learning tool most of the chapters are updated to reflect our current understanding of complex issues associated with safe and efficacious drug therapy

**Techno-Societal 2018** Prashant M. Pawar, Babruvahan P. Ronge, R. Balasubramaniam, Anup S. Vibhute, Sulabha S. Apte, 2019-11-06 This book divided in two volumes originates from Techno Societal 2018 the 2nd International Conference on Advanced Technologies for Societal Applications Maharashtra India that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations The focus is on technologies that help develop and improve society in particular on issues such as the betterment of differently abled people environment impact livelihood rural employment agriculture healthcare energy transport sanitation water education This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems

in their region On the other hand technologies proposed by expert researchers may find applications in different regions This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science Engineering and Technology for reporting innovations at different levels

Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition Leon Shargel, Andrew Yu, Susanna Wu-Pong, 2012-04-11 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

Nasal and Pulmonary Drug Delivery System Rahul Satapara, Vijay Satapara, L. D. Patel, 2012-07 The widespread interest in intranasal route for therapeutic purposes other than the topically nasal drug delivery arises from the particular anatomical physiological and histological characteristics of the nasal cavity which provides potential for rapid systemic drug absorption and quick onset of action In addition intranasal absorption avoids the gastrointestinal and hepatic presystemic metabolism enhancing drug bioavailability in comparison with that obtained after gastrointestinal absorption Growing attention has been given to the potential of a pulmonary route as a non invasive administration for systemic delivery of therapeutic agents mainly peptides and proteins due to the fact that the lungs could provide a large absorptive surface area up to 100 m<sup>2</sup> but extremely thin 0.1 m to 0.2 m absorptive mucosal membrane and good blood supply However recent advances show great promise but pulmonary delivery of peptides and proteins is complicated by the complexity of the anatomic structure of the human respiratory system and the effect of disposition exerted by the respiration process

Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition Leon Shargel, Susanna Wu-Pong, Andrew Yu, 2004-08-19 The most comprehensive text on the practical applications of biopharmaceuticals and pharmacokinetics 4

STAR DOODY S REVIEW The updated edition provides the reader with a solid foundation in the basic principles of pharmacokinetics and biopharmaceutics Students will be able to apply the information to their clinical practice and researchers will find this to be a valuable reference This modestly priced book should be the gold standard for student use Doody s Review Service The primary emphasis of this book is on the application and understanding of concepts Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving Applied Biopharmaceutics & Pharmacokinetics Leon Shargel,Susanna Wu-Pong,Andrew B. C. Yu,2005 Annotation The primary emphasis of this book is on the application and understanding of concepts Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving *Encyclopedia of Controlled Drug Delivery* Edith Mathiowitz,1999

*Transmucosal Nasal Drug Delivery* Katja Suter-Zimmermann,2008 **Nasal Drug Delivery** Yashwant V.

Pathak,Hemant K. S. Yadav,2023-03-17 This book addresses the recent trends and clinical research being reported in last 5 to 10 years in the field of nasal drug delivery systems In recent years interest in using nasal passage as drug absorption site has received increased attention from formulation scientists Nasal passages even though a small surface area of the body as compared to other absorption passage such as Gastrointestinal tract or skin show significant possibility for drug absorption at a quicker rate There is also a possibility of delivering drugs to the brain using this passage and targeting drugs through the nasal passage The book has 19 chapters addressing various aspects of nasal drug delivery systems such as an overview of anatomy and physiology of the nasal passage from a drug delivery point of view to global market opportunities for nasal drug delivery In between it addresses various aspects of nasal drug delivery There are very few titles exclusively dedicated to nasal drug delivery covering the formulation and developmental aspects and addressing the challenges and solutions The primary audiences for the book are graduate students in field of medicine pharmacy and also various researchers who are working in the area of nasal drug delivery in addition to students who are specializing in field of medicine in ENT This book provides comprehensive information on all the aspects related to the nasal drug delivery of various drug molecules

**Effects of Excipients in Nasal Powder Formulations for Systemic Drug Delivery** Marie Trenkel,2023 **Drug Delivery to the Respiratory Tract** David Ganderton,Trevor M. Jones,1987 In treating diseases of the respiratory tract the direct administration of drugs has great advantages in terms of clinical efficiency This book reviews the most important recent developments in drug delivery systems to the respiratory tract Starting with a detailed description of lung structure and function successive chapters investigate the usefulness of the pulmonary presentation of beta agonists steroids and chromoglycate and explain metabolic function and susceptibility to chemical damage from the environment showing that the lung is far from being a passive organ Further contributions demonstrate the importance of mucus in humidification particle



capture and particle removal before attention is given to the practical problems of drug delivery and the commercially viable devices available to the pharmaceutical technologist the metered dose inhaler the powder inhaler and the jet nebuliser The final chapter examines the future role of intranasal delivery systems based upon the principles described     **Aerosols in Medicine** Folke Morén, 1993 This edition includes chapters on the diagnostic and therapeutic use of aerosols systemic therapy and particle size analysis of therapeutic aerosols It reviews the current state of the art details important applications and assesses environmental and occupational aerosols

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