

Sustained Release and Controlled Release Drug Delivery System.

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Sustained And Controlled Release Drug Delivery Systems

Xiaoling Li



Sustained And Controlled Release Drug Delivery Systems:

Sustained and Controlled Release Drug Delivery Systems Joseph R. Robinson,1978 **Controlled Drug Delivery** Joseph R. Robinson,1987 **Modern Pharmaceutics** Gilbert S. Banker,Juergen Siepmann,Christopher Rhodes,2002-05-24 Completely revised and expanded throughout Presents a comprehensive integrated sequenced approach to drug dosage formulation design and evaluation Identifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration *Drug Delivery Systems* Dr. Amit Kumar,Mrs. T. Jaghatha,Amit Kumar,2025-10-09 M Pharm First Semester According to the syllabus based on Pharmacy Council of India **Drug Delivery Systems** Kewal K. Jain,2008-03-07 In this concise and systematic book a team of experts select the most important cutting edge technologies used in drug delivery systems They take into account significant drugs new technologies such as nanoparticles and therapeutic applications The chapters present step by step laboratory protocols following the highly successful *Methods in Molecular Biology*™ series format offering readily reproducible results vital for pharmaceutical physicians and scientists **Modeling and Control of Drug Delivery Systems** Ahmad Taher Azar,2021-02-06 Modeling and Control of Drug Delivery Systems provides comprehensive coverage of various drug delivery and targeting systems and their state of the art related works ranging from theory to real world deployment and future perspectives Various drug delivery and targeting systems have been developed to minimize drug degradation and adverse effect and increase drug bioavailability Site specific drug delivery may be either an active and or passive process Improving delivery techniques that minimize toxicity and increase efficacy offer significant potential benefits to patients and open up new markets for pharmaceutical companies This book will attract many researchers working in DDS field as it provides an essential source of information for pharmaceutical scientists and pharmacologists working in academia as well as in the industry In addition it has useful information for pharmaceutical physicians and scientists in many disciplines involved in developing DDS such as chemical engineering biomedical engineering protein engineering gene therapy Presents some of the latest innovations of approaches to DDS from dynamic controlled drug delivery modeling system analysis optimization control and monitoring Provides a unique recent and comprehensive reference on DDS with the focus on cutting edge technologies and the latest research trends in the area Covers the most recent works in particular the challenging areas related to modeling and control techniques applied to DDS Water-Insoluble Drug Formulation Ron Liu,2018-03-12 Properties and Formulation From Theory to Real World Application Scientists have attributed more than 40 percent of the failures in new drug development to poor biopharmaceutical properties particularly water insolubility Issues surrounding water insolubility can postpone or completely derail important new drug development Even the much needed reformulation of currently marketed products can be significantly affected by these challenges More recently it was reported that the percentage increased to 90% for the candidates of new chemical entities in the discovery stage and 75% for compounds under development In the most

comprehensive resource on the topic this third edition of Water Insoluble Drug Formulation brings together a distinguished team of experts to provide the scientific background and step by step guidance needed to deal with solubility issues in drug development Twenty three chapters systematically describe the detailed discussion on solubility theories solubility prediction models the aspects of preformulation biopharmaceutics pharmacokinetics regulatory and discovery support of water insoluble drugs to various techniques used in developing delivery systems for water insoluble drugs This book includes more than 15 water insoluble drug delivery systems or technologies illustrated with case studies and featuring oral and parenteral applications Highlighting the most current information and data available this seminal volume reflects the significant progress that has been made in nearly all aspects of this field The aim of this book is to provide a handy reference for pharmaceutical scientists in the handling of formulation issues related to water insoluble drugs In addition this book may be useful to pharmacy and chemistry undergraduate students and pharmaceutical and biopharmaceutical graduate students to enhance their knowledge in the techniques of drug solubilization and dissolution enhancement

From Current to Future Trends in Pharmaceutical Technology Natassa Pippa, Costas Demetzos, Maria Chountoulesi, 2023-11-30 From Current to Future Trends in Pharmaceutical Technology explores the current trends of this field and creates a multi aspect framework for the reader The book covers topics on pharmaceutics pharmaceutical engineering pre formulation protocols techniques innovative excipients bio printing techniques scale up based on formulas on a chip and regulatory aspects based on new scientific achievements Modified dosage forms new aspects on the compatibility of drug excipients interactions and drug release by various dosage forms are included Physical pharmacy physical and biological stability of dosage forms innovative excipients patents on innovative formulations and regulatory issues related to the approval process of medicines are also discussed The book is a valuable resource for a wide audience of academics industrial researchers and professionals working in this field as the development of efficient and safe medicines is critical to future needs Includes innovative excipients advanced materials in pharmaceutics Covers modified release delivery platforms Explores new elements of drug development

Design of Controlled Release Drug Delivery Systems Xiaoling Li, 2005-11-24 The goal of every drug delivery system is to deliver the precise amount of a drug at a pre programmed rate to the desired location in order to achieve the drug level necessary for the treatment An essential guide for biomedical engineers and pharmaceutical designers this resource combines physicochemical principles with physiological processes to facilitate the design of systems that will deliver medication at the time and place it is most needed

Advanced Drug Delivery Systems - Tablets Rumessa Sameer, 2010-09 Oral route of drug administration is most appealing route for delivery of drugs of various dosage forms The tablet is one of the most preferred dosage form because of its ease of administration accurate dosing and stability Sustained release system includes any delivery system that achieves release of drug over an extended period of time If the system at maintaining constant drug level in the blood of target time it is considered a controlled release system If it is unsuccessful at

this but nevertheless extends the duration of action over that achieved by conventional delivery it is considered a prolonged release system The goal in designing sustained or controlled delivery systems is to reduce the frequency of dosing or to increase effectiveness of the drug by localization at the site of action Many terms used to refer to therapeutic systems of controlled and sustained release have been used although descriptive terms such as Timed release and Prolonged release gives excellent manufacturing identification Sustained release constitutes any dosage form that provides medication over an extended time

Computer-Aided Drug Design and Delivery Systems Ahindra Nag, Baishakhi Dey, 2010-10-06 THE LATEST BREAKTHROUGHS IN COMPUTER AIDED DRUG DESIGN AND DELIVERY This definitive text provides in depth information on computer assisted techniques for discovering designing and optimizing new effective and safe drugs Computer Aided Drug Design and Delivery Systems offers objective and quantitative data on the use and delivery of drugs in humans Enabling technologies such as bioinformatics pharmacokinetics biosensors robotics and bioinstruments are thoroughly discussed in this innovative work Coverage includes Computer aided drug design CADD Drug delivery systems Bioinformatics of drug molecules and databases Lipase and esterase mediated drugs and drug intermediates Pharmacokinetics and pharmacodynamics of drugs Biomarkers biosensors and robotics in medicine Biomedical instrumentation

Medical Applications of Controlled Release Robert S. Langer, Donald L. Wise, 2019-06-04 First Published in 1984 this book offers a full comprehensive guide into drug administration Carefully compiled and filled with a vast repertoire of notes pictures and references this book serves as a useful reference for Students of Medicine and other practitioners in their respective fields

TEXT BOOK OF NOVEL DRUG DELIVERY SYSTEM Prof. (Dr.) M. Shamshath Begum, Dr. S. M. Shaheedha, Dr. P. Geetha, Dr. G. Gopi, Dr. D. Bharathi, Anugeetha Thacheril, 2025-05-16 The Text Book of Novel Drug Delivery Systems is a comprehensive guide that delves into the advanced methodologies and technologies used in the design and development of innovative drug delivery systems It begins with a detailed exploration of controlled drug delivery systems highlighting the principles of diffusion dissolution and ion exchange and discussing the physicochemical and biological properties essential for effective formulation The book then shifts focus to polymers emphasizing their classifications properties and critical role in ensuring controlled and sustained drug release Microencapsulation is explored in depth including the types of microspheres microcapsules and techniques employed to achieve precise drug targeting and stability The text also examines mucosal drug delivery systems detailing mucoadhesion principles and formulation considerations particularly for buccal routes Readers will gain insights into implantable systems including concepts of osmotic pumps and long term implants The section on transdermal systems offers an understanding of skin permeation formulation components and enhancement strategies The book comprehensively covers gastroretentive systems offering multiple approaches like floating and adhesive systems to prolong gastric residence time The nasapulmonary delivery chapter outlines formulation strategies for inhalers sprays and nebulizers An in depth look at targeted delivery systems introduces liposomes niosomes nanoparticles and

monoclonal antibodies explaining their applications in delivering drugs precisely to disease sites Lastly ocular and intrauterine delivery systems are discussed with emphasis on overcoming biological barriers and designing effective formulations such as ocuserts and intrauterine devices IUDs This textbook is ideal for pharmacy students researchers and professionals seeking a foundational and applied understanding of modern drug delivery technologies **Concise**

Encyclopedia of Biomedical Polymers and Polymeric Biomaterials Munmaya Mishra, 2017-08-16 The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11 volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials

Acknowledging the evolving nature of the field the encyclopedia also features newly added content in areas such as tissue engineering tissue repair and reconstruction and biomimetic materials **Controlled Release Systems** S. K.

Chandrasekaran, 1981 Nitroglycerin Sustained Release Tablet. Formulation Design and Evaluation Subrata Bhadra, 2013-08-07 Master's Thesis from the year 2010 in the subject Medicine Pharmacology Pharmacy University of Dhaka M Pharm in Pharmaceutical Technology language English abstract The aim of the present studies was to develop and characterize 2.6 mg sustained release matrix tablets of Nitroglycerin Tablets were prepared by direct compression method Methocel K15M CR and Methocel K100LV CR polymers were used as rate retarding agents in nine formulations F 1 to F 9 The granules were evaluated for angle of repose loose bulk density tapped bulk density Carr's index Hausner ratio moisture content total porosity and assay The tablets were subjected to diameter thickness assay uniformity of content assay after 1 Month at 40 °C 75%RH hardness friability and in vitro dissolution studies The granules showed satisfactory flow properties compressibility and drug content All the tablet formulations showed acceptable pharmacotechnical properties and complied with pharmacopoeial specifications for tested parameters The in vitro dissolution study was carried out for 8 hour using USP 2009 Apparatus I Rotating basket method in distilled water as the dissolution medium The release mechanisms were explored and explained by Zero order First order Higuchi Korsmeyer Peppas and Hixson Crowell equations Nine formulations were prepared by using three variable ratio of two polymers Methocel K15M CR 25% 20% and 15% and Methocel K100LV CR 15% 10% and 5% where all the formulations F 1 to F 9 contained 0.5% colloidal silicon dioxide and 1% magnesium stearate Among these nine formulations six formulations F 2 Methocel K15M CR Methocel K100LV CR 25% 10% F 3 Methocel K15M CR Methocel K100LV CR 25% 5% F 4 Methocel K15M CR Methocel K100LV CR 20% 15% F 5 Methocel K15M CR Methocel K100LV CR 20% 10% F 6 Methocel K15M CR Methocel K100LV CR 20% 5% and F 7 Methocel K15M CR Methocel K100LV CR 15% 15% met the official specification of release profile It was also found that the type and the amount of polymers significantly affect the time required for 50% T50% or MDT of drug release release rate constant and diffusion

exponent Higher the MDT value indicates a higher drug retaining capacity of the polymers and vice versa Kinetic modeling of in vitro dissolution profiles revealed the drug release mechanism of all proposed formulations followed anomalous type or non Fickian transport n 0 43 and n

Controlled Release in Oral Drug Delivery Clive G. Wilson,Patrick J. Crowley,2011-09-22 Controlled Release in Oral Drug Delivery provides focus on specific topics complementing other books in the initial CRS series Each chapter sets the context for the inventions described and describe the latitude that the inventions allow In order to provide some similar look to each chapter the coverage includes the historical overview candidate drugs factors influencing design and development formulation and manufacturing and delivery system design This volume was written along three main sections the relevant anatomy and physiology a discussion on candidates for oral drug delivery and the major three groups of controlled release systems diffusion control swelling and inert matrices environmental control pH sensitive coatings time control enzymatic control pressure control and finally lipidic systems *Drug Metabolism Reviews*

,1979 Fundamentals and Applications of Controlled Release Drug Delivery Juergen Siepmann,Ronald A. Siegel,Michael J. Rathbone,2011-12-15 This book approaches the subject from a mechanistic perspective that pitches the language at a level that is understandable to those entering the field and who are not familiar with its common phrases or complex terms It provides a simple encapsulation of concepts and expands on them In each chapter the basic concept is explained as simply and clearly as possible without a great deal of detail then in subsequent sections additional material exceptions to the general rule examples etc is introduced and built up Such material was generously supplemented with diagrams conceptually elegant line diagrams in two or three colors The artwork was well thought out and able to condense the scientific principles into a novel and visually exciting form The diagrams encourage browsing or draw the reader to salient points In addition the technique of highlighting key concepts in a separate box is used throughout each chapter **Dissolution, Bioavailability**

& Bioequivalence Hamed Mahmoud Abdou,1989 1 Evolution of dissolution testing 5 2 Theory of dissolution 11 3 Theoretical concepts for the release of a drug from dosage forms 37 4 Effect of the physicochemical properties of the drug on dissolution rate 53 5 Factors affecting the rate of dissolution of solid dosage forms 73 6 Effects of storage and packaging on the dissolution of drug formulations 107 7 Factors relating to the dissolution apparatus 115 8 Effect of the test parameters on dissolution rate 145 9 Dissolution of suspensions 173 10 Dissolution of topical dosage forms creams gels and ointments 189 11 Dissolutions of suppositories 205 12 Dissolution characteristics of controlled release systems 215 13 Methods for enhancement of the drug dissolution characteristics 265 14 Developing a new dissolution method 285 15 Bioavailability definitions and historical perspective 297 17 In vitro modeling for drug absorption 315 18 Pharmacokinetic considerations in bioavailability studies 335 19 Bioavailability and variations in drug blood levels 367 20 Bioavailability and the biologic response 385 21 Measurements of bioavailability 399 22 General issues to be considered in conducting bioavailability studies 415 23 Bioavailability of controlled release dosage forms 425 24 In vivo release and bioavailability of topical preparations

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