

Long Acting Injections And Implants Advances In Delivery Science And Technology By Springer 2011 12 14

Now in its fifth edition, Principles of Tissue Engineering has been the definite resource in the field of tissue engineering for more than a decade. The fifth edition provides an update on this rapidly progressing field, combining the prerequisites for a general understanding of tissue growth and development, the tools and theoretical information needed to design tissues and organs, as well as a presentation by the world's experts of what is currently known about each specific organ system. As in previous editions, this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering, including biology, chemistry, material science, and engineering, among others, while also emphasizing those research areas that are likely to be of clinical value in the future. This edition includes greatly expanded focus on stem cells, including induced pluripotent stem (iPS) cells, stem cell niches, and blood components from stem cells. This research has already produced applications in disease modeling, toxicity testing, drug development, and clinical therapies. This up-to-date coverage of stem cell biology and the application of tissue-engineering techniques for food production – is complemented by a series of new and updated chapters on recent clinical experience in applying tissue engineering, as well as a new section on the emerging technologies in the field. Organized into twenty-three parts, covering the basics of tissue growth and development, approaches to tissue and organ design, and a summary of current knowledge by organ system Introduces a new section and chapters on emerging technologies in the field Full-color presentation throughout Long acting veterinary formulations play a significant role in animal health, production and reproduction within the animal health industry. Such technologies offer beneficial advantages to the veterinarian, farmer and pet owner. These advantages have resulted in them growing in popularity in recent years. The pharmaceutical scientist is faced with many challenges when innovating new products in this demanding field of controlled release. This book provides the reader with a comprehensive guide on the theories, applications, and challenges associated with the design and development of long acting veterinary formulations. The authoritative chapters of the book are written by some of the leading experts in the field. The book covers a wide scope of areas including the market influences, preformulation, biopharmaceutics, in vitro drug release testing and specification setting to name but a few. It also provides a detailed overview of the major technological advances made in this area. As a result this book covers everything a formulation scientist in industry or academia, or a student needs to know about this unique drug delivery field to advance health, production and reproduction treatment options and benefits for animals worldwide.

Antipsychotic Long-acting Injections (LAIs) were introduced in the 1960s to improve treatment adherence in schizophrenia. Subsequently, first-generation antipsychotic LAIs became widely used in many countries. Since the initial publication of Antipsychotic Long-acting Injections in 2010, new trial data have been published on long-acting injection (LAI) preparations of the drugs Risperidone, Paliperidone, and Olanzapine. Furthermore, a new LAI preparation of the drug Aripiprazole has recently been approved for clinical use in the United States and is likely to be approved in Europe soon. The second edition of this successful book has been fully updated to include this new data, with reference to both observational studies and randomized controlled trials, as well as other new developments in the clinical use of antipsychotic LAIs. New chapters have been added covering the comparison between oral and injectable antipsychotics, Olanzapine LAI, Aripiprazole LAI, and the practicalities of organizing a specialized clinic for long-acting injectable antipsychotics. Existing chapters have also been thoroughly updated to take into account the most recently published research. Antipsychotic Long-acting Injections, Second edition brings together clinical and research findings on LAIs in a comprehensive volume, with chapters written by international experts.

Alcohol use disorder (AUD) is a major public health problem in the United States. The estimated 12-month and lifetime prevalence values for AUD are 13.9% and 29.1%, respectively, with approximately half of individuals with lifetime AUD having a severe disorder. AUD and its sequelae also account for significant excess mortality and cost the United States more than \$200 billion annually. Despite its high prevalence and numerous negative consequences, AUD remains undertreated. In fact, fewer than 1 in 10 individuals in the United States with a 12-month diagnosis of AUD receive any treatment. Nevertheless, effective and evidence-based interventions are available, and treatment is associated with reductions in the risk of relapse and AUD-associated mortality. The American Psychiatric Association Practice Guideline for the Pharmacological Treatment of Patients With Alcohol Use Disorder seeks to reduce these substantial psychosocial and public health consequences of AUD for millions of affected individuals. The guideline focuses specifically on evidence-based pharmacological treatments for AUD in outpatient settings and includes additional information on assessment and treatment planning, which are an integral part of using pharmacotherapy to treat AUD. In addition to reviewing the available evidence on the use of AUD pharmacotherapy, the guideline offers clear, concise, and actionable recommendation statements, each of which is given a rating that reflects the level of confidence that potential benefits of an intervention outweigh potential harms. The guideline provides guidance on implementing these recommendations into clinical practice, with the goal of improving quality of care and treatment outcomes of AUD.

Innovative delivery systems for paediatric medicines

Health Consequences for Women and Children in the Developing World

Contraception

Long Acting Animal Health Drug Products

A Global Handbook for Providers - Evidence-based Guidance Developed Through Worldwide Collaboration

Peptides and Small Molecules Drug Delivery

This book provides step-by-step illustrated descriptions of diverse vocal fold injection techniques, including some not previously described. The aim is to provide laryngologists in general, and especially those who are less experienced, with the detailed understanding and guidance needed in order to achieve optimal outcomes. Highly experienced experts describe approaches via the transoral, transnasal, and transcutaneous routes and offer guidance on indications, injection materials, pre- and postoperative care, and the management of complications. Special considerations that must be borne in mind when employing different vocal fold injection techniques, in different settings, are also carefully explained. In offering comprehensive, up-to-date information on this minimally invasive and cost-effective procedure, Vocal Fold Injection will be an essential aid for practitioners.

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 into different 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 clinical use. 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,is frequently 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.

Long-Acting Drug Delivery Systems: Pharmaceutical, Clinical, and Regulatory Aspects offers a comprehensive overview of the technical, clinical, regulatory and industrial perspectives on these drug delivery systems. The book follows a sequential order, beginning with the current technical state-of-the-field and moving on to more clinical, industrial and regulatory topics. Opening chapters describe the current needs and potential applications of implantable and long-acting therapeutic approaches. The book goes on to describe established and novel long-acting systems, with a focus on the materials used to prepare these systems and their biocompatibility. Importantly, applied topics such as scale-up manufacturing, products under clinical trials and regulatory aspects are covered, offering the reader a holistic view of this rapidly growing field. Brings together technical, clinical, regulatory and industrial perspectives for a complete overview of long acting and implantable drug delivery systems Provides up-to-date coverage of established and novel long-acting and implantable drug delivery systems, both in development and actively in use Appeals to a broad readership, including materials scientists, pharmaceutical scientists, biomedical engineers, clinicians and regulatory experts

Obstacles and Opportunities

Chitosan Based Biomaterials Volume 1

Science and Practice

A Manual of Primary Health Care

Fundamentals

Contraceptive Use by Method 2019

*Long Acting Injections and Implants*Springer Science & Business Media

Elephants are among the most iconic and problematic –members of South Africa’s wildlife population. While they are sought after by South African and foreign tourists alike, they also have a major impact on their environment. As a result, elephant management has become a highly complex and often controversial discipline. The information needed to underpin vital decisions about elephant management has largely been unavailable to decision-makers, contested by experts, or simply unknown. As a result, the South African Minister for Environmental Affairs and Tourism convened a round table to advise him on this issue. The round table recommended that a scientific assessment of elephant management be undertaken to gather, evaluate, and present all the relevant information on this topic. Its main findings and recommendations are contained in this volume. Elephant Management is the first book of its kind, combining the work of more than 60 national and international experts. Extensively reviewed by policy-makers and other stakeholders, it is the most systematic and comprehensive review of savanna elephant populations and factors relevant to managing them to date. As such it is of interest to a broad spectrum of readers in South Africa and elsewhere. Above all, it is aimed at helping conservation policy-makers and practitioners to choose the best possible options for the sustainable preservation of these iconic animals.

Functionalized nanomaterials have extremely useful properties, which can outperform their conventional counterparts because of their superior chemical, physical, and mechanical properties and exceptional formability. They are being used for the development and innovation in a range of industrial sectors. However, the use of functionalized nanomaterials is still in its infancy in many industrial settings. Functionalized nanomaterials have the potential to create cheaper and more effective consumer products and industrial processes. However, they also could have adverse effects on the environment, human health, and safety, and their sustainability is questionable, if used incorrectly. This book discusses the opportunities and challenges of using functionalized nanomaterials in a variety of major industrial sectors. Handbook of Functionalized Nanomaterials for Industrial Applications provides a concise summary of the major applications of functionalized nanomaterials in industry today. It covers the enhancements in industrial techniques a processes, due to functionalized nanomaterials, showing how they substantially improve the performance of existing procedures, and how they can deliver exciting consumer products more cheaply. Emphasis is given to greener approaches, leading to more sustainable products and devices. The legal, economic, and toxicity aspects of functionalized nanomaterials are also discussed in detail. Highlights established industrial applications of functionalized nanomaterials and discusses their future potential for a range of industrial sectors Discusses how functionalized nanomaterials are being used to create new types of commercial products and devices Assesses the challenges of using functionalized nanomaterials in industry, setting out major safety and regulatory challenges

Implant dentistry has changed and enhanced significantly since the introduction of osseointegration concept with dental implants. Because the benefits of therapy became apparent, implant treatment earned a widespread acceptance. Therefore, the need for dental implants has caused a rapid expansion of the market worldwide. Dental implantology continues to excel with the developments of new surgical and prosthodontic techniques, and armamentarium. The purpose of this book named Current Concepts in Dental Implantology is to present a novel resource for dentists who want to replace missing teeth with dental implants. It is a carefully organized book, which blends basic science, clinical experience, and current and future concepts. This book includes ten chapters and our aim is to provide a valuable source for dental students, post-graduate residents and clinicians who want to know more about dental implants.

Biomedical Applications

Drug Delivery

Medications for Opioid Use Disorder

Contraceptive Research, Introduction, and Use

Health and Healing

Fundamentals and Applications

Athletic trainers have a responsibility to provide high-quality pharmaceutical care while meeting both legal and ethical requirements. Clinical Pharmacology in Athletic Training empowers athletic trainers with a functional understanding of pharmacology that enables them to formulate a treatment plan intended to mitigate disease and improve the overall health of their patients. This text incorporates the most up-to-date content from the 2020 Commission on Accreditation of Athletic Training Education (CAATE) standards, and it emphasizes interprofessional practice to enable future and current athletic trainers to collaborate with other health professionals in a manner that optimizes the quality of care. Clinical Pharmacology in Athletic Training begins by addressing drug legislation and the legal aspects of the athletic trainer’s role in sport medication. The text provides an overview of pharmacokinetics and pharmacodynamics with an emphasis on concepts relevant to clinical practice. Students are introduced to the generic and brand names, general classifications, and appropriate administration of drugs and are guided toward appropriate online reference materials. Part II of this text describes common medications for pain, inflammation, and infections. Part III includes medications for specific conditions, including respiratory, cardiovascular, neurological, gynecological, and mental health conditions. The text also includes current information on opioid analgesics, cannabis, and cannabinoid-based medications. Clinical Pharmacology in Athletic Training teaches students to administer appropriate pharmacological agents for the management of the patient’s condition. The information includes indications, contraindications, dosing, interactions, and adverse reactions. The following features are included to aid in the learning process: Chapter objectives set the stage for the main topics covered in the chapter. Key terms are boldfaced to indicate terms of special importance, and a glossary of definitions is included at the back of the book. Red flag sidebars highlight warnings and precautions for certain medications or medicolegal issues. Evidence in Pharmacology sidebars highlight recent research regarding medications. Clinical Application sidebars present real-life stories from the field of athletic training. Case studies highlight specific therapeutic medication applications and are accompanied by questions that prompt readers to think critically about the issues presented. Quick reference drug tables describe medication types, generic and brand names, pronunciations, common indications, and other special considerations for the athletic trainer. Over the past decade, there has been an increased emphasis on pharmacology in athletic training. Clinical Pharmacology in Athletic Training will equip students with appropriate skills and competencies, prepare them to meet patient needs, and enable them to work in interprofessional teams.

In a rapidly growing field of neuromodulation against pain, this excellent publication presents a unique compilation of the latest theoretical and practical information for electrical stimulation of the peripheral nerves. Chapters cover the use of peripheral nerve stimulation in particular indications such as migraine, cluster headache, pain in Chiari malformation and fibromyalgia, as well as in specific body parts such as head and neck, trunk, and extremities. Furthermore, chapters on history, technical aspects, mechanism of action, terminology, complications and other important aspects of this pain-relieving modality give you a full overview of the field. Written by leading experts, this publication provides a comprehensive and updated summary of the currently available scientific information on peripheral nerve stimulation. All chapters contain original information making this book an ideal reference for all who deal with the management of pain in clinical, research, and practical settings, pain specialists and neurologists.

This data booklet highlights estimates of the prevalence of individual contraceptive methods based on the World Contraceptive Use 2019 (which draws from 1,247 surveys for 195 countries or areas of the world) and additional tabulations obtained from microdata sets and survey reports. The estimates are presented for female and male sterilisation, intrauterine device (IUD), implant, injectable, pill, male condom, withdrawal, rhythm and other methods combined.

Long acting injections and implants improve therapy, enhance patient compliance, improve dosing convenience, and are the most appropriate formulation choice for drugs that undergo extensive first pass metabolism or that exhibit poor oral bioavailability. An intriguing variety of technologies have been developed to provide long acting injections and implants. Many considerations need to go into the design of these systems in order to translate a concept from the lab bench to actual therapy for a patient. This book surveys and summarizes the field. Topics covered in Long Acting Injections and Implants include the historical development of the field, drugs, diseases and clinical applications for long acting injections and implants, anatomy and physiology for these systems, specific injectable technologies (including lipophilic solutions, aqueous suspensions, microspheres, liposomes, in situ forming depots and self-assembling lipid formulations), specific implantable technologies (including osmotic implants, drug eluting stents and microfabricated systems), peptide, protein and vaccine delivery, sterilization, drug release testing and regulatory aspects of long acting injections and implants. This volume provides essential information for experienced development professionals but was also written to be useful for scientists just beginning work in the field and for others who need an understanding of long acting injections and implants. This book will also be ideal as a graduate textbook.

Clinical Pharmacology in Athletic Training

Atlas of Contraception, Second Edition

Chitosan in Drug Delivery

Medical Eligibility Criteria for Contraceptive Use

Data Booklet

Current Concepts in Dental Implantology

Implantable Technologies: Peptides and Biologic Drug Development is an ideal reference for any postgraduate or researcher interested in utilising implantable technologies and novel routes of drug administration.

Implantable technologies allow for a sustained control over the release of pharmaceuticals into the bloodstream thereby achieving a controlled concentration with the potential to minimise side-effects while increasing patient compliance. Significant progress has been made in various alternative implantable delivery technologies, notably in intraocular and subcutaneous devices. Despite success in research and clinical studies, long-term clinical efficacy may be more limited and different aspects related to drug development and commercialization using these technologies are not well understood or practiced in the commercial setting. This book provides a comprehensive and cohesive picture of the latest in the field while also outlining the opportunities and challenges in implantable technology. Implantable Technologies: Peptides and Biologic Drug Development is an ideal reference for any postgraduate or researcher interested in utilising implantable technologies and novel routes of drug administration. The book will also be of interest to those involved in formulation and clinical application for a wide array of disease areas in addition to more established paradigms such as diabetes and pain management.

Biomaterials offer the potential to restore and supplement the function of tissues and organs following injury or disease. The use of inorganic materials in the clinic to date has been widespread, in the form of metallic joint replacements and ceramic dental and bone implants. Exciting new medical applications continue to emerge, enabled by innovative materials for neural interfaces and as anti-fouling agents. The Chemistry of Inorganic Biomaterials covers the underlying chemistry behind the most common and cutting-edge inorganic materials in current use, or approaching use, in vivo. Framed from the context of the overarching material class/application, it provides a balanced and critical overview of the field by bringing together experts in both the fundamental inorganic and material chemistry, as well as key clinical considerations for biomedical applications. Written in an accessible style, this book will be of interest to advanced undergraduates, postgraduates and researchers in biomaterials, inorganic materials and materials chemistry.

There are numerous reasons to hasten the introduction of new and improved contraceptives—from health concerns about the pill to the continuing medical liability crisis. Yet, U.S. organizations are far from taking a leadership position in funding, researching, and introducing new contraceptives—in fact, the United States lags behind Europe and even some developing countries in this field. Why is research and development of contraceptives stagnating? What must the nation do to energize this critical arena? This book presents an overall examination of contraceptive development in the United States—covering research, funding, regulation, product liability, and the effect of public opinion. The distinguished authoring committee presents a blueprint for substantial change, with specific policy recommendations that promise to gain the attention of specialists, the media, and the American public. The highly readable and well-organized volume will quickly become basic reading for legislators, government agencies, the pharmaceutical industry, private organizations, legal professionals, and researchers—everyone concerned about family planning, reproductive health, and the impact of the liability and regulatory systems on scientific innovations.

Family Planning

Antipsychotic Long-acting Injections

Developing New Contraceptives

Safe Management of Wastes from Health-care Activities

Applied Clinical Pharmacokinetics and Pharmacodynamics of Psychopharmacological Agents

For Healthcare and Addiction Professionals, Policymakers, Patients, and Families

Chitosan in Drug Delivery provides thorough insights into chitosan chemistry, collection, chemical modifications, characterization and applications in the pharmaceutical industry and healthcare fields. The book explores molecular weight, degree of deacetylation and molecular geometry, emphasizing recent advances in the field as written by academic, industry and regulatory scientists. It will be a useful resource for pharmaceutical scientists, including industrial pharmacists, analytical scientists, postgraduate students, health care professionals and regulatory scientists actively involved in pharmaceutical product and process development in natural polymers containing drug delivery. Provides methodologies for the design, development and selection of chitosan in particular therapeutic applications Includes illustrations demonstrating the mechanism of biological interaction of chitosan Discusses the regulatory aspects and demonstrates the clinical efficacy of chitosan

Bioresorbable Implants can be processed via conventional polymer processing methods such as extrusion, injection and compressing moulding, solvent spinning or casting. This book addresses issues and highlights recent advances in the use of biodegradable polymers. It is intended for researchers utilizing biodegradable polymers in areas from tissue engineering to controlled release of active pharmaceuticals, as well as industrial processors.

This document is one of two evidence-based cornerstones of the World Health Organization’s (WHO) new initiative to develop and implement evidence-based guidelines for family planning. The first cornerstone, the Medical eligibility criteria for contraceptive use (third edition) published in 2004, provides guidance for who can use contraceptive methods safely. This document, the Selected practice recommendations for contraceptive use (second edition), provides guidance for how to use contraceptive methods safely and effectively once they are deemed to be medically appropriate. The recommendations contained in this document are the product of a process that culminated in an expert Working Group meeting held at the World Health Organization, Geneva, 13-16 April 2004.

Contraception: Science and Practice serves as a guidebook for elucidating the science of contraception, and at the same time for utilizing the methods better to meet human needs. Organized into 17 chapters, this book first explores the world view on birth control, as well as the complications of combined oral contraception. Subsequent chapters show the relationship between oral contraception and cancer; practical prescribing of the combined oral contraceptive pill; the progestogen-only pill; and the systemic hormonal contraception by non-oral routes. Other chapters elucidate postcoital contraception; intrauterine contraceptive devices; male and female barrier contraceptive methods; natural family planning; and contraception for the older woman. Cervical ripening prior to termination of pregnancy; abortion; female sterilization and its reversal; vasectomy and its reversal; and progress towards a systemic male contraceptive are also discussed. This book will be valuable to physicians engaged in teaching or research in birth-control techniques, as well as a reference book and resource for many others.

A Scientific Assessment for South Africa

technology landscape

Safety of Silicone Breast Implants

Long Acting Injections and Implants

Fundamentals and Applications, Second Edition

This revised and updated Atlas provides a comprehensive guide to modern contraceptive practice. The book is heavily illustrated with color photographs and line drawings that guide the reader through the various options available and provide a valuable educational resource. The supporting text offers a concise description of family planning in today’s world. Family planning is needed, simple and inexpensive. This book provides an invaluable resource for the wide range of physicians and allied health workers who advise and deliver contraceptive care. This book is meant for primary health care workers and all those interested in contributing to community health. It is a thorough and exhaustive guide for all those who want to offer the best in preventive care. The language used is simple and adequate explanations are given of procedures and modes of treatment or diagnosis. The special features are its diagnostic tables and charts that make the practice of medicine holistic.

These Guidelines review the use of medicines such as methadone, buprenorphine, naltrexone and clonidine in combination with psychosocial support in the treatment of people dependent on heroin or other opioids. Based on systematic reviews of the literature and using the GRADE approach to determining evidence quality, the guidelines contain specific recommendations on the range of issues faced in organizing treatment systems, managing treatment programmes and in treating people dependent on opioids. Developed in collaboration with internationally acclaimed experts from the different regions of the globe, this book should be of interest to policy makers, program managers, and clinicians everywhere who seek to alleviate the burden of opioid dependence.

This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches.

Handbook of Functionalized Nanomaterials for Industrial Applications

Soft Tissue Augmentation

The Chemistry of Inorganic Biomaterials

Bioresorbable Polymers

Long-Acting Drug Delivery Systems

The American Psychiatric Association Practice Guideline for the Pharmacological Treatment of Patients With Alcohol Use Disorder

The Dow Corning case raised serious questions about the safety of silicone breast implants and about larger issues of medical device testing and patient education. Safety of Silicone Breast Implants presents a well-documented, thoughtful exploration of the safety of these devices, drawing conclusions from the available research base and suggesting further questions to be answered. This book also examines the sensitive issues surrounding women’s decisions about implants. In reaching conclusions, the committee reviews: The history of the silicone breast implant and the development of its chemistry. The wide variety of U.S.-made implants and their regulation by the Food and Drug Administration. Frequency and consequences of local complications from implants. The evidence for and against links between implants and autoimmune disorders, connective tissue disease, neurological problems, silicone in breast milk, or a proposed new syndrome. Evidence that implants may be associated with lower frequencies of breast cancer. Safety of Silicone Breast Implants provides a comprehensive, well-organized review of the science behind one of the most significant medical controversies of our time.

Soft Tissue Augmentation, 3rd Edition helps you make optimal use of these techniques and provide the optimum results your patients expect. Drs. Alistair and Jean Carruthers provide you with evidence-based, procedural how-to’s and step-by-step advice on proper techniques, pitfalls, and tricks of the trade, equipping you to successfully incorporate the very latest procedures into your busy practice! Offer your patients the best care and avoid pitfalls. Evidence-based findings and practical tips equip you with the knowledge you need to recommend and discuss the most effective treatment options with your patients. Proceed confidently with current, to-the-point guidance on the cosmetic use of traditional and new fillers edited by pioneers in the field, Drs. Jean and Alistair Carruthers. Expand your repertoire and refine your skills with a wealth of color illustrations, photographs, and procedural videos (including lip augmentation and treatment of hands and feet) depicting cases as they appear in practice. See how non-invasive cosmetic procedures apply to real-life situations with new case studies and pearls throughout. Stay on top of cutting-edge techniques and topics including darker skin and fillers; platelet rich plasma; and tower technique of filler injection as well as new and novel non-permanent fillers including Elastin and Soft Tissue Augmentation; and a combination of Carboxymethyl Cellulose (CMC) and Polyethylene Oxide (PEO). Take advantage of a dynamic and up-to-date focus on the latest soft tissue techniques with 25 new chapters and the unmatched guidance of expert contributors – many new to this edition. Browse the fully searchable text online at ExpertConsult, along with expanded video content and downloadable images.

This book examines how changes in reproductive patterns (such as the number and timing of births and spacing between births) have affected the health of women and children in the developing world. It reviews the relationships between contraceptive use, reproductive patterns, and health; the effects of differences and changes in reproductive patterns; as well as the role of family planning in women’s fertility and health.

The SAGE Encyclopedia of Children and Childhood Studies navigates our understanding of the historical, political, social and cultural dimensions of childhood. Transdisciplinary and transnational in content and scope, the Encyclopedia both reflects and enables the wide range of approaches, fields and understandings that have been brought to bear on the ever-transforming problem of the “child” over the last four decades This four-volume encyclopedia covers a wide range of themes and topics, including: Social Constructions of Childhood Children’s Rights Politics/Representations/Geographies Child-specific Research Methods Histories of Childhood/Transnational Childhoods Sociology/Anthropology of Childhood Theories and Theorists Key Concepts This interdisciplinary encyclopedia will be of interest to students and researchers in: Childhood Studies Sociology/Anthropology Psychology/Education Social Welfare Cultural Studies/Gender Studies/Disability Studies

Elephant management

Contraception and Reproduction

Implantable Technologies

Principles of Tissue Engineering

Selected Practice Recommendations for Contraceptive Use

The SAGE Encyclopedia of Children and Childhood Studies

As the first real contraceptive innovation in over 50 years, and as a long-acting method requiring clinical intervention for application and removal, the implantable contraceptive Norplant has raised a wide range of issues that could offer valuable lessons about the problems to be addressed if other new contraceptive technologies are to enter the marketplace. In April 1997 an Institute of Medicine workshop on implant contraceptives reviewed newly available data on Norplant’s efficacy, safety, and user identified lessons to be learned about the method’s development, introduction, use, and market experience; and explored approaches to developing and introducing new contraceptives based on those lessons. This resulting book contains an examination of Norplant’s efficacy and safety, its user populations, training for insertion and removal, consumer perspectives (quality of care, informed decisionmaking, and consumer involvement), and new approaches to contraceptive development and introduction. An appendix contains summaries of 17 workshop presentations.

Chitosan Based Biomaterials: Fundamentals, Volume 1, provides the latest information on chitosan, a natural polymer derived from the marine material chitin. Chitosan displays unique properties, most notably biocompatibility and biodegradability. It can also be easily tuned to modify its structure or properties, making chitosan an excellent candidate as a biomaterial. Consequently, chitosan is being developed for many biomedical functions, ranging from tissue engineering and implant coatings to drug and gene delivery. This book looks at the fundamentals of chitosan-based biomaterials. Contains specific focus on the techniques and technologies needed to develop chitosan for biomedical applications Presents a comprehensive treatment of the fundamentals Provides contributions from leading researchers with extensive experience in chitosan

Medical Eligibility Criteria for Contraceptive Use reviews the medical eligibility criteria for use of contraception, offering guidance on the safety and use of different methods for women and men with different characteristics or known medical conditions. The recommendations are based on systematic reviews of available clinical and epidemiological research. It is a companion guideline to Selected Practice Recommendations for Contraceptive Use.

Together, these documents should be used by policy-makers, program managers, and the scientific community to support national programs in the preparation of service delivery guidelines. The fourth edition of this useful resource supersedes previous editions, and has been fully updated and expanded. It includes over 86 new recommendations and 165 updates to recommendations in the previous edition. Guidance for populations with special needs is now provided, and a new annex details evidence on drug interactions from concomitant use of antiretroviral therapies and hormonal contraceptives. To assist users familiar with the third edition, new and updated recommendations are highlighted. Everyone involved in providing family planning services and contraception should have the fourth edition of Medical Eligibility Criteria for Contraceptive Use at hand.

This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches. Features: Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting Presents an in-depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation

Describes the most recent, emerging, and innovative technologies of drug delivery Provides real-life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems—crucial considerations in order to achieve licensing approval for these new technologies

Vocal Fold Injection

Lessons From Norplant

Guidelines for the Psychosocially Assisted Pharmacological Treatment of Opioid Dependence

Peripheral Nerve Stimulation

Pharmaceutical, Clinical, and Regulatory Aspects