Paediatric Drug Handling

#pediatric drug administration #children's medication safety #infant drug dosage #paediatric pharmacology #medication errors in children

Explore the critical aspects of paediatric drug handling, encompassing safe medication administration, accurate pediatric dosing, and strategies to prevent medication errors in children. This guide provides essential information for healthcare professionals and parents on ensuring optimal outcomes and children's medication safety.

Paediatric Drug Handling

This book provides a comprehensive overview of all of the issues pharmacists serving pediatric patients must consider. Chapters relating to pharmacogenomics, medication error prevention, compounding, and government regulations are extremely informative.

Emergency Drug Dosing in Children

New! An essential pocket reference for paediatric emergency medicine. This is a practical, synoptic resuscitation aid providing comprehensive guidelines about equipment sizes and drug doses, including how to prepare, dilute and administer drugs in the emergency room. What's covered in the book: Practical pharmacology in children Overcoming medication errors in the Emergency Department Paediatric resuscitation and teamwork How to use the PAWPER tape and Broselow tape A comprehensive guide to equipment sizing in children Bolus drug dosing guidelines for more than 80 commonly-used emergency drugs Infusion drug dosing guidelines for the most frequently used emergency infusions Useful formulas and information for managing paediatric emergencies Pearls and pitfalls information on emergency drugs and emergency equipment Suitable for: Paediatrics Paediatric critical care Paediatric emergency medicine

Handbook of Pediatric Drug Therapy and Immunization

New! An essential pocket reference for paediatric emergency medicine. This is a practical, synoptic resuscitation aid providing comprehensive guidelines about equipment sizes and drug doses, including how to prepare, dilute and administer drugs in the emergency room. What's covered in the book: Practical pharmacology in children Overcoming medication errors in the Emergency Department Paediatric resuscitation and teamwork How to use the PAWPER tape and Broselow tape A comprehensive guide to equipment sizing in children Bolus drug dosing guidelines for more than 80 commonly-used

emergency drugs Infusion drug dosing guidelines for the most frequently used emergency infusions Useful formulas and information for managing paediatric emergencies Pearls and pitfalls information on emergency drugs and emergency equipment Suitable for: Paediatrics Paediatric critical care Paediatric emergency medicine

Emergency Drug Dosing in Children E-Book

Children's nurses must develop the crucial skills of correct medicines management and calculations in order to provide safe care to their patients. This book specifically supports pre-registration students in meeting the required competencies for medicines management needed to pass formal assessment and qualify as a children's nurse. It is clearly structured around the NMC Essential Skills Clusters for medicines management, covering legal aspects, drugs calculations, administration, storage, record keeping, introductory pharmacology, patient communication and contextual issues in medication. The book is written in user-friendly language and uses patient scenarios to explain concepts and apply theory to practice.

Medicines Management in Children's Nursing

Prescribing for children is a particularly challenging discipline due to specific issues of drug absorption, metabolism, distribution and excretion. The aim of this book is to improve understanding in all aspects of paediatric prescribing, from the development of suitable drugs through to their practical administration. With its origins in the EU-funded Global Research in Paediatrics (GRiP) project this is the first truly international textbook to provide guidance on the principles behind optimal neonatal and paediatric prescribing. Harnessing the international expertise of paediatricians and pharmacists in the field, Prescribing Medicines for Children compliments the British National Formulary for Children (BNFC), facilitating translation of essential pharmacological principles into good prescribing practice. It incorporates specific information on how to promote safe and effective prescribing in paediatrics, including how to avoid medication errors and adverse drug reactions in children. Highlights include the differences in prescribing habits between countries and the shared principles that underpin rational prescribing in paediatrics and neonatology. The book is divided into two sections: Section A provides concise educational material relating to paediatric pharmacology and optimising how medicines are developed and prescribed for children. Section B considers key clinical prescribing areas and can be used as a quick reference guide. Each chapter is focused on the key issues in prescribing for a respective clinical specialty or context. Prescribing Medicines for Children is essential reading for all those who are involved in prescribing medicines to neonates and children. This includes undergraduate and postgraduate pharmacists, nurses, paediatricians and primary care physicians, academic scientists, and those working in the pharmaceutical industry and drug regulation.

Prescribing Medicines for Children

The treatment of children with medicinal products is an important scientific area. It is recognized that many medicines that are used extensively in pediatric patients are either unlicensed or off-label. This textbook will help pediatric health professionals effectively treat children with the most appropriate medicine with minimal side effects.

Paediatric Clinical Pharmacology

This book focuses on the safety efforts being implemented in paediatric drug development. Although children suffer from many of the same diseases as adults and are often treated with the same drugs, only about one-third of the drugs that are prescribed for children have been studied and labelled for paediatric use. This has placed children taking drugs for which there have not been adequate paediatric drug studies at risk of being exposed to ineffective treatment or receiving incorrect dosing. In order to encourage the study of more drugs for paediatric use, Congress passed the Best Pharmaceuticals for Children Act (BPCA) in 2002 to provide marketing incentives to drug manufacturers for conducting paediatric drug studies. Drug manufacturers may obtain six months of additional market exclusivity for drugs on which they have conducted paediatric studies in accordance with pertinent law and regulations. This book also evaluates the impact of BPCA on labelling drugs for paediatric use and the process by which the labelling was changed, and illustrates the range of diseases treated by the drugs studied under BPCA. Additionally this book provides guidance on the role and timing of animal studies in the non-clinical safety evaluation of therapeutics intended for the treatment of paediatric patients. The guidance discusses some conditions under which juvenile animals can be meaningful

predictors of toxicity in paediatric patients and makes recommendations on non-clinical testing. This book consists of public documents which have been located, gathered, combined, reformatted, and enhanced with a subject index, selectively edited and bound to provide easy access.

Safety Efforts in Pediatric Drug Development

Monitoring the safety of medicine use in children is of paramount importance since during the clinical development of medicines only limited data on this aspect are generated through clinical trials. Use of medicines outside the specifications described in the license (e.g. in terms of formulation indications contraindications or age) constitutes off-label and off-license use and these are a major area of concern. These guidelines are intended to improve awareness of medicine safety issues among everyone who has an interest in the safety of medicines in children and to provide guidance on effective systems for monitoring medicine safety in pediatric populations. This book will be of interest to all health care professionals medicine regulatory authorities pharmacovigilance centres academia the pharmaceutical industry and policy-makers. Systems for monitoring medicine safety are described in Annex 1. Pharmacovigilance methods and some examples of recent information on adverse reactions to marketed medicines are discussed in Annex 2.

Promoting Safety of Medicines for Children

As off-label use of medicines in children is no longer acceptable today, paediatric drug development is currently in transition from an almost exclusive academic specialty towards an integrated part of the global process that drives the development of new pharmaceuticals. US and EU governments have made it mandatory for the pharmaceutical industry to investigate medicines in children, thus exposing a multitude of different institutions to paediatric research. Written by exponents of the academia as well as the pharmaceutical industry, regulators and patient advocacy groups, this book explains the background of the US and EU paediatric legislations, gives an analysis of their probable short-, mid- and long-term impact, addresses key operational challenges in paediatric research, and develops a tentative vision where paediatric drug development needs to go. Helping to understand the role of the different stakeholders, the spectrum of readers to profit from this book ranges from paediatricians, general medical personnel and pharmacologists to those involved in regulatory affairs and clinical trials, pharmaceutical company management, patient advocacy groups, ethical committees, politicians and interested lay persons.

Guide to Paediatric Clinical Research

Focused on pediatric physiology, pharmacology, pharmacokinetics and pharmacodynamics, this book illustrates the differences between the pediatric population and adults; knowledge of extreme importance not only during pediatric drug development but also in the clinical practice. Physicians, nurses, clinical pharmacologists, researchers and healthcare professionals will find this an invaluable resource. With the advent of pediatric exclusivity, and requirements to conduct clinical studies in children, an emphasis has been placed on finding a safe and efficacious dose of a drug in children. Children are not ‘small adults’, and drug dosing in this population requires special consideration. There are subtle physiological and biochemical differences among neonates, infants, children, adolescents and adults and dosing in pediatrics requires proper understanding of these factors. Furthermore, dosing in children, as in adults, should be based on pharmacokinetic and pharmacodynamic data. This is an evolving area, as pediatric pharmacokinetic studies are becoming mandatory for getting approval of new drugs in this population.

Fundamentals of Pediatric Drug Dosing

The aim of this document is to provide guidance on how to undertake a paediatric drug optimization (PADO) exercise and identify key priority products for research and development. This guidance is for all technical units undertaking a PADO exercise, all stakeholders involved in PADO processes as well as interested organizations and experts involved in the research and development of therapeutics in the public and private sectors.

Paediatric drug optimization standard procedure

Pediatric Drug Development, Second Edition, encompasses the new regulatory initiatives across EU, US and ROW designed to encourage improved access to safe and effective medicines for children. It

includes new developments in biomarkers and surrogate endpoints, developmental pharmacology and other novel aspects of pediatric drug development.

Pediatric Drug Development

The Pediatric Dosage Handbook has been the trusted resource for medical professionals managing pediatric patients for over 12 years. This reference is organized into convenient sections for easy retrieval of critical information. Section one is introductory text, including helpful guidelines on the use of the handbook. Section two encompasses 778 drug monographs, listed alphabetically with extensive cross-referencing. Section three is the Appendix, with hundreds of charts and reviews of special topics, such as guidelines for treatment and therapy recommendations. The valuable Therapeutic Category and Key Word Index is found in section four.

Pediatric Dosage Handbook

The Best Pharmaceuticals for Children Act (BPCA) and the Pediatric Research Equity Act (PREA) were designed to encourage more pediatric studies of drugs used for children. The FDA asked the IOM to review aspects of pediatric studies and changes in product labeling that resulted from BPCA and PREA and their predecessor policies, as well as assess the incentives for pediatric studies of biologics and the extent to which biologics have been studied in children. The IOM committee concludes that these policies have helped provide clinicians who care for children with better information about the efficacy, safety, and appropriate prescribing of drugs. The IOM suggests that more can be done to increase knowledge about drugs used by children and thereby improve the clinical care, health, and well-being of the nation's children.

Safe and Effective Medicines for Children

Until the 1990s, it was generally accepted that medicines were first developed for adults and their use in children was investigated later, if at all. One of the main tasks of hospital pharmacies was the manufacturing of child-appropriate formulations in a more or less makeshift way. The first change came in 1997 with U.S. legislation that rewarded manufacturers to do voluntary pediatric research. Ten years later, the European Union passed legislation that required manufacturers to discuss all pediatric aspects, including formulations, with the regulatory authorities as a condition of starting the registration procedure. In consequence, manufacturers must now cover all age groups, including the youngest ones. So far, pediatric formulations were more a focus for academic researchers. Through the changed regulatory environment, there is now a sudden high commercial demand for age-appropriate formulations. This book begins by highlighting the anatomical, physiological and developmental differences between adults and children of different ages. It goes on to review the existing technologies and attempts to draw a roadmap to better, innovative formulations, in particular for oral administration. The regulatory, clinical, ethical and pharmaceutical framework is also addressed.

Pediatric Formulations

Prescribing for children is problematic. Children are not small adults in terms of their physiology, and they cannot be subjects in clinical trials. This makes prescribing for them something of an art and a daunting one at that for trainees. Will Carroll (co-editor of the Illustrated Textbook of Paediatrics amongst other titles for paediatrics trainees) with a team of fellow paediatricians and a hospital pharmacist have sought to demystify prescribing for children. The team has identified what from their experience are the most common drugs prescribed to children and have addressed each one, adding detail about how each medicine works. Each chapter follows the ABCDE structure covering Absorption, Biological effects, Clearance, Dosing and side Effects in children. This book is a succinct, portable reference, modelled closely on Hitchings et al.: The Top 100 Drugs. Written in conjunction with a hospital pharmacist for drug expertise. User-friendly double-page-spread approach. Each drug entry preceded by clinical pharmacology information with consistent headings: Why and when; Absorption; Biology. Each drug presented in consistent categories: Clearance; Dosing; Administration; Side effects and interactions; Monitoring and Cost.

Practical Paediatric Prescribing E-Book

It is now more than ten years since the publication of the first edition of Textbook of Paediatric Emergency Medicine and interest in this specialty continues to grow at a local and international

level. Paediatric emergency medicine can be a challenging and difficult area for doctors. Children cannot always communicate their problems verbally, while parents are anxious and the possibility of a missed diagnosis is ever present. Although the principles in managing paediatric patients are the same as adults there are significant differences in patterns of illness and response. In addition, the therapies available vary widely between adult and paediatric practice. Textbook of Paediatric Emergency Medicine provides clear, concise and comprehensive coverage of all the major topics that present within paediatric emergency medicine. It offers a consensus approach to diagnosis and treatment, drawing on the latest evidence available. Short chapters with key point boxes allow for the quick and easy retrieval of information, essential when time is short. This Third Edition captures the major changes in guidelines across the specialty in the assessment and management of paediatric patients, whilst refining established approaches to practice. The text reviews both new technologies and the better application of older techniques which have led to changes in practice. There are significant updates to the sections on resuscitation and trauma, the clinical applications of bedside ultrasound, analgesia and sedation. There is also a new focus on the teaching and research sections.

Textbook of Paediatric Emergency Medicine

Pediatric Drug Development: Concepts and Applications is designed as a reference and textbook and is meant to address the science of differences between the pediatric and adult subject in the development of pharmaceutical products. Considered are the ethics and medical needs of proper understanding the pediatric and adult differences, the business case for proper development of drugs for children, as well as the technical feasibility studies and processes that are necessary for a proper pediatric drug development program. The applications of these approaches will benefit all stakeholders and ultimately not only educate but also provide better and safer drugs for pediatric patients.

Pediatric Drug Development

Decades of research have demonstrated that children do not respond to medications in the same way as adults. Differences between children and adults in the overall response to medications are due to profound anatomical, physiological, and developmental differences. Although few would argue that children should receive medications that have not been adequately tested for safety and efficacy, the majority of drugs prescribed for children-50 to 75 percent-have not been tested in pediatric populations. Without adequate data from such testing, prescribing drugs appropriately becomes challenging for clinicians treating children, from infancy through adolescence. Addressing the Barriers to Pediatric Drug Development is the summary of a workshop, held in Washington, D.C. on June 13, 2006, that was organized to identify barriers to the development and testing of drugs for pediatric populations, as well as ways in which the system can be improved to facilitate better treatments for children.

International Paediatric Drug Safety Studies

Mosby's Pediatric Drug Consult is a portable drug handbook that includes all essential data pediatric nurses need for administering the most commonly-used generic and trade name drugs. Extensive pediatric considerations are presented for each drug in a concise, practice-oriented framework. The information for this comprehensive pediatric drug source is derived from the extensive database maintained for Mosby's Drug Consult, containing the most current drug information. Quarterly online drug updates are available on a companion website. Full monographs on the most commonly used drugs in pediatric practice Functional order of headings that follow a logical clinical progression Outstanding consultant team of pediatric and pharmaceutical experts Extensive pediatric considerations in a concise, practice-oriented framework Detailed IV drug information for pediatric patients A quick reference with a listing and page references to commonly administered drugs Critical nursing considerations to identify situations that require special attention Functional two-color design that highlights key information for quick, easy reference Flexible, water-resistant cover that provides durability in the clinical setting Twenty full-color photographs of commonly prescribed medications to help in identifying drugs by their appearance Appendices include comparative drug charts, conversion tables, and other reference information. Free updates are available on a companion website.

Addressing the Barriers to Pediatric Drug Development

The Paediatric Injectable Guidelines are compiled by pharmacists at The Royal Children's Hospital Melbourne to assist in the safe and effective administration of injectable medicines in children.

Pediatric Drug Doses

The objective of this volume is to give an overview of the present state of the art of pediatric clinical pharmacology including developmental physiology, pediatric-specific pathology, special tools and methods for development of drugs for children (assessment of efficacy, toxicity, long-term safety etc.) as well as regulatory and ethical knowledge and skills. In the future, structural and educational changes have to lead back to a closer cooperation and interaction of pediatrics with (clinical) pharmacology and pharmacy.

Mosby's Pediatric Drug Consult

This manual is a compendium of more than 400 drugs used in paediatric practice. Arranged alphabetically and colour-coded, each page represents a different drug. Each drug is introduced with quick reference, at a glance indications and dosing tips. Detailed descriptions of category, route, strength, brands, mechanism of action, pharmacokinetics, indications, dosage, dose adjustments, adverse effects, contraindications, and drug interactions, follow. This comprehensive guide is invaluable for all practitioners, nurses, pharmacists, and trainees involved in paediatric care.

Pediatric Drug Doses

Lexi-Comp's Pediatric Dosage Handbook with International Trade Names Index, 16th Edition, continues as the most trusted dosing reference for neonates, infants, and children. This practical guide includes an alphabetical drug section, a comprehensive appendix of comparative charts, tables, and supporting information, a therapeutic category and key word index, and an international index with trade names from over 100 countries. With this edition, the handbook employs a new size and two-column format, making it easier than ever to use. Drug monographs provide up to 39 fields of pharmacology detail, including neonatal dosing, drug administration, and extemporaneous preparations. Other fields of interest include warnings, precautions, adverse reactions, drug interactions, patient information and more. The Pediatric Dosage Handbook with International Trade Names Index is the ideal point-of-care resource for medical professionals managing pediatric patients. 855 Drug Monographs Over 100 Extemporaneous Preparation Recipes Over 300 Pages of Appendix Information Book jacket.

Paediatric Injectable Guidelines 2020

This guide provides immediate, comprehensive drug information in a straightforward format. It contains information on artificial surfactants, antibiotics, antifungal agents, antiemetics, and vaccines. Recommendations for new indications for other products have been added. A new Appendix furnishes a concise approach to basic bedside pharmacokinetics.

Pediatric Clinical Pharmacology

The Institute of Medicine's (IOM's) Roundtable on Research and Development of Drugs, Biologics, and Medical Devices evolved from the Forum on Drug Development, which was established in 1986. Sponsor representatives and IOM determined the importance of maintaining a neutral setting for discussions regarding long-term and politically sensitive issues justified the need to revise and enhance past efforts. The new Roundtable is intended to be a mechanism by which a broad group of experts from the public* and private sectors can be convened to conduct a dialogue and exchange information related to the development of drugs, biologics, and medical devices. Members have expertise in clinical medicine, pediatrics, clinical pharmacology, health policy, health insurance, industrial management, and product development; and they represent interests that address all facets of public policy issues. From time to time, the Roundtable requests that a workshop be conducted for the purpose of exploring a specific topic in detail and obtaining the views of additional experts. The first workshop for the Roundtable was held on April 14 and 15, 1998, and was entitled Assuring Data Quality and Validity in Clinical Trials for Regulatory Decision Making. The summary on that workshop is available from IOM. This workshop summary covers the second workshop, which was held on May 24 and 25, 1999, and which was aimed at facilitating the development and proper use of drugs, biologics, and medical devices for infants and children. It explores the scientific underpinnings and clinical needs, as well as the regulatory, legal, and ethical issues, raised by this area of research and development.

Pediatric Drug Companion

The Paediatric Injectable Guidelines are compiled by pharmacists at The Royal Children's Hospital Melbourne to assist in the safe and effective administration of injectable medicines in children.

Pediatric Dosage Handbook with International Trade Names Index

Topics covered are preparation of drugs for parental use, methods of administration for intravenous use, vial and ampoule labelling, use and storage and alphabetical drug listing.

The Pediatric Drug Handbook

Pediatric Injectable Drugs, also known as “The Teddy Bear Book,” is one of the ASHP’s most recognized and trusted resources dedicated to helping pharmacists treat pediatric patients with injectable drugs. For more than 20 years, pharmacists and hospital pediatric teams have looked to Pediatric Injectable Drugs (The Teddy Bear Book) for the most comprehensive research-based information on pediatric intravenous infusions. Now for the first time since 2013, a new edition of this trusted resource is available! The “Teddy Bear Book”, is the only reference of its kind that focuses on the unique issues that pediatric practitioners face when dealing with pediatric injectable drugs, such as limited fluid amounts, limited intravenous sites, and maximum doses. The updated edition of this comprehensive resource by respected editors Stephanie J. Phelps, PharmD, BCPS, Kelley R. Lee, PharmD, Amanda Jill Thompson, PharmD, and Tracy M. Hagemann, PharmD, FCCP, includes 15 new monographs and updates based on the latest evidence-backed literature.

Rational Therapeutics for Infants and Children

Written for all pediatric clinicians and students, Problems in Pediatric Drug Therapy is an authoritative, well-referenced, and accessible source of essential information on the use and effects of drugs in infants and children. Twenty widely published clinicians, educators, and researchers from pharmacy, medicine, and nursing have authored 14 chapters, each dealing with a major, potentially problematic area of pediatric drug therapy. Building on the well-received previous editions -- the third edition was named an American Journal of Nursing Book of the Year in the category of pediatric nursing -- the fourth edition focuses on the key concerns in pediatric drug therapy today: drug administration, pharmaco-kinetics, drugs as teratogens and fetotoxins, excretion of drugs into breast milk, pediatric poisoning, adverse reactions, drug interactions, drug abuse, IV drugs, and immunizations. Two new chapters cover the increasingly important areas of pediatric antineoplastic therapy and pharmacogenetics. The concluding two hallmark chapters on dosing in neonates and in infants, children, and adolescents, respectively, have been expanded and updated to reflect current trends in drug use.

Paediatric Injectable Guidelines 5th Edition

A concise and practical guide to caring for children with life-limiting conditions, 'Paediatric Palliative Medicine' covers the common symptoms and challenging issues healthcare professionals are likely to encounter, and includes a detailed drug formulary for quick reference.

Paediatric Injectable Guidelines

Serves as a ready-reckoner of drug dosages for young residents and practising pediatricians which will instil confidence in their prescribing abilities and reduce the incidence of avoidable side effects of drugs. It provides brief Information on the pharmacokinetics of drugs with an emphasis on the advantages and disadvantages of various routes of administration, drug absorption, distribution, bioavailabillty, tissue binding, half-life and metabolism and excretion. The drugs have been listed alphabetically with dally dosages per unit body weight, frequency, and route of administration. Important cautions, contraindications and adverse effects of selected drugs have been provided. Trade names of formulations from standard pharmaceutical companies along with their products and strengths are also given.

Pediatric Injectable Drugs: The Teddy Bear Book

'Anyone practising generalist paediatrics should have the material within these chapters either hard-wired in, or at the fingertips. This book is ideal for the primary care bookshelf...The authors have ensured that clinicians' paediatric knowledge and skills can only grow with familiarity of their material.' From the Foreword by John Spicer Essential Paediatrics in Primary Care covers the entire breadth of paediatric practice. Written by a team with frontline experience of the challenges and

dilemmas faced in diagnosing and treating children in primary care, this practical text contains clear, evidence-based guidance about managing children in primary care and considers when referral to hospital is appropriate. The concise, list-based format enables a rapid, confident and knowledgeable diagnosis to be reached in the short time available in general practice. This reference book is invaluable for General Practitioners and GP trainees wanting to keep abreast of recent progress in paediatric care, but is also ideal for nurse practitioners, health visitors, medical students and paediatricians considering a career in general practice.

Problems in Pediatric Drug Therapy

In 1996 the Institute of Medicine launched the Quality Chasm Series, a series of reports focused on assessing and improving the nation's quality of health care. Preventing Medication Errors is the newest volume in the series. Responding to the key messages in earlier volumes of the seriesâ€"To Err Is Human (2000), Crossing the Quality Chasm (2001), and Patient Safety (2004)â€"this book sets forth an agenda for improving the safety of medication use. It begins by providing an overview of the system for drug development, regulation, distribution, and use. Preventing Medication Errors also examines the peer-reviewed literature on the incidence and the cost of medication errors and the effectiveness of error prevention strategies. Presenting data that will foster the reduction of medication errors, the book provides action agendas detailing the measures needed to improve the safety of medication use in both the short- and long-term. Patients, primary health care providers, health care organizations, purchasers of group health care, legislators, and those affiliated with providing medications and medication- related products and services will benefit from this guide to reducing medication errors.

Paediatric Palliative Medicine

This book explains the importance and practice of pediatric drug testing for pharmaceutical and toxicology professionals. It describes the practical and ethical issues regarding non-clinical testing to meet US FDA Guidelines, differences resulting from the new European EMEA legislation, and how to develop appropriate information for submission to both agencies. It also provides practical study designs and approaches that can be used to meet international requirements. Covering the full scope of non-clinical testing, regulations, models, practice, and relation to clinical trials, this text offers a comprehensive and up-to-date resource.

Drug Dosages in Children

Essential Paediatrics in Primary Care