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Extended Stability for Parenteral Drugs Parenteral Medications Fourth Edition The Syringe Driver Handbook of Drug Administration via Enteral Feeding Tubes, 3rd edition Handbook on Injectable Drugs Role of Lipid Excipients in Modifying Oral and Parenteral Drug Delivery Development of Biopharmaceutical Parenteral Dosage Forms Quality Assurance of Aseptic Preparation Services Validation of Pharmaceutical Processes Compounding Sterile Preparations Aulton's Pharmaceutics Development of Biopharmaceutical Parenteral Dosage Forms Trissel's Stability of Compounded Formulations Competence Assessment Tools for Health-System Pharmacies Remington Pediatric Injectable Drugs Math and Meds for Nurses Sterile Drug Products Clinical Pharmacy and Therapeutics Handbook of Institutional Pharmacy Practice Update in Intensive Care and Emergency Medicine Competitive Problems in the Drug Industry Competitive problems in the drug industry ASHP (R) INJECTABLE DRUG INFORMATION (TM), 2021 EDITION Nutrition for the Hospitalized Patient Applied Pharmacology for Veterinary Technicians - E-Book Drug Information A Guide for Pharmacists 5/E Submicron Emulsions in Drug Targeting and Delivery Pocket Book of Hospital Care for Children Nutrition Support Practice Manual Methods of Development of New

Anticancer Drugs Basic Sciences of Nuclear Medicine Essentials of Cardiopulmonary Physical Therapy - E-Book The 5 Minute Pediatric Consult Pharmaceutical Dosage Forms Handbook of Pharmaceutical Salts Properties, Selection, and Use Parenteral Medications, Fourth Edition Differential Diagnosis of Cardiopulmonary Disease GMP in Practice Pharmaceutical Manufacturing Handbook

This text serves as a valuable reference source, providing a comprehensive review of syringe driver use and administration of drugs via CSCI, a safe and effective way of drug administration when other routes are inappropriate. Now in full color, Applied Pharmacology for Veterinary Technicians, 5th Edition shows you how to administer prescribed drugs to animals, calculate drug dosages accurately, and instruct clients about side effects and precautions. Coverage of drug information includes pharmacokinetics, pharmacodynamics, clinical uses, dosage forms, and adverse effects. An Evolve companion website enhances the book with narrated videos demonstrating drug administration techniques, animations of pharmacologic processes, dosage calculation exercises, and much more. Written by veterinary technology experts Boyce Wanamaker and Kathy Lockett Massey, this resource provides the pharmacology knowledge you need to succeed as a vet tech! Illustrated, step-by-step procedures demonstrate proper administration techniques for common drug forms. Body systems organization provides a logical sequence of study, followed by anti-infectives, antiparasitics, anti-inflammatory agents, and others. Dosage calculation exercises provide practice immediately after new information is presented. Proprietary drug names are listed with generic drug names, highlighting drugs with generic options. Review questions reinforce understanding of key

concepts, with answers located in the back of the book. An Evolve companion website provides drug administration videos, drug calculators with accompanying word problems, photos of drug labels, animations of pharmacologic processes, and dosage calculation exercises. Key terms, chapter outlines, and learning objectives at the beginning of each chapter make studying easier. Technician Notes provide useful hints and important reminders to help you avoid common errors and increase your efficiency. UNIQUE Pharmacy Management and Inventory Control chapter offers practical tips relating to vendor types, communicating with sales representatives, and using veterinary practice management software. Now in full color, UPDATED drug information keeps you current with the latest pharmacologic agents and their uses, adverse side effects, and dosage forms. NEW coverage of stem cell treatment in Immunologic Drugs chapter addresses scientific advances in this area. UPDATED fluid therapy chapter explains the role of parenteral fluids, oral fluids, and nutritional products in drug therapy. This comprehensive resource covers the fundamentals, formulation, and biopharmaceutical issues of lipid-based drug delivery. It presents the principles of lipid absorption and covers formulation issues, such as dissolution testing and stability testing, and physiological and biopharmaceutical issues, including the role of specific enzymes, the evaluation of transport systems in the body, and the mechanisms governing the transport of water-insoluble drugs. Completely updated and enlarged to three volumes (originally published as two volumes), the Second Edition of Pharmaceutical Dosage Forms: Parenteral Medications examines every important aspect of sterile drug products. This volume (3) offers comprehensive coverage of medical devices, quality assurance and regulatory issues.;This in-depth reference

and text: discusses regulatory requirements in record-keeping based on the US Food and Drug Administration's (FDA) Current Good Manufacturing Practices; places special emphasis on methods of detecting, counting and sizing particles; offers new perspectives on contemporary validation concepts and how they affect the validation process; explains current FDA enforcement activities, the voluntary compliance policy, select court cases, and how these relate to parenterals; provides recent materials on the use of audits as a means of verifying the efficacy of manufacturing control systems; highlights new US regulations for medical devices; and examines quality assurance, including new information on biological control tests for medical device materials.;With the contributions of leading experts, volume 3 of Pharmaceutical Dosage Forms: Parenteral Medications is intended as a day-to-day reference for pharmacists, medical device manufacturers, quality control and regulatory personnel, chemists and drug patent and litigation attorneys, as well as a text for upper-level undergraduate, graduate and continuing-education students in the pharmaceutical sciences. This comprehensive up-to-date guide and information source is an instructive companion for all scientists involved in research and development of drugs and, in particular, of pharmaceutical dosage forms. The editors have taken care to address every conceivable aspect of the preparation of pharmaceutical salts and present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts. Altogether, the contributions reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products. The Pocket Book is for use by doctors nurses and other health workers who are responsible for the care of young children at the first level referral

hospitals. This second edition is based on evidence from several WHO updated and published clinical guidelines. It is for use in both inpatient and outpatient care in small hospitals with basic laboratory facilities and essential medicines. In some settings these guidelines can be used in any facilities where sick children are admitted for inpatient care. The Pocket Book is one of a series of documents and tools that support the Integrated Managem. Completely revised and updated to reflect the significant advances in pharmaceutical production and regulatory expectations, this third edition of Validation of Pharmaceutical Processes examines and blueprints every step of the validation process needed to remain compliant and competitive. The many chapters added to the prior compilation examine va Based on best practices prescribed in The Guide to Physical Therapist Practice, Essentials of Cardiopulmonary Physical Therapy, 3rd Edition provides comprehensive coverage of anatomy and physiology, assessment, and aspects of the cardiopulmonary systems, with a focus on their interaction. The disablement model is used in describing the eight cardiopulmonary practice patterns. Expert author Ellen Hillegass also discusses pathophysiology, pharmacology, and interventions in the outpatient setting. Incorporating Guide language, her practical approach progresses logically from basic sciences through intervention, and emphasizes lifespan considerations. Material follows The Guide to Physical Therapist Practice 2nd Edition, reflecting best practices as defined by the American Physical Therapy Association. Evidence-based content is based on the latest research in the field. Case studies show the application of concepts with real-world examples. Pharmacology chapters reflect both the rehabilitation background of physical therapists and the pharmaceutical expertise of a

pharmacist. A focus on wellness follows the disablement model. Information on geriatric and pediatric cardiopulmonary physical therapy is easy to apply to patient situations. Testing for both cardiac and pulmonary dysfunction is conveniently located in a single chapter. Cardiovascular medication information covers the latest drugs used in cardiopulmonary physical therapy. Information on thoracic organ transplantation simplifies and explains these complex procedures. NEW chapters cover the lymphatic system and pediatrics. Revised chapters on cardiopulmonary anatomy and physiology differentiate between information that is need to know and that is nice to know. An Evolve companion website includes medical animations to illustrate concepts, along with a glossary, glossary exercises, and reference lists from the book linked to MEDLINE abstracts. This up-to-the-minute reference delineates-in a systematic fashion-the appropriate, sequential steps for the formulation of safe, effective, stable, and marketable liquid parenteral biopharmaceutical products-covering fundamentals and essential pathways for each phase as well as its purpose, function, and relation to other stages in the product development process. Written by experts currently involved in state-of-the-art advances in the pharmaceutical drug industry, Development of Biopharmaceutical Parenteral Dosage Forms details biopharmaceuticals that are licensed or undergoing clinical development, including genetically engineered cell and engineered vectors in the fermentation process describes purification and characterization techniques for rDNA therapeutics, discussing several types of unit operations for isolation, purification, and characterization considers preformulation and formulation requirements, such as physicochemical properties, drug delivery, stability studies programs,

deactivation/denaturation routes, selection of compatible excipients, and regulatory compliance elucidates basics of analytical techniques, methods development, separation methods using chromatographic and electrophoretic techniques, and bioactivity methods covering bioassays and immunoassays for quantifying the stability of biological activity shows how to select the appropriate filter for maximizing compatibility and minimizing adsorption and inactivation, examining topics from basic filtration theories to future trends reviews the selection process for compatible elastomeric closures, analyzing physical, chemical, toxicological properties, protein adsorption on elastomeric surfaces, strategies to reduce/eliminate adsorption, and specialized containers for biotechnological applications and more! Furnished with helpful references, tables, and drawings, this practical guide is indispensable Using a programmed approach, this new book provides essential aides in learning and reviewing basic math and calculations of drugs and solutions. Its five units include: mathematics review, measuring systems and abbreviations, oral and parenteral medications, intravenous medications and fluids, and applications and review. The book also covers the popular ratio-proportion method of calculation. This clinical handbook is designed to aid with the fast and accurate diagnosis of cardiopulmonary disease. Chapters are structured to support the clinical decision-making process and cover key points such as differential diagnosis, typical and atypical presentation, co-morbidities, and critical steps that should not be missed. The text also outlines time-dependent interventions, overall principles of treatment, and disease course. Abundant images and links to external audio and video resources reinforce understanding. Although the chapters are organized to provide ready access to

essential information, the scope of the book is comprehensive and addresses topics including acute coronary syndrome, heart failure, pulmonary embolism, primary and secondary lung diseases, and relevant upper gastrointestinal and neuromuscular diseases. Both adult and pediatric considerations are presented. The book is intended for diagnosticians in emergency medicine, critical care, inte rnal medicine, primary care, and related fields. Medical students, residents, and other medical professionals will appreciate the concise and clear approach.
"Pharmaceutics is the art of pharmaceutical preparations. It encompasses design of drugs, their manufacture and the elimination of micro-organisms from the products. This book encompasses all of these areas."--Provided by publisher.
This work offers detailed coverage of the biochemical and metabolic framework that forms the basis for the current theory of nutrition support. It presents analyses of the practical aspects of providing nutrition to hospitalized patients, and examines nutrition support in critical care and sepsis, cancer, gastrointestinal disease, cardiac and pulmonary disease, burns, renal failure, newborns and children, pregnancy, AIDS, neurological impairment and perioperative patients. Nuclear medicine has become an ever-changing and expanding diagnostic and therapeutic medical profession. The day-to-day innovations seen in the field are, in great part, due to the integration of many scientific bases with complex technologic advances. The aim of this reference book, Basic Sciences of Nuclear Medicine, is to provide the reader with a comprehensive and detailed discussion of the scientific bases of nuclear medicine, covering the different topics and concepts that underlie many of the investigations and procedures performed in the field. Topics include radiation and nuclear physics, Tc-99m chemistry, single-photon

radiopharmaceuticals and PET chemistry, radiobiology and radiation dosimetry, image processing, image reconstruction, quantitative SPECT imaging, quantitative cardiac SPECT, small animal imaging (including multimodality hybrid imaging, e.g., PET/CT, SPECT/CT, and PET/MRI), compartmental modeling, and tracer kinetics. As manufacturing and distribution practices get more complex and more global, manufacturers cannot just focus on one or two sets of requirements - it is too difficult to operate a quality system that has a multitude of variations to meet the individual requirements of a particular national authority. Most multinational firms and those supplying global markets have done what national authorities have not - they have created quality systems and quality system elements that internally harmonize GMP expectations. Yes, there still are some unique requirements that need to be met, but having a majority of requirements harmonized reduces duplication and increases flexibility. GMP in Practice, 4th Edition is intended to help with that harmonization. In it, we will look at more than 30 elements that are typically included in a modern pharmaceutical quality system. Each quality system element has an overview section, some risk- related questions, and 3-10 expectations. Each expectation is explored in a bit more detail and examples from GMP references from the US FDA, Health Canada, the European Union, the World Health Organization, and the International Conference on Harmonization (ICH) are presented. In order to get a rich understanding of GMP, a person needs to have knowledge of what various national authorities expect. This book is designed to help you achieve this goal. Parenteral Medications is an authoritative, comprehensive reference work on the formulation and manufacturing of parenteral dosage forms, effectively balancing

theoretical considerations with practical aspects of their development. Previously published as a three-volume set, all volumes have been combined into one comprehensive publication that addresses the plethora of changes in the science and considerable advances in the technology associated with these products and routes of administration. Key Features: Provides a comprehensive reference work on the formulation and manufacturing of parenteral dosage forms Addresses changes in the science and advances in the technology associated with parenteral medications and routes of administration Includes 13 new chapters and updated chapters throughout Contains the contributors of leading researchers in the field of parenteral medications Uses full color detailed illustrations, enhancing the learning process The fourth edition not only reflects enhanced content in all the chapters but also highlights the rapidly advancing formulation, processing, manufacturing parenteral technology including advanced delivery and cell therapies. The book is divided into seven sectionss: Section 1 - Parenteral Drug Administration and Delivery Devices; Section 2 - Formulation Design and Development; Section 3 - Specialized Drug Delivery Systems; Section 4 - Primary Packaging and Container Closure Integrity; Section 5 - Facility Design and Environmental Control; Section 6 - Sterilization and Pharmaceutical Processing; Section 7 - Quality Testing and Regulatory Requirements Sterile Drug Products: Formulation, Packaging, Manufacturing, and Quality teaches the basic principles of the development and manufacture of high quality sterile dosage forms. The author has 38 years of experience in the development and manufacture of sterile dosage forms including solutions, suspensions, ophthalmics and freeze dried products. This book is based on the courses he has delivered

for over three decades, to over 3000 participants, and is intended to remain relevant for the indefinite future even as new technologies and new applications of old technologies become common. This is an ideal reference book for those working directly and indirectly with sterile dosage forms, be it product development (formulation, package, process, analytical), manufacturing, quality control, quality assurance, regulatory, purchasing, or project management. This book is also intended as an educational resource for the pharmaceutical and biopharmaceutical industry and pharmacy schools, providing basic knowledge and principles in four main areas of parenteral science and technology: Product development, including formulation, packaging, and process development. Manufacturing, including basic teaching on all the primary unit operations involved in preparation of sterile products and the underlying importance of contamination control. Quality and regulatory, including the application of good manufacturing practice regulations, aseptic processing guidelines, and unique quality control testing methods for the sterile dosage form Clinical aspects, including administration, potential hazards, and biopharmaceutics of sterile products in a clinical setting. With over 400 drug monographs, this book covers the technical, practical and legal aspects that you should consider before prescribing or administering drugs via enteral feeding tubes. ASHP's sixth edition of Extended Stability for Parenteral Drugs covers all aspects of determining stability, including the changing elastomeric landscape and the ongoing variability in stability data. With its expanded coverage, many updates, and new information, this new edition provides even more support, making it a ""must have"" for any practice. With its coverage of Food and Drug Administration regulations,

international regulations, good manufacturing practices, and process analytical technology, this handbook offers complete coverage of the regulations and quality control issues that govern pharmaceutical manufacturing. In addition, the book discusses quality assurance and validation, drug stability, and contamination control, all key aspects of pharmaceutical manufacturing that are heavily influenced by regulatory guidelines. The team of expert authors offer you advice based on their own firsthand experience in all phases of pharmaceutical manufacturing. A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed Quality Assurance of Aseptic Preparation Services Standards Handbook (also known as the Yellow Guide) provides standards for unlicensed aseptic preparation in the UK, as well as practical information to aid implementation of the standards. The handbook delivers essential standards in a practical way and in a format that will be useful for pharmacy management, staff working in aseptic preparation units and those whose role it is to audit the services. The accompanying support resources help with understanding the complexities of relevant topics including microbiology, radiopharmaceuticals, advanced therapy medicinal products, technical (quality) agreements and capacity planning. All the standards have been revised and updated for this 5th edition. The text is produced on behalf of the Royal Pharmaceutical Society (RPS) and the NHS Pharmaceutical Quality Assurance Committee. New in this edition: Replaces the 4th edition standards and forms the basis for an ongoing audit program in the NHS Many new and revised standards Greater emphasis on Pharmaceutical Quality Systems; the

responsibilities of pharmacy management, Chief Pharmacists (or equivalent), has been expanded in line with developments in Good Manufacturing Practice Reformatted into 2 parts: standards and support resources. This is a new collaboration between the RPS and NHS. Since the previous edition the RPS has become the professional body for pharmacists and pharmaceutical scientists. RPS launched these standards as part of a library of professional standards and a programme of work to create standards for all areas of pharmacy. The Handbook is essential for pharmacists, hospital pharmacy management and technical services teams, and auditors of unlicensed NHS hospital pharmacy aseptic preparation services in the UK, pharmacists and regulators. The text is used to inform standards used in several other countries. Since its original publication, Competence Assessment Tools for Health-System Pharmacies has continued to meet the changing needs of pharmacy directors and their staff. Designed as a complete human resource competence assessment program, this benchmark resource ensures pharmacies comply with the competence assessment standards of The Joint CommissionÔ. Newly updated and revised, Competence Assessment provides practical tools to assess and document an employee's ability to perform assigned duties and meet Joint Commission human resource requirements. Save time and increase efficiency with this essential tool that supplements and reinforces staff knowledge in key competency areas. New to the Fourth Edition: Enhanced CD-ROM allows you to easily adapt many of the forms for your own practice including the job descriptions and orientation record. • Updated resources for customizing job descriptions, including job description, competence assessment summary, and performance evaluation

templates for a Pharmacy Purchasing Technician. • Inclusion of a study guide for the emergency management chapter. • New chapters on intravenous to oral therapy conversion and antibiotic streamlining. • Expanded information in the hazardous materials chapter including the requirements of the Resource Conservation and Recovery Act (RCRA) and practice recommendations from the National Institute for Occupational Safety and Health (NIOSH) and ASHP. • Updated controlled substances chapter including information about the Combat Methamphetamine Epidemic Act. • New test questions in many chapters including use of a patient case report format for tests in the clinically-oriented chapters.
For more than two decades, Pediatric Injectable Drugs (The Teddy Bear Book), has served an important and continuing need for reliable evidence-based information specific to pediatric injectable drugs. The tenth edition of this invaluable reference has grown to cover 238 drugs commonly used in the treatment of infants and children, including 20 new to this edition. It is anticipated that submicron emulsion and lipid suspension will find numerous and novel medical applications in the near future. The purpose of this multi-authore book is to provide the reader with an up-to-date general overview of submicron emulsions and lipid suspensions (solid lipid nanoparticles) as well as to emphasize the various methods of preparation, characerization, evaluation and potential applications in various therapeutic areas. Leading authors have contributed to this unique book which contains all state of the art and detailed knowledge related to the physico-chemical, pharmaceutical and medical aspects of these most interesting but complex dosage forms, thus making this information easily available to the reader. This book will be of interest to scientists working in the field of drug delivery and targeting in universities as well

as in the pharmaceutical, food, cosmetic, veterinary and chemical industries. This up-to-the-minute reference delineates-in a systematic fashion-the appropriate, sequential steps for the formulation of safe, effective, stable, and marketable liquid parenteral biopharmaceutical products-covering fundamentals and essential pathways for each phase as well as its purpose, function, and relation to other stages in the product development process. Written by experts currently involved in state-of-the-art advances in the pharmaceutical drug industry, Development of Biopharmaceutical Parenteral Dosage Forms details biopharmaceuticals that are licensed or undergoing clinical development, including genetically engineered cell and engineered vectors in the fermentation process describes purification and characterization techniques for rDNA therapeutics, discussing several types of unit operations for isolation, purification, and characterization considers preformulation and formulation requirements, such as physicochemical properties, drug delivery, stability studies programs, deactivation/denaturation routes, selection of compatible excipients, and regulatory compliance elucidates basics of analytical techniques, methods development, separation methods using chromatographic and electrophoretic techniques, and bioactivity methods covering bioassays and immunoassays for quantifying the stability of biological activity shows how to select the appropriate filter for maximizing compatibility and minimizing adsorption and inactivation, examining topics from basic filtration theories to future trends reviews the selection process for compatible elastomeric closures, analyzing physical, chemical, toxicological properties, protein adsorption on elastomeric surfaces, strategies to reduce/eliminate adsorption, and specialized containers for biotechnological

applications and more! Furnished with helpful references, tables, and drawings, this practical guide is indispensable for pharmaceutical, medicinal, and protein chemists; molecular biologists; process engineers; purification scientists; biopharmaceutical and pharmaceutical formulators and product developers; quality control, quality assurance, and regulatory compliance personnel; and upper-level undergraduate and graduate students in these disciplines. Nearly every field has its touchstone. In the ever-changing, data-intense, split-second decision world of parenteral drugs, that touchstone, that premier resource, is the Handbook on Injectable Drugs, 16th Edition. It is the leading injectable drug guide, trusted, turned to and touted the world over for its intuitive, easy to use layout, and its accessible organization and presentation of data. The 16th edition of the Handbook on Injectable Drugs brings together a wealth of information on 349 parenteral drugs commercially available in the United States and in other countries. Compatibility, stability, storage and preparation data for each have been painstakingly referenced and clearly presented. There are 64 new references, for a total of 2,788. Once again, the book is edited by Lawrence A. Trissel, FASHP, as has been the case for over 30 years of continuous publication. And once again, Mr. Trissel and the Handbook on Injectable Drugs set the standard for comprehensiveness, speed, and trustworthiness. The Handbook is also available in a CD-ROM format, which can be bought as a package with the print version. The CD allows you to screen up to five drugs/solutions for compatibility simultaneously, access original research through PubMed, and search concise table summaries of compatibility results. Parenteral Medications is an authoritative, comprehensive reference work on the formulation and manufacturing

of parenteral dosage forms, effectively balancing theoretical considerations with practical aspects of their development. Previously published as a three-volume set, all volumes have been combined into one comprehensive publication that addresses the plethora of changes in the science and considerable advances in the technology associated with these products and routes of administration. All chapters in the new edition have been updated, and there are 13 new chapters. "Helps readers determine whether formulated compounds will be stable for the anticipated duration of use; properly store and repackage compounded formulations; formulate in accordance with documented standards; and, counsel patients on the use and storate of comounded medications." -- Back cover. Empower your staff to improve safety, quality and compliance with the help of new guidelines and standards. We've updated every chapter of this popular review of the fundamentals of preparing sterile products in hospital, home-care, and community pharmacy settings to reflect the most recent revisions to USP . Included are the latest guidelines for the compounding process, quality assurance methods, and comprehensive coverage of all aspects of the dispensing process. Comprehensive documentation for the guidelines is included in the appendices.Chapters new to this edition focus on: Gap analysis and action plans Safe use of automatic compounding devices Cleaning and disinfecting Radiopharmaceuticals as CSPs Allergen extracts as CSPs. The 5 Minute Pediatric Consult provides immediate, practical advice on problems seen in infants, children, and adolescents. More than 450 diseases and conditions are covered in the fast-access two-page outline format that makes The 5-Minute Consult Series titles so popular among busy clinicians. Other features include a Chief Complaints section addressing the workup

and treatment of 50 signs and symptoms, plus a medication index, syndromes glossary, surgical glossary, laboratory values, and tables all for quick reference saving you time and helping to treat your patients more efficiently. In this sixth edition, the 5 Minute Pediatric Consult also offers free 30 day access to the 5minuteconsult Pediatric website -- a clinical decision support tool -- that can be accessed by the health care providers to address questions on-the-go via website or mobile. New Features: New topics for this edition include: Amenorrhea, Asberger Syndrome, Dental Trauma, Head banging, Mental Retardation, Narcolepsy, Obsessive Compulsive Disorder, Separation Anxiety and Social Anxiety Free 30 Day Access to the 5minuteconsult Pediatric Website Includes - More than 450 diseases and conditions to support your patient care decisions Patient education handouts from AAP to help educate your patients Hundreds of Images from Chung's "Visual Diagnosis and Treatment in Pediatrics" and other reputable sources to provide you with quick visual guidance Immunization schedules and charts at your fingertips to save you time from searching Content is optimized for handheld devices so you have access to the content anytime, anywhere Updates to content made on a regular basis to keep you abreast of the latest content Visit 5minuteconsult.com and click on the "go to pediatric consult tab" to learn more about your free access and begin using today! For over 100 years, Remington has been the definitive textbook and reference on the science and practice of pharmacy. This Twenty-First Edition keeps pace with recent changes in the pharmacy curriculum and professional pharmacy practice. More than 95 new contributors and 5 new section editors provide fresh perspectives on the field. New chapters include pharmacogenomics, application of ethical principles to practice dilemmas, technology and

automation, professional communication, medication errors, re-engineering pharmacy practice, management of special risk medicines, specialization in pharmacy practice, disease state management, emergency patient care, and wound care. Purchasers of this textbook are entitled to a new, fully indexed Bonus CD-ROM, affording instant access to the full content of Remington in a convenient and portable format. The classic guide to information management for pharmacists--updated to reflect the realities of today's practice The goal of Drug Information: A Guide for Pharmacists is to teach students and practitioners how to effectively research, interpret, evaluate, collate, and disseminate drug information in the most efficient and effective manner possible. Updated throughout, the book also addresses important issues such as the legal and ethical considerations of providing drug information. The Fifth Edition includes a timely new chapter on assessing drug promotions by pharmaceutical representatives and the need for counter-detailing. There is also a new chapter that bridges the gap between pharmacy informatics and drug information. COVERAGE INCLUDES: Formulating effective responses and recommendations for drug information Evaluation of the drug literature The application of statistical analysis in the biomedical sciences Drug evaluation monographs Adverse drug reactions Medication and patient safety Investigational drugs