

# chapter 26 administration of medication and intravenous therapy

## Chapter 26 Administration of Medication and Intravenous Therapy

**chapter 26 administration of medication and intravenous therapy** serves as a crucial cornerstone in the healthcare field, especially for nurses, medical assistants, and healthcare providers responsible for delivering safe and effective patient care. This chapter dives deep into the principles, techniques, and safety protocols involved in administering medications and managing intravenous (IV) therapy, two fundamental practices that can significantly impact patient outcomes. Whether you're a student studying nursing or a professional refining your skills, understanding these concepts is essential.

## Understanding the Basics of Medication Administration

Medication administration is more than just handing out pills or injecting drugs; it's a meticulous process that requires precision, knowledge, and attention to detail. Chapter 26 administration of medication and intravenous therapy emphasizes the "Five Rights" of medication administration—right patient, right drug, right dose, right route, and right time. These principles are designed to minimize errors and ensure that patients receive their medication safely.

## The Five Rights in Practice

When administering medication, healthcare providers must verify each of the five rights:

- **Right Patient:** Confirming the patient's identity using at least two identifiers, such as name and date of birth.
- **Right Drug:** Checking the medication label against the prescription or order.
- **Right Dose:** Ensuring the dosage matches the prescribed amount, considering patient-specific factors like age and weight.
- **Right Route:** Administering the drug via the correct method—oral, subcutaneous, intramuscular, or intravenous.

- **Right Time:** Giving the medication at the prescribed intervals to maintain therapeutic levels.

Failing to adhere to these rights can lead to medication errors, which may cause adverse drug reactions or therapeutic failure. Chapter 26 administration of medication and intravenous therapy reinforces the importance of double-checking all aspects before proceeding.

## Exploring Intravenous Therapy: An Essential Skill

Intravenous therapy, often abbreviated as IV therapy, involves delivering fluids, medications, or nutrients directly into a vein. This method allows for rapid absorption and precise control over the amount of medication administered. Chapter 26 administration of medication and intravenous therapy covers the different types of IV access devices, from peripheral IV catheters to central lines, and the techniques for maintaining them.

### Types of Intravenous Access

Understanding the various IV devices is fundamental:

- **Peripheral IV Catheters:** Usually inserted into veins in the arms or hands, suitable for short-term therapy.
- **Central Venous Catheters (CVCs):** Inserted into larger veins like the subclavian or jugular, used for long-term therapy or when administering irritant medications.
- **Peripherally Inserted Central Catheters (PICCs):** A type of CVC inserted through peripheral veins but reaching central veins.

Each device requires specific care techniques to prevent complications such as infection, infiltration, or thrombophlebitis. Chapter 26 administration of medication and intravenous therapy outlines the protocols to maintain catheter patency and reduce risks.

### Setting Up an IV Line

Setting up an IV line might seem straightforward, but it demands a careful

approach:

1. **Prepare Equipment:** Gather sterile gloves, IV catheter, tourniquet, antiseptic wipes, IV fluids, and tubing.
2. **Identify Vein:** Palpate and select an appropriate vein, considering patient comfort and accessibility.
3. **Disinfect Site:** Clean the insertion site thoroughly to reduce infection risk.
4. **Insert Catheter:** Using aseptic technique, insert the catheter at the correct angle and secure it once blood return confirms placement.
5. **Connect IV Tubing:** Attach the tubing and regulate fluid flow according to physician orders.
6. **Monitor Patient:** Observe for signs of complications and ensure the site remains clean and dry.

This step-by-step process highlights the importance of aseptic technique and patient safety, themes central to chapter 26 administration of medication and intravenous therapy.

## Common Medications Administered via IV

IV therapy is often used for medications that require rapid action or cannot be taken orally. These include antibiotics, chemotherapy agents, electrolytes, and pain management drugs. Chapter 26 administration of medication and intravenous therapy highlights the necessity of understanding each medication's properties, potential side effects, and compatibility with IV fluids.

## Medication Compatibility and Dilution

One of the trickiest aspects of IV medication administration is ensuring compatibility. Certain drugs can interact negatively when mixed, leading to precipitation or reduced efficacy. Healthcare providers must consult compatibility charts and follow dilution guidelines meticulously. For example, some antibiotics require dilution in specific solutions before administration, while others must be given slowly to avoid adverse reactions.

# Safety and Monitoring in Medication and IV Therapy

Safety is paramount when administering medications and IV therapy. Chapter 26 administration of medication and intravenous therapy stresses continuous patient monitoring to detect early signs of complications.

## Recognizing and Managing Complications

Complications from IV therapy can range from mild to life-threatening:

- **Phlebitis:** Inflammation of the vein, often due to irritation or infection.
- **Infiltration:** Leakage of IV fluid into surrounding tissue, causing swelling and discomfort.
- **Extravasation:** Leakage of vesicant drugs causing tissue damage.
- **Air Embolism:** Entry of air into the bloodstream, which can be fatal.
- **Allergic Reactions:** From mild rashes to anaphylaxis.

Prompt recognition and intervention are crucial. For instance, at the first sign of infiltration, the IV should be discontinued, and the site elevated. Healthcare professionals must be trained to respond swiftly to adverse events.

## Documentation and Legal Considerations

Accurate documentation of medication administration and IV therapy is not only a best practice but also a legal necessity. Charting the drug name, dose, route, time, and patient response helps maintain continuity of care and provides legal protection. Chapter 26 administration of medication and intravenous therapy emphasizes thorough record-keeping as part of professional responsibility.

## Education and Communication with Patients

Educating patients about their medications and IV therapy is often overlooked but vital. When patients understand why a medication is prescribed, how it

works, and possible side effects, they are more likely to adhere to treatment plans and report issues promptly.

## **Tips for Effective Patient Communication**

- Use simple, non-technical language to explain procedures.
- Encourage questions and provide clear answers.
- Inform patients about signs of complications to watch for.
- Discuss the importance of reporting any discomfort or changes immediately.

By fostering a collaborative environment, healthcare providers can enhance patient safety and satisfaction, a key takeaway from chapter 26 administration of medication and intravenous therapy.

## **The Role of Technology in Medication and IV Therapy**

Advancements in technology have transformed the administration of medications and IV therapy. Electronic Medication Administration Records (eMAR), barcode scanning, and infusion pumps improve accuracy and reduce errors.

## **Infusion Pumps and Smart Technology**

Smart infusion pumps regulate the flow rate and volume of IV fluids, allowing precise delivery of medications. They also include safety features such as dose error reduction systems, which alert clinicians to potential mistakes before they occur. Utilizing this technology aligns with the guidelines laid out in chapter 26 administration of medication and intravenous therapy, aiming to enhance patient safety.

Exploring the integration of digital tools helps healthcare providers stay current and efficient in their practice.

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Chapter 26 administration of medication and intravenous therapy is a comprehensive guide that underscores the complexity and responsibility involved in these everyday medical tasks. Mastery of this knowledge ensures

not only the safety and well-being of patients but also the confidence and professionalism of healthcare providers. Whether you are administering oral medications or managing complex IV therapies, this chapter provides a foundation for success and excellence in patient care.

## **Frequently Asked Questions**

### **What are the key steps in the administration of medication to ensure patient safety?**

Key steps include verifying the five rights (right patient, right medication, right dose, right route, right time), checking for allergies, confirming the medication order, proper hand hygiene, and documenting the administration accurately.

### **How should intravenous (IV) therapy sites be assessed during administration?**

IV sites should be assessed for signs of infiltration, phlebitis, infection, swelling, redness, and pain. Regular monitoring ensures early detection of complications.

### **What is the importance of the 'five rights' in medication administration?**

The 'five rights' help prevent medication errors by ensuring that the correct patient receives the correct medication, in the correct dose, via the correct route, at the correct time.

### **What are common complications associated with intravenous therapy?**

Common complications include infiltration, phlebitis, infection, air embolism, fluid overload, and allergic reactions.

### **How should medication errors be handled during administration?**

Medication errors should be reported immediately to the healthcare provider, the patient monitored for adverse effects, the incident documented accurately, and corrective actions taken to prevent recurrence.

### **What are the best practices for preparing**

## **intravenous medications?**

Best practices include verifying medication orders, using aseptic technique, checking for compatibility, labeling IV bags correctly, and double-checking dosage calculations.

## **How is the rate of intravenous infusion determined and controlled?**

The infusion rate is determined based on the prescribed dose and volume over a specific time. It is controlled using IV pumps or flow regulators to ensure accurate delivery.

## **What patient education should be provided regarding intravenous therapy?**

Patients should be informed about the purpose of IV therapy, signs of complications to watch for (such as pain or swelling), the importance of reporting discomfort, and how to avoid dislodging the IV line.

## **What role does documentation play in medication administration and IV therapy?**

Documentation ensures accurate records of medication and IV administration, monitors patient response, helps in continuity of care, and is essential for legal and quality assurance purposes.

## **How can healthcare providers minimize the risk of infection during intravenous therapy?**

Providers should use sterile techniques during insertion, maintain hand hygiene, regularly change IV dressings, use antiseptic solutions on the insertion site, and follow institutional infection control protocols.

## **Additional Resources**

Chapter 26 Administration of Medication and Intravenous Therapy: A Critical Review

**chapter 26 administration of medication and intravenous therapy** serves as a fundamental cornerstone in clinical nursing education and practice, encapsulating the principles, procedures, and safety measures essential for effective and safe patient care. This chapter meticulously addresses the complexities involved in the administration of medications and the intricacies of intravenous (IV) therapy, highlighting the critical role healthcare professionals play in mitigating risks while optimizing therapeutic outcomes. In an era where medication errors remain a significant

concern, understanding the protocols and best practices described in this chapter is vital for both novice and experienced practitioners.

## **Understanding the Scope of Medication Administration**

Medication administration stands as one of the most frequent and high-risk procedures performed in healthcare settings. Chapter 26 delves into the pharmacological knowledge, legal considerations, and ethical responsibilities that govern this practice. It emphasizes the “Five Rights” of medication administration—right patient, right drug, right dose, right route, and right time—which form the backbone of safe medication delivery.

The chapter also explores various routes of drug administration beyond the intravenous method, including oral, subcutaneous, intramuscular, and topical routes. Each route is analyzed regarding absorption rates, onset of action, and potential complications, providing a comprehensive understanding of how different methods influence drug efficacy.

## **Legal and Ethical Considerations**

An essential aspect covered in chapter 26 is the legal accountability and ethical implications involved in medication administration. Nurses and healthcare providers must adhere to established protocols to avoid malpractice and ensure patient safety. Documentation, informed consent, and patient education are underscored as critical components that protect both the patient and the practitioner.

## **Intravenous Therapy: Techniques and Challenges**

Intravenous therapy represents a pivotal component of modern medical treatment, allowing for rapid drug delivery, fluid replacement, and nutrient administration. The chapter's detailed examination of IV therapy includes vein selection, catheter insertion techniques, and maintenance of IV lines to prevent complications such as phlebitis, infiltration, and infection.

One of the key highlights is the discussion on types of intravenous fluids—crystalloids, colloids, blood products—and their appropriate clinical uses. Understanding fluid composition and osmolarity is crucial in preventing adverse reactions and ensuring the desired therapeutic effect.



## **Equipment and Technology in IV Therapy**

Chapter 26 also provides insight into the technological advancements that support intravenous therapy. From infusion pumps and electronic controllers to safety-engineered needles, the integration of technology aims to enhance precision, reduce human error, and improve patient comfort.

The text evaluates the pros and cons of continuous versus intermittent infusion methods, noting that while continuous infusion offers steady plasma drug levels, intermittent infusion can reduce risks of fluid overload and catheter-related complications.

## **Safety Protocols and Risk Management**

A substantial portion of chapter 26 is dedicated to safety protocols designed to minimize medication errors and IV therapy-related complications. Strategies such as the use of barcoding systems, double-checks by healthcare professionals, and adherence to aseptic techniques are meticulously covered.

Furthermore, the chapter highlights the importance of patient monitoring during and after medication administration and IV therapy. Vital signs, infusion site inspection, and assessment for allergic reactions are critical to early detection of adverse events.

## **Common Complications and Their Management**

The chapter does not shy away from addressing the potential complications associated with medication and IV therapy. It categorizes issues such as extravasation, air embolism, and septicemia, offering evidence-based interventions and nursing care plans to manage these risks effectively.

## **Training and Competency in Medication and IV Administration**

The complexity of medication administration and intravenous therapy necessitates rigorous training and ongoing competency assessments. Chapter 26 outlines educational frameworks, simulation-based learning, and credentialing processes that ensure healthcare providers maintain high standards of practice.

It also stresses interprofessional collaboration as an essential factor in enhancing patient safety, underscoring communication between nurses, pharmacists, and physicians in medication management.

## **Impact of Technology on Training and Practice**

With the advent of digital tools, e-learning modules, and virtual reality simulations, training in medication and IV administration has evolved significantly. These methods allow for risk-free practice environments where practitioners can hone their skills and receive immediate feedback, ultimately reducing errors in real-world settings.

## **Integrating Chapter 26 Principles into Clinical Practice**

Incorporating the comprehensive guidelines and protocols from chapter 26 into daily clinical practice demands vigilance and commitment. Healthcare institutions often develop policies that mirror these standards, promoting uniformity in medication administration and IV therapy procedures.

The chapter's emphasis on patient-centered care encourages practitioners to engage patients actively in their treatment plans, educating them about their medications, potential side effects, and the importance of reporting any discomfort during IV therapy.

By focusing on continuous quality improvement and adherence to evidence-based practices outlined in chapter 26, healthcare providers can contribute to safer medication administration and more effective intravenous therapy outcomes.

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Chapter 26 administration of medication and intravenous therapy remains an indispensable resource guiding healthcare professionals through the complexities of these critical interventions. Its detailed exploration of pharmacological principles, legal frameworks, technical skills, and patient safety measures ensures that practitioners are well-equipped to deliver care that aligns with contemporary standards and technological advancements. As the healthcare landscape evolves, the foundational knowledge embedded in this chapter will continue to influence best practices and safeguard patient wellbeing.

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**chapter 26 administration of medication and intravenous therapy: Today's Medical**

*Assistant* Kathy Bonewit-West, BS, MEd, Sue Hunt, Edith Applegate, MS, 2015-10-13 Launch your career in medical assisting with *Today's Medical Assistant, Clinical & Administrative Procedures*, 3rd Edition! Bringing together the clinical know-how of Kathy Bonewit-West, the administrative expertise of Sue Hunt, and the anatomy and physiology knowledge of Edith Applegate, this hands-on guide uses easy-to-follow language and detailed visuals to walk readers through all of the medical knowledge, procedures, and skills needed for success in today's fast-paced medical office. Not only does this new edition incorporate the latest standards and competencies throughout all of its content and resources, but it also includes an incredibly wide assortment of engaging learning tools and activities that help readers fully understand and demonstrate those competencies. If you want to be fully prepared for tomorrow's medical assisting profession, then look no further than *Today's Medical Assistant*! Consistent and meticulous coverage throughout the main text, Evolve resources, study guide, and SimChart for the Medical Office provide reliable content and unparalleled accuracy on the responsibilities of the modern medical assistant. The most up-to-date content outfits readers with the latest information and insights on key topics such as: electronic medical records (EMR), HIPAA, and advanced directives documentation, evaluation & management, office and hospital services (billing & coding) emergency preparedness ICD-10 coding medical office technology medical asepsis, OSHA Bloodborne Pathogens Standard; AIDS & Hepatitis, latex glove allergies vital signs pediatrics, immunization information, IM injection (theory), child abuse colonoscopies IV therapy CLIA waived tests Unique learning aids throughout the book include: procedure charting examples outlines, detailed learning objectives, and key terms for each chapter Highlight boxes What Would You Do? What Would You Not Do? boxes Patient Teaching boxes On the Web boxes Putting It All into Practice boxes Memories from Practicum boxes glossary of key terms Arsenal of engaging activities on the Evolve companion site gives users a fun way to practice their medical

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**chapter 26 administration of medication and intravenous therapy: Today's Medical Assistant - E-Book** Kathy Bonewit-West, Sue Hunt, Edith Applegate, 2012-10-15 Content updates reflect the latest competencies for medical assistants and ensure you have the most current information on the newest trends and updates in the medical assisting world. 8th grade reading level makes material approachable and easy to understand. New chapter on Emergency Preparedness offers a well-rounded perspective on what to do in specific emergency situations. New OSHA Bloodborne Pathogens video improves your understanding of personal safety following the OSHA standards. Pronunciation section in the Terminology Review gives you confidence with pronunciation and medical knowledge. Application to EMR where appropriate prepares you for the real world by dealing with electronic medical records.

**chapter 26 administration of medication and intravenous therapy: Today's Medical Assistant** Kathy Bonewit-West, Sue A. Hunt, Edith Applegate, 2012-10-04 Bringing together the clinical know-how of Kathy Bonewit-West, the administrative expertise of Sue Hunt, and the anatomy and physiology knowledge of Edith Applegate, this unique, hands-on text guides you through the medical knowledge and skills you need to succeed in today's fast-paced medical office. The latest standards and competencies for the medical assistant have been incorporated into this new edition, along with expanded coverage on important topics such as nutrition, the electronic medical record, ICD-10, emergency preparedness and disaster planning, time management, and computerized prescription refills. Consistent, meticulous coverage throughout the main text, IRM, SG, DVDs, Evolve, and more provide reliable content and unparalleled accuracy. Over 90 procedural videos on DVD and online provide a visual representation of important procedures. Expanded Student Evolve site contains all animations, games (such as Quiz Show and Road to Recovery), drag-and-drop exercises, Apply your Knowledge exercises, Prepare for Certification exercises, matching exercises, and other helpful activities such as blood pressure readings, determining height and weight, and drawing up medication. What Would You Do? What Would You Not Do? boxes and responses offer applications of real-life case studies. Clear and concise Anatomy and Physiology coverage covers the basics of A&P and eliminates the need for a separate A&P text. Content updates reflect the latest competencies for medical assistants and ensure you have the most current information on the newest trends and updates in the medical assisting world. 8th grade reading level makes material approachable and easy to understand. New chapter on Emergency Preparedness offers a well-rounded perspective on what to do in specific emergency situations. New OSHA Bloodborne Pathogens video improves your understanding of personal safety following the OSHA standards. Pronunciation section in the Terminology Review gives you confidence with pronunciation and medical knowledge. Application to EMR where appropriate prepares you for the real world by dealing with electronic medical records.

**chapter 26 administration of medication and intravenous therapy: *Clinical Nursing Skills***

Sandra Fucci Smith, Donna Duell, 1992

**chapter 26 administration of medication and intravenous therapy: *Pharmacology***

**Essentials** Jody A. Lambright Eckler, Judy M. Stimmel Fair, 1996 *Pharmacology Essentials...* delivers step-by-step instructions to help you prepare and administer pharmaceuticals safely and effectively; builds your knowledge of pharmacology quickly by presenting essential information on a drug classification before exploring the specific drugs within that class; features learning objectives and drug lists at the beginning of each chapter to alert you to important facts and concepts; stimulates understanding with mental aerobics, case studies, and learning activities at the ends of chapters - including application questions, assignments, directed research, role plays, and games; reviews key concepts in anatomy and physiology and explains how they relate to drugs and their actions on organs and body systems; and includes a chapter on IV therapy techniques and administration.

**chapter 26 administration of medication and intravenous therapy: *Kozier & Erb's***

**Techniques in Clinical Nursing** Barbara Kozier, Glenora Lea Erb, 2004 Providing current information in a clear, concise format, the Fifth Edition of Kozier & Erb's *Techniques in Clinical Nursing* continues to be a definitive source for clinical nursing skills. Progressing from the simple to the complex, each chapter places techniques in perspective to client anatomy, physiology, and pathophysiology. Applying the nursing process to each technique, it illustrates a detailed step-by-step implementation while providing a thorough overview of the rationale and purpose. Appropriate as a stand alone in a skills-based course or as a companion to any Fundamentals or Medical-Surgical course with skills application, the features include: Current Standard Infection Control Precautions integrated into each technique. Over 200 Forming Clinical Judgment questions that apply critical thinking skills to realistic clinical situations. Age Related Considerations highlighting modifications and special deliberations necessary when caring for infants, children, and elders. Ambulatory and Community Settings section lists the modifications necessary when performing techniques in alternative settings. A focus on the appropriateness of delegation explaining which techniques at what times can be delegated to unlicensed assistive personnel. Color photographs of real life situations. For faculty - Instructor's Resource CD ROM with customizable checklist available upon adoption.

**chapter 26 administration of medication and intravenous therapy: *Instructor's Manual to***

*Accompany "Textbook for Medical Assistants"* Julie B. Hosley, Elizabeth A. Molle-Matthews, Shirley A. Jones, 1997

**chapter 26 administration of medication and intravenous therapy: *Intravenous Therapy***

Intravenous Nurses Society, 1995 This text addresses special areas of IV therapy, including oncology and pain management, blood and blood components and parenteral nutrition. The book also offers calculations required for parenteral therapies and applies IV therapy to a variety of settings, including home health care and long-term care. In addition, it provides therapy principles for care of paediatric and geriatric patients.

**chapter 26 administration of medication and intravenous therapy: *Comprehensive***

**Review for NCLEX-PN** Mary Ann Hogan (Nurse), Debra S. McKinney, 2008 From the author of Prentice Hall's *Nursing Reviews and Rationales* Series comes a comprehensive review for the NCLEX-PN(R). Completely current reflecting the April 2007 NCLEX-PN(R) test plan, this review book features a comprehensive outline review, 1570 questions and a 265-question practice test. A FREE CD-ROM provides an additional 3880 questions for review. Throughout answers are complete with rationales and testing strategies to help students determine how to answer questions, even if they aren't sure of the correct answer. In this competitive market, this new NCLEX-PN(R) review book will stand out because of these features: -The quantity and quality of our review questions, over 5450 total -Organization according to the April 2007 NCLEX-PN(R) Test Plan -The multi-media support that accompanies this review book. -Inclusion of alternate test items such as prioritization, dosage calculation, enhanced image questions and more in the book and on the CD-ROM -FREE Prentice Hall NursingNotes Cards Additional features include: -Over 1540 NCLEX-PN(R)-style

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Patricia Ann Potter, Anne Griffin Perry, 2003 Building on the strengths of the fourth edition, Basic Nursing: Essentials for Practice is back in a new edition! Thoroughly updated and revised to provide a more focused and engaging presentation, this new edition offers the basic principles, concepts, and skills needed by nursing students. The five-step nursing process returns to provide a consistent, logical organizational framework, with a clear writing style and numerous learning aids. An increased emphasis on caring, along with new boxes on Focused Client Assessment and Outcome Evaluation, reflect current practice trends. This new edition is better than ever! Five-Step Nursing Process provides a consistent organizational framework. More than 40 nursing skills are presented in a clear, 2-column format with rationales for all steps. Procedural Guidelines boxes provide streamlined step-by-step instructions for performing basic skills. Growth and Development chapter and age-related considerations throughout clinical chapters help prepare students to care for clients of all ages. Sample Nursing Care Plans highlight defining characteristics in assessment data, include client goals and expected outcomes in the planning section, and provide rationales for each nursing intervention. Progressive Case Studies follow the interactions of a client and nurse throughout the chapter to illustrate steps in the nursing process and develop critical thinking skills. Brief coverage of higher level concepts including research, theory, professional roles, and management, maintains the text's focus on essential, basic content. The narrative style makes the text more engaging and appealing. Focused Client Assessment boxes provide specific guidelines for factors to assess, questions and approaches, and physical assessment. Content on delegation is discussed throughout the narrative and specific guidelines are included for each skill. Skills now include Unexpected Outcomes and Interventions to alert for potential undesirable responses and provide appropriate nursing actions. Caring in Nursing is presented in a new chapter and as a thread throughout the text. Outcome Evaluation are based on the chapter's case study and provide guidelines on how to ask questions and evaluate care based on the answers received. NIC and NOC are discussed in the Nursing Process chapter to provide an overview of these taxonomies encountered in practice. NCLEX-style multiple-choice questions at the end of each chapter help students evaluate learning.

**chapter 26 administration of medication and intravenous therapy: Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26** , 1924

**chapter 26 administration of medication and intravenous therapy: Techniques in Clinical Nursing** Barbara Kozier, Glenora Lea Erb, 1987

**chapter 26 administration of medication and intravenous therapy: Wong's Nursing Care of Infants and Children** Donna L. Wong, Marilyn J. Hockenberry, David Wilson, 2003 Painstakingly accurate, up-to-date, and a highly readable.... There's no question why this respected resource is pediatric nursing's foremost text. This new seventh edition maintains the high standards established by previous editions, and broadens the focus in the areas of community care and evidence-based practice. Readers will find it highly appealing with superior illustrations and a beautiful full-color design throughout.

**chapter 26 administration of medication and intravenous therapy: Pharmacological Basis of Nursing Practice** Julia B. Freeman, Sherry F. Queener, Virginia Burke Karb, 1990

**chapter 26 administration of medication and intravenous therapy: Understanding**

**Clinical Nutrition** Corinne Balog Cataldo, Sharon Rady Rolfes, 1998 This comprehensive introductory text emphasises underlying chemical processes. It addresses topics such as the nutrition care process, diet therapy organised by organ systems/disease states, and life cycle nutrition.

**chapter 26 administration of medication and intravenous therapy: Understanding Normal and Clinical Nutrition** Eleanor Noss Whitney, Corinne Balog Cataldo, Sharon Rady Rolfes, 1998 This comprehensive introductory text emphasises underlying chemical processes. It addresses topics such as the nutrition care process and diet therapy organised by organ systems/disease states. Canadian nutrition needs are covered in an appendix.

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