Essentials of Pediatric Nursing



Essentials *of*Pediatric Nursing

Terri Kyle, MSN, CPNP Assistant Professor, Nursing Pediatrics University of Central Florida Orlando, Florida Acquisitions Editor: Elizabeth Nieginski/Jean Rodenberger Development Editor: Danielle DiPalma/Erin Sweeney

Senior Production Editor: Tom Gibbons
Director of Nursing Production: Helen Ewan
Senior Managing Editor / Production: Erika Kors
Design Coordinator: Holly Reid McLaughlin

Cover Designer: Bess Kiethas

Art Director, Illustration: Brett MacNaughton Senior Manufacturing Manager: William Alberti

Indexer: Kathy Pitcoff
Compositor: Circle Graphics

ISBN-13: 978-0-7817-5115-2 ISBN-10: 0-7817-5115-2

Copyright © 2008 by Lippincott Williams & Wilkins, a Wolters Kluwer business. All rights reserved. This book is protected by copyright. No part of this book may be reproduced or transmitted in any form or by any means, including as photocopies or scanned-in or other electronic copies, or utilized by any information storage and retrieval system without written permission from the copyright owner, except for brief quotations embodied in critical articles and reviews. Materials appearing in this book prepared by individuals as part of their official duties as U.S. government employees are not covered by the above-mentioned copyright. To request permission, please contact Lippincott Williams & Wilkins at 530 Walnut Street, Philadelphia PA 19106, via email at permissions@lww.com or via website at lww.com (products and services).

9 8 7 6 5 4 3 2 1

Printed in China Library of Congress Cataloging-in-Publication Data

Kyle, Terri.

Essentials of pediatric nursing / Terri Kyle.

p.; cm.

Includes bibliographical references and index.

ISBN-13: 978-0-7817-5115-5 (hardcover : alk. paper)

ISBN-10: 0-7817-5115-2 (hardcover : alk. paper) 1. Pediatric nursing. I. Title.

[DNLM: 1. Nursing Care—methods. 2. Child. 3. Infant. 4. Nursing Assessment—

methods. 5. Pediatric Nursing. WY 159 K99e 2008]

RJ245.K95 2008 618.92'00231—dc22

2007025968

Care has been taken to confirm the accuracy of the information presented and to describe generally accepted practices. However, the authors, editors, and publisher are not responsible for errors or omissions or for any consequences from application of the information in this book and make no warranty, expressed or implied, with respect to the currency, completeness, or accuracy of the contents of the publication. Application of this information in a particular situation remains the professional responsibility of the practitioner; the clinical treatments described and recommended may not be considered absolute and universal recommendations.

The authors, editors, and publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accordance with the current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new or infrequently employed drug.

Some drugs and medical devices presented in this publication have Food and Drug Administration (FDA) clearance for limited use in restricted research settings. It is the responsibility of the health care provider to ascertain the FDA status of each drug or device planned for use in his or her clinical practice.

This book is dedicated to my incredible family, without whom I could never have accomplished this monumental task.

My husband John has unfailingly stood by my side, providing continuous positive affirmation and infinite support for this project. My son Christian and my daughter Caitlin have blessed me with their patience and faith in me, as well as the opportunity for me to experience all the stages of growth and development first-hand. The book is also dedicated to the wonderful babies born during this project:

Natalie, Ben, Grace, and Ella.

ACKNOWLEDGMENTS

he thrilling and challenging experience of authoring this textbook would not have been possible without the tremendous support of the Lippincott Williams & Wilkins family. In particular I want to thank Michelle McIlvain (Regional Sales Manager) for initially querying me about this idea that had long been a secret goal of mine; Elizabeth Nieginski (Senior Acquisitions Editor) for believing so strongly in my ideas and never letting me give up; and Danielle DiPalma (Senior Development Editor) for her vision and organization, but especially for her patience with me. I would like to express immense gratitude to Sarah Kyle (Development Editor) for so clearly being able to see what I wanted and her tireless attention to detail even up through the ninth month of pregnancy and while moving her family across continents. Thank you to Maryann Foley (Development Editor) for stepping in and filling the gaps, Erin Sweeney for assisting

with transmission of the manuscript, Brett MacNaughton (Art Director) and the entire art team for the beautiful illustrations, as well as Tom Gibbons (Senior Production Editor) and the production team for their diligent efforts. My good friend and colleague, Susan Carman, deserves special thanks for her significant contribution not only to writing chapters and case studies as well as being involved in the development of the online study guide, but also for always listening to, supporting, and encouraging me. Special thanks to Amy Gellerman (Producer), Gus Freedman (Photographer), Newton-Wellesley Hospital pediatric department, and Boston Shriner's Hospital for the beautiful photography they contributed. I would also like to thank all of the pediatric nurses who contributed their wealth of knowledge and expertise to developing chapters for this book. This would not have been possible without all of you.



Terri Kyle earned a Bachelor of Science in Nursing from the University of North Carolina at Chapel Hill and a Master of Science in Nursing from Emory University in Atlanta, Georgia. She is a certified pediatric nurse practitioner and is currently enrolled in the Doctor of Nursing Practice program at the University of Florida. Practicing pediatric nursing for over 20 years, Terri has had the opportunity to serve children and their families in a variety of diverse settings.

She has experience in inpatient pediatrics in pediatric and neonatal intensive care units, newborn nursery, specialized pediatric units, and community hospitals. She has worked as a pediatric nurse practitioner in pediatric specialty clinics and primary care. She has been involved in teaching nursing for over 15 years with experience in both undergraduate and graduate nursing education. Terri is a fellow in the National Association of Pediatric Nurse Practitioners and a member of Sigma Theta Tau International Honor Society of Nursing, the National League for Nursing, the Society of Pediatric Nurses, and the Association of Camp Nurses.

With the limited time allotted in schools to the topic of pediatric nursing, Terri recognized the need for a textbook that "got to the point." She strongly believes in a concepts-based approach for learning nursing—that is, to teach the basics to students in a broad contextual format so that they can apply that knowledge in a variety of situations. The concepts-based approach to nursing education is time-efficient for nursing educators and fosters the development of critical thinking skills in student nurses.





Kathie Aduddell, EdD, MSN, RN

Associate Professor

Kennesaw State University, School of Nursing

Kennesaw, Georgia

CHAPTER 1 • Perspectives of Pediatric Nursing

CHAPTER 2 • Factors Influencing Child Health

CHAPTER 11 • Nursing Care of Children During Illness and

Hospitalization (co-authored with Kathy Ordelt)

CHAPTER 14 • Medication Administration, Intravenous

Therapy, and Nutritional Support

CHAPTER 15 • Pain Management

CHAPTER 20 • Nursing Care of the Child with a

Cardiovascular Disorder (co-authored with Carol Holtz)

CHAPTER 28 • Nursing Care of the Child with an

Endocrine Disorder

Barbara Browning, RN, MS, CPNP

Clinical Assistant Professor

Georgia State University

Atlanta, Georgia

CHAPTER 8 • Growth and Development of the Adolescent

Susan Carman, BSN, MSN, MBA

Hubertus, Wisconsin

CHAPTER 12 • Nursing Care of the Child in the

Community

CHAPTER 16 • Nursing Care of the Child with an Infectious

Disorder

CHAPTER 30 ● Nursing Care of the Child with a Genetic

Disorder

Myra Carmon, EdD, CPNP, RN

Director for the Health and Wellness Nursing

Collaborative

Georgia State University

Atlanta, Georgia

CHAPTER 7 • Growth and Development of the School-Age

Child

Kim Hamilton

Atlanta, Georgia

CHAPTER 21 • Nursing Care of the Child with a

Gastrointestinal Disorder

Carol Holtz, RN, PhD

Professor of Nursing

Kennesaw State University, School of Nursing

Kennesaw, Georgia

CHAPTER 20 • Nursing Care of the Child with a

Cardiovascular Disorder (co-authored with Kathie Aduddell)

Maeve Howett, RN, PhD(c), CPNP, IBCLC

Assistant Professor

Emory University

Atlanta, Georgia

CHAPTER 10 • Health Assessment of Children

Randall Johnson, RN, M.S.N, ARNP

Associate Professor

Florida Hospital College of Health Sciences

Orlando, Florida

CHAPTER 24 • Nursing Care of the Child with a

Musculoskeletal Disorder

Kathy Ordelt, RN, CPN, CRRN

Patient and Family Education Coordinator

Children's Healthcare of Atlanta

Atlanta, Georgia

CHAPTER 11 • Nursing Care of Children During Illness and

Hospitalization (co-authored with Kathie Aduddell)

Marie Oren-Sosebee, RN. BSN. CWOCN

Wound, Ostomy and Continence Nurse

Children's Healthcare of Atlanta

Atlanta, Georgia

CHAPTER 14 • Medication Administration, Intravenous

Therapy, and Nutritional Support

Maggie Payne-Orton, RN, PNP

Clinical Instructor

Emory University

Atlanta, Georgia

CHAPTER 32 • Nursing Care During a Pediatric Emergency

Gayle Wetzel, BSN, MSN, ARNP, CPNP

Professor, Advanced Placement Nursing Program

Coordinator

Edison College

Fort Meyers, Florida

CHAPTER 9 • Health Supervision



Marguerite Aube, BS, MS, CAS

Assistant Professor University of New England Portland, Maine

Michele Avila-Emerson, RN, BA, MSN

Fresno City College Lucille Packard Children's Hospital at Stanford University Fresno, California

Marty Bachman, RN, PhD

Associate Professor of Nursing Front Range Community College at Larimer Fort Collins, Colorado

Vicky Becherer, MSN, RN

Pediatric Clinical Instructor University of Missouri at St. Louis St. Louis, Missouri

Jody Bivona, RN, MSN

Nursing Instructor State University of New York at Ulster Stone Ridge, New York

Sally Boyster, RN, MS

Professor, Nursing Science Program Rose State College Midwest City, Oklahoma

Susan Brillhart, RN, MSN, CPNP

Assistant Professor Borough of Manhattan Community College New York, New York

MarJo Bunten, RN, MSN

Assistant Professor Bradley University Morton, Illinois

Grace Buttriss, RN, FNP

Nursing Instructor Queens University of Charlotte Concord, North Carolina

Karen Carpenter, APRN, BC, FNP, JD

Professor Quinsigamond Community College Worcester, Massachusetts

Donna Curry, RN, PhD

Associate Professor Wright State University Dayton, Ohio

Dianne DeLong, MSN, RN

Professor, Dean of Professional Accreditation and Curriculum Leigh Carbon Community College Schnecksville, Pennsylvania

Bernadette Dragich, PhD, APRN, BC

Professor Bluefield State College Bluefield, West Virginia

Pat Durham-Taylor, RN, PhD

Professor of Nursing Truckee Meadows Community College Reno, Nevada

Alison Fisher, RN, MSN, CPN

Instructor
Del Mar College
Corpus Christi, Texas

Lois Griffin, MSN, CFNP

Nursing Instructor Shelton State Community College Tuscaloosa, Alabama

Anna Gryczman, MSN, RN, PHN, HNC

Professor Century College White Bear Lake, Minnesota

Melanie Hamilton, MN, BN, RN

Nursing Instructor Grand Prairie Regional College Alberta, Canada

Carol Hargate, BS, MPH, CPNP

Assistant Professor Minnesota State University at Mankato Mankato, Minnesota

Pat Hendrix, MSN, RN

Director of Nursing Motlow State Community College Tullahoma, Tennessee

Jackie Hils-Williams, MSN, RN

Instructor Golden West College Huntington Beach, California

Judith Hold, MSN, RN

Nursing Instructor Chattanooga Technical Institute Marietta, Georgia

Carol Holtz, RN, PhD

Professor Kennesaw State University Kennesaw, Georgia

Carolyn Hulsen, MSN, RN

Professor Black Hawk College Eldridge, Iowa

Carrie Huntsman-Jones, MSN, RN, CPN

Assistant Professor Davis Applied Technical College Kaysville, Utah

Jean Ivey, DSN, RN, CRNP

Associate Professor University of Alabama at Birmingham Birmingham, Alabama

Lynn Jordan, MSN, RN

Professor Carolinas College of Health Sciences Charlotte, North Carolina

Katherine Kniest, RN, MSN

Professor William Rainey Harper College Palatine, Illinois

Sherry Knoppers, RN, PhDc

Pediatric Nursing Instructor Grand Rapids Community College Grand Rapids, Michigan

Penny Leupold, RN, MS

Professor Joliet Junior College Joliet, Illinois

Debbie Lewis, RN, MSN, CPN

Instructor **Duquesne University** Pittsburgh, Pennsylvania

Kelli Lewis, BSN, MSN

Practical Nursing Instructor Rend Lake College Ina, Illinois

Shirley Mahan, MSN, RN

Assistant Professor Lincoln Memorial University Corbin, Kentucky

Larry Manalo, MSN, RN

Director of LVN Program Allan Hancock College Santa Maria, California

Barbara Maybury, RN, MsED, MSN

Associate Professor Northwest Arkansas Community College Bentonville, Arkansas

Teresa McNabb, RN

Nursing Instructor South Plains College Lubbock, Texas

Claire Meggs, MSN, RN

Associate Professor Lincoln Memorial University Knoxville, Tennessee

Sandy Olenniczak, RN

Practical Nursing Instructor Northeast Wisconsin Technical College Green Bay, Wisconsin

Susan Paterson, RN, MSN

Nursing Instructor Davenport University Central Region Midland, Michigan

Lori Peden, MSN, RN, CFNP

Professor Hocking College Nelsonville, Ohio

Mary Anne Peters, DNSc, RN

Director of Graduate Nursing Program LaSalle University Philadelphia, Pennsylvania

Linda Pina, MSN, RN

Associate Professor California University of Pennsylvania California, Pennsylvania

Gena Porter-Lankist, ARNP-C, MSN

Professor Chipola Junior College Cottondale, Florida

Susan Reardon, MSN, RN

Nursing Instructor Allan Hancock College Lompoc, California

Michelle Renaud, PhD, RN

Associate Professor Pacific Lutheran University Tacoma, Washington

Linda Rimer, MSE, RN

Professor University of Arkansas at Little Rock Little Rock, Arkansas

Julie Ritland, MSN, ARNP

Assistant Professor Allen College Waterloo, Iowa

Melodie Rowbotham, MSN, RN

Clinical Assistant Professor University of Missouri at St. Louis O'Fallon, Missouri

Judy Scott, RN

Instructor Community College of Southern Nevada North Las Vegas, Nevada

Molly Showalter, BS, RN

Nursing Instructor North Central Texas College Gainesville, Texas

Brian Skirvin-Leclair, RN, AS, BSN, MSN.

Lecturer in Nursing Lawrence Memorial, Regis College Medford, Massachusetts

Bonnie Webster, MS, RN, BC

Nursing Instructor University of Texas Medical Branch School of Nursing Galveston, Texas

Patti Witt, MA, CNP

Associate Professor College of Saint Catherine Minneapolis, Minnesota

Michele Woodbeck, MS, RN

Assistant Professor Hudson Valley Community College Troy, New York

Lisa Woodley, MSN, RN

Clinical Assistant Professor University of North Carolina School of Nursing Chapel Hill, North Carolina



ursing education is founded upon the principle of mastering simpler concepts first and incorporating those concepts into the student's knowledge base. The student is then able to progress to problem solving in more complex situations. In pediatric nursing, the ability to apply previously learned concepts to new situations is critical. In today's educational climate, with reduced class time being devoted to specialty courses, it is particularly important for nursing educators to focus on key concepts, rather than attempting to cover everything within a specific topic.

The intent of *Essentials of Pediatric Nursing* is to provide the nurse with the basis needed for sound nursing care of children. The main objective is to aid the students in building a strong knowledge base as well as to assist with the development of critical thinking skills. The book covers a broad scope of topics, placing emphasis on common issues and pediatric-specific content. The text presents the important differences when caring for children as compared to caring for adults. Rather than repeating medical-surgical content that the student has already mastered, the text builds upon that knowledge base. A nursing process approach provides relevant information in a concise and non-redundant manner. In Unit IV, specific nursing process content is discussed as appropriate for a given disorder.

Organization

Each chapter of *Essentials of Pediatric Nursing* focuses on a different aspect of pediatric nursing care. The book is divided into four units, beginning with general concepts related to pediatric nursing and followed by normal growth and development and specifics related to caring for children. The fourth unit focuses on nursing management of alterations in children's health.

Unit 1: Introduction to Pediatric Nursing

Unit 1 presents the foundational material the nursing student needs in order to understand how nursing care of the child differs from that of the adult. The unit provides information about general concepts relating to child health. Perspectives on pediatric nursing, the nursing process, factors influencing child health, the family-centered approach, atraumatic care, and communication are key concepts covered in this unit.

Unit 2: Health Promotion for the Growing Child and Family

Unit 2 provides information related to growth and development expectations of the well child from the newborn through adolescence. Though not exhaustive in nature,

this unit provides a broad knowledge base related to normal growth and development that the nurse can draw upon in any situation. Common concerns related to growth and development and client/family education are included in each age-specific chapter.

Unit 3: Foundations of Pediatric Nursing

Unit 3 covers broad concepts that provide the foundation for providing nursing care to children. Rather than reiterating all aspects of nursing care, the unit focuses on specific details needed to provide nursing care for children in general. The content remains focused upon differences in caring for children as compared with adults. Topics covered in this unit include anticipatory guidance and routine well-child care (including immunization and safety), health assessment, nursing care of the child in the hospital as well as in the community, concerns common to special-needs children, pediatric variations in nursing procedures, and pain management in children.

Unit 4: Nursing Care of the Child With a Health Disorder

Unit 4 focuses on children's responses to health disorders. This unit provides a comprehensive coverage of illnesses affecting children. It is arranged according to broad topics of disorders organized with a body systems approach and also includes infectious, genetic, and mental health disorders as well as pediatric emergencies. Each chapter follows a similar format in order to facilitate presentation of the information as well as reduce repetition. The chapter begins with a nursing process overview for the particular broad topic, presenting differences in children and how the nursing process applies. The approach provides a general framework for addressing disorders within the chapter. Individual disorders are then addressed with attention to specifics related to pathophysiology, nursing assessment, nursing management, and special considerations. Common pediatric disorders are covered in greater depth than less common disorders. The format of the chapters allows for a strong knowledge base to be built and encourages critical thinking. Additionally, the format is nursing process driven and consistent from chapter to chapter, providing a practical and sensible presentation of the information.

Recurring Features

In order to provide the student and educator with an exciting and user-friendly text, a number of recurring features have been developed.

Key Terms

Each chapter includes a list of key terms that are considered to be vital to understanding the content in the chapter. Each key term appears in boldface, with the definition included in the text. The key terms may also be accessed on thePoint.

Learning Objectives

The provision of learning objectives for each chapter helps to guide the student toward prioritizing information for learning. The objectives also provide a method for the student to evaluate understanding of the presented material.

WOW

Each chapter opens with inspiring Words of Wisdom, which offer helpful, timely, or interesting thoughts. These WOW statements set the stage for the chapter and give the student valuable insight into the nursing care of children and their families.

Case Studies

Real-life scenarios present relevant child and family information that is intended to perfect the student's caregiving skills. Questions about the scenario provide an opportunity for the student to critically evaluate the appropriate course of action.

Watch and Learn Icon

A special icon **WATCH LEARN** throughout the book directs students to free video clips that highlight growth and development, communicating with children, and providing nursing care to the child in the hospital.

Healthy People 2010

Throughout the textbook, Healthy People 2010 objectives related to children's health and well-being are outlined in box format. Nursing implications or guidance related to working toward achievement of these objectives in provided.

Teaching Guidelines

Teaching Guidelines, presented in most of the chapters, serve as valuable health education tools. The guidelines raise the student's awareness, provide timely and accurate information, and are designed to ensure the student's preparation for educating children and their families about various issues.

Drug Guides

The drug guide tables summarize information about commonly used medications. The actions, indications, and significant nursing implications presented assist the student in providing optimum care to children and their families.

Common Laboratory and Diagnostic Tests

The Common Laboratory and Diagnostic Tests tables in each chapter of Unit 4 provide the student with a general understanding of how a broad range of disorders is diagnosed. Rather than reading the information repeatedly throughout the narrative, the student is then able to refer to the table as needed.

Common Medical Treatments

The Common Medical Treatments tables in each chapter of Unit 4 provide the student with a broad awareness of how a common group of disorders is treated either medically or surgically. The table serves as a reference point for common medical treatments.

Nursing Care Plans

Nursing Care Plans provide concrete examples of each step of the nursing process. Found within the Nursing Process Overview section of each disorder chapter, these nursing care plans summarize issue- or system-related content, thereby minimizing repetition.

Comparison Charts

These charts compare two or more disorders or other easily confused concepts. They serve to provide an explanation that clarifies the concepts for the student.

Nursing Procedures

Step-by-step nursing procedures provide a clear explanation of pediatric variations in order to facilitate competent performance.

Tables, Boxes, Illustrations, and Photographs

Tables and boxes are included throughout the chapters in order to summarize key content areas. Beautiful illustrations and photographs help the student to visualize the content. These features allow the student to quickly and easily access information.

References and Helpful Informational Resources

References and helpful information resources that were used in the development of the text are provided at the end of each chapter. The listings allow the student to further pursue topics of interest. Multiple online sources are also provided as a means for the student to electronically explore relevant content material.

Chapter Worksheets

Chapter worksheets at the end of each chapter assist the student to review essential concepts. Chapter worksheets include:

- Multiple choice questions—these questions test the student's ability to apply chapter material. The questions are styled similarly to the national licensing exam (NCLEX-RN).
- Critical thinking exercises—these exercises serve to stimulate the student to incorporate the current material with previously learned concepts and reach a satisfactory conclusion. The exercises encourage students to think critically, problem solve, and consider their own perspective on given topics.
- **Study activities**—these activities promote student participation in the learning process. This section encourages increased interaction/learning via clinical, online, and community activities.
- Answers—answers to the worksheet are provided on the Point.

Teaching-Learning Package

Instructor's Resource CD-ROM

This valuable resource for instructors is compatible with WebCT and Blackboard. It includes materials instructors need to teach the pediatric nursing course, including

- PowerPoint presentations that correspond to each chapter and serve as a supplement to the instructor's course development
- A **Test Generator** that features hundreds of questions to help instructors create quizzes and tests
- An Image Bank that provides access to photographs and illustrations from the text in a convenient, searchable format

Student Resource CD-ROM

The student resource CD-ROM, which is included for free in the front of the book, features video clips highlighting childhood growth and development, communication, and the nursing care provided to a child in the hospital. Pediatric dosage calculation problems, a Spanish-English audio glossary, and an NCLEX Alternate Item Format Tutorial are also included.

The Point Solution

ThePointSolution the Points (http://thepoint.lww.com), a trademark of Wolters Kluwer Health, is a web-based course and content management system providing every resource that instructors and students need in one easy-to-use site. Advanced technology and superior content combine at the Point to allow instructors to design and

deliver online and off-line courses, maintain grades and class rosters, and communicate with students. Students can visit thePoint to access supplemental multimedia resources, such as Key Concepts, Answers to Worksheets, a Glossary, and NCLEX-style student review questions, to enhance their learning experience. ThePoint Solution package also includes an EBook, so students can search their text electronically, and journal articles to help students understand evidence-based practice. Students can also check the course syllabus, download content, upload assignments, and join an online study group.

For instructors, a wealth of information can be found at the Point, all designed to make teaching easier. For example:

- **Pre-Lecture Quizzes**, made up of five True/False and five Multiple-Choice questions, are meant to be given at the beginning of class and help evaluate whether students are keeping up with the reading and the material it covers.
- Assignments, broken into four types—written, group, clinical, and Web—and organized by learning objective, provide opportunities for in- or after-class activities.
- Discussion Topics, also organized by learning objective, allow students to critically think through scenarios and discuss their ideas with other students.
- **Guided Lecture Notes** organize the chapter objective by objective and provide references to appropriate PowerPoint slides and figures from the text.
- Sample Syllabi assist instructors with setting up their courses and are provided for four different course lengths: 4, 6, 8, and 10 weeks.

ThePoint . . . where teaching, learning, and technology click!

Online Study Guide to Accompany Essentials of Pediatric Nursing

This exciting new resource, built for your WebCT or Blackboard Learning Management System, combines all the helpful activities found in print study guides with additional resources only an online guide can provide. The Online Study Guide is divided into three sections: Assessing Your Understanding, which contains knowledge-based questions, such as Matching, Sequencing, and Fill in the Blank; Applying Your Knowledge, which features application-level questions, including case studies as well as questions based on video vignettes, provided for students within the study guide; and Practicing for NCLEX, which provides NCLEX-style review questions to help students apply and retain the key information from each chapter. The Online Study Guide is a great new way to help assess your students' mastery of information and track their proficiency within the world of pediatric nursing.

Contact your sales representative or visit www.LWW. com/Nursing for more details.



Unit 1	The Nurse's Role in Newborn and Infant Growth and Development, 88
Introduction to Pediatric Nursing3	Nursing Process Overview, 88 Promoting Healthy Growth
Chapter 1	and Development, 88
Perspectives of Pediatric Nursing5 Introduction to Pediatric Nursing, 6	Addressing Common Developmental Concerns, 102
Children's Health Status, 9	Chapter 5
Contemporary Issues and Trends in Child Health Care, 14 Use of the Nursing Process in Caring for Children and Their Families, 17	Growth and Development of the Toddler 106 Growth and Development Overview, 107 Physical Growth, 107 Organ System Maturation, 107 Psychosocial Development, 108
Chapter 2	Motor Skill Development, 109
Factors Influencing Child Health	Sensory Development, 110 Communication and Language Development, 111 Emotional and Social Development, 112 Moral and Spittual Development, 114
Culture, 34 Spiritual and Religious Influences, 38	Moral and Spiritual Development, 114 Cultural Influences on Growth
Community, 38	and Development, 114
Health Status and Lifestyle, 42	The Nurse's Role in Toddler Growth
Nursing Management, 44	and Development, 114
	Nursing Process Overview, 114 Promoting Healthy Growth
Chapter 3	and Development, 115
Working With Children and Families	Addressing Common Developmental Concerns, 130
Legal Issues Related to Caring for Children, 48	Chapter 6
Communication, 52 Atraumatic Care, 56	Growth and Development
Teaching Children and Families, 56	of the Preschooler 136
rodoring ormator and rainings, so	Growth and Development Overview, 137 Physical Growth, 137
Unit 2	Organ System Maturation, 137
Health Promotion for	Psychosocial Development, 138
	Cognitive Development, 138
the Growing Child and Family69	Moral and Spiritual Development, 138 Motor Skill Development, 140
Chapter 4	Sensory Development, 140
Growth and Development of	Communication and Language
the Newborn and Infant71	Development, 140
Growth and Development Overview, 72	Emotional and Social Development, 142 Cultural Influences on Growth
Physical Growth, 72	and Development, 144
Organ System Maturation, 73	The Nurse's Role in Preschool Growth
Psychosocial Development, 81	and Development, 144
Cognitive Development, 81	Nursing Process Overview, 144
Motor Skill Development, 82	Promoting Healthy Growth
Sensory Development, 82	and Development, 144
Communication and Language Development, 84	Addressing Common Developmental Concerns, 156
Social and Emotional Development, 87	Lying, 156
Cultural Influences on Growth	Sex Education, 157
and Development, 87	Masturbation, 157

Chapter 7	Chapter 10
Growth and Development of the School-Age Child	Health Assessment of Children
Sensory Development, 165 Communication and Language Development, 165 Emotional and Social Development, 165 Cultural Influences on Growth and Development, 167 The Nurse's Role in School-Age Growth	Nursing Care of Children During Illness and Hospitalization
and Development, 167 Nursing Process Overview, 167 Promoting Healthy Growth and Development, 168 Addressing Common Developmental Concerns, 176	Nursing Care of the Child in the Community
Chapter 8	Chapter 13
Growth and Development of the Adolescent	Nursing Care of the Child With Special Needs
Physical Growth, 184 Organ System Maturation, 187 Psychosocial Development, 188 Cognitive Development, 188 Moral and Spiritual Development, 188 Motor Skill Development, 190 Communication and Language Development, 190 Emotional and Social Development, 190	Chapter 14 Medication Administration, Intravenous Therapy, and Nutritional Support
Cultural Influences on Growth and Development, 192 The Nurse's Role in Adolescent Growth and Development, 193 Nursing Process Overview, 193 Promoting Healthy Growth and Development, 193 Addressing Common Developmental Concerns, 203	Chapter 15 Pain Management in Children
Unit 3	Unit 4
Foundations of Pediatric Nursing215	Nursing Care of the Child With a Health Disorder415
Chapter 9	Chapter 16
Health Supervision	Nursing Care of the Child With an Infectious or Communicable Disorder417 Infectious Process, 418

Variations in Pediatric Anatomy	Chapter 18		
and Physiology, 420	Nursing Care of the Child With		
Common Medical Treatments, 420	a Disorder of the Eyes or Ears517		
Sepsis, 433	Variations in Pediatric Anatomy		
Bacterial Infections, 435	and Physiology, 518		
Scarlet Fever, 435	Common Medical Treatments, 518		
Cat Scratch Disease, 436	Infectious and Inflammatory Disorders		
Diphtheria, 437	of the Eyes, 525		
Pertussis, 437	Conjunctivitis, 525		
Tetanus, 438	Nasolacrimal Duct Obstruction, 527		
Viral Infections, 438	Eyelid Disorders, 527		
Viral Exanthems, 439	Periorbital Cellulitis, 528		
Mumps, 439	Eye Injuries, 529		
Poliomyelitis, 439	Visual Disorders, 531		
Rabies, 445	Refractive Errors, 532		
Vector-Borne Infections, 446	Astigmatism, 532		
Lyme Disease, 446	Strabismus, 533		
Rocky Mountain Spotted Fever, 449	Amblyopia, 534		
Parasitic and Helminthic Infections, 451	Nystagmus, 534		
Sexually Transmitted Infections, 451	Infantile Glaucoma, 534		
	Congenital Cataract, 535		
Chapter 17	Retinopathy of Prematurity, 535		
Nursing Care of the Child With	Visual Impairment, 536		
a Neurologic Disorder	Otitis Media, 538		
Variations in Pediatric Anatomy	Acute Otitis Media, 538		
and Physiology, 467	Otitis Media With Effusion, 540		
Common Medical Treatments, 467	Otitis Externa, 542		
Seizure Disorders, 467	Hearing Loss and Deafness, 543		
Epilepsy, 475			
Febrile Seizures, 489	Chapter 19		
Neonatal Seizures, 489	Nursing Care of the Child With		
Structural Defects, 499	a Respiratory Disorder549		
Neural Tube Defects, 490			
Microcephaly, 492	Variations in Pediatric Anatomy		
Arnold-Chiari Malformation, 492	and Physiology, 550 Common Medical Treatments, 552		
Hydrocephalus, 492			
Intracranial Arteriovenous	Acute Infectious Disorders, 566 Common Cold, 566		
Malformation (AVM), 496	Sinusitis, 568		
Craniosynostosis, 496	Influenza, 570		
Positional Plagiocephaly, 498	Pharyngitis, 571		
Infectious Disorders, 499	Tonsillitis, 572		
Bacterial Meningitis, 499	Infectious Mononucleosis, 573		
Aseptic Meningitis, 501	Laryngitis, 573		
Encephalitis, 502	Croup, 573		
Reye's Syndrome, 503	Epiglottitis, 574		
Botulism, 503	Bronchiolitis (RSV), 580		
Rabies, 504	Pneumonia, 578		
Trauma, 504	Bronchitis, 580		
Head Trauma, 504	Tuberculosis, 580		
Nonaccidental Head Trauma, 508	Acute Noninfectious Disorders, 581		
Birth Trauma, 510	Epistaxis, 581		
Near Drowning, 510	Foreign Body Aspiration, 582		
Blood Flow Disruption, 511	Respiratory Distress Syndrome, 583		
Cerebral Vascular Disorders (Stroke), 512	Acute Respiratory Distress Syndrome, 583		
Periventricular/Intraventricular	Pneumothorax, 584		
Hemorrhage (PVH/IVH), 512	Chronic Diseases, 585		
Chronic Disorders, 513	Allergic Rhinitis, 585		
Headaches, 513	Asthma, 587		
Breath Holding, 514	Chronic Lung Disease, 597		
breath Holding, 314	Chilohile raing Disease, 37/		

XXIV CONTENTS

Cystic Fibrosis, 597 Apnea, 604 Tracheostomy , 605	Inflammatory Bowel Disease, 700 Celiac Disease, 702 Recurrent Abdominal Pain, 703
Chapter 20	Hepatobiliary Disorders, 705
Nursing Care of the Child With	Pancreatitis, 705 Gallbladder Disease, 706
a Cardiovascular Disorder	Jaundice, 707
Variations in Pediatric Anatomy	Biliary Atresia, 709
and Physiology, 613	Hepatitis, 710
Common Medical Treatments, 614	Cirrhosis and Portal Hypertension, 711
Congenital Heart Disease, 624	Liver Transplantation, 712
Disorders With Decreased Pulmonary	Chapter 22
Blood Flow, 629	
Disorders With Increased Pulmonary	Nursing Care of the Child With
Flow, 633	a Genitourinary Disorder
Obstructive Disorders, 637	Variations in Pediatric Anatomy
Mixed Defects, 639	and Physiology, 717 Common Medical Treatments, 717
Nursing Management of the Child With Congenital Heart Disease, 642	Urinary Tract and Renal Disorders, 726
Acquired Cardiovascular Disorders, 645	Structural Disorders, 726
Heart Failure, 66	Urinary Tract Infection, 736
Infective Endocarditis, 648	Enuresis, 738
Acute Rheumatic Fever, 649	Acquired Disorders Resulting in
Cardiomyopathy, 650	Altered Renal Function, 739
Hypertension, 651	Renal Failure, 743
Kawasaki Disease, 652	Reproductive Organ Disorders, 749
Hyperlipidemia, 654	Female Disorders, 749
Heart Transplantation, 655	Male Disorders, 753
Chapter 21	Chapter 23
Nursing Care of the Child With	Nursing Care of the Child With
a Gastrointestinal Disorder	a Neuromuscular Disorder
Variations in Pediatric Anatomy	Variations in Pediatric Anatomy
and Physiology, 661	and Physiology, 761
Common Medical Treatments, 662	Common Medical Treatments, 761
Stool Diversions, 669	Congenital Neuromuscular Disorders, 766
Structural Anomalies of the GI Tract, 669	Neural Tube Defects, 770
Cleft Lip and Palate, 673	Muscular Dystrophy, 776
Meckel's Diverticulum, 676	Spinal Muscular Atrophy, 779
Omphalocele and Gastroschisis, 677	Cerebral Palsy, 781 Acquired Neuromuscular Disorders, 786
Inguinal and Umbilical Hernias, 678	Spinal Cord Injury, 787
Anorectal Malformations, 679 Acute GI Disorders, 680	Birth Trauma, 787
Dehydration, 680	Guillain-Barré Syndrome, 788
Vomiting, 681	Myasthenia Gravis, 789
Diarrhea, 683	Botulism, 790
Oral Candidiasis (Thrush), 685	0/
Oral Lesions, 686	Chapter 24
Hypertrophic Pyloric Stenosis, 686	Nursing Care of the Child With
Necrotizing Enterocolitis, 688	a Musculoskeletal Disorder
Intussusception, 689	Variations in Pediatric Anatomy
Malrotation and Volvulus, 690	and Physiology, 795
Appendicitis, 690	Common Medical Treatments, 797
Chronic GI Disorders, 692	Congenital and Developmental Disorders, 808
Gastroesophageal Reflux, 692	Pectus Excavatum, 808
Peptic Ulcer Disease, 694	Limb Deficiencies, 812
Constipation and Encopresis, 695	Polydactyly/Syndactyly, 812
Hirschsprung's Disease (Congenital Aganglionic Megacolon), 698	Metatarsus Adductus, 812 Congenital Clubfoot, 813
Short Bowel Syndrome, 699	Osteogenesis Imperfecta, 813
, o i i i o / o / /	20122921120011110010010,010

Septic Arthritis, 21 Transient Synavitis of the Hilp, 822 Sociolosis, 822 Infracture, 826 Fracture, 826 Sprains, 830 Overuse Synafromes, 830 Oblocated Radial Head, 831 Oblocated Radial Head, 832 Oblocated Radial Head, 831 Oblocated Radial Head, 832 Oblocated Radial Head, 831 Oblocated Radial Head, 832 Oblocated Radial Head, 832 Oblocated Radial Head, 833 Oblocated Radial Head, 831 Oblocated Radial Head, 832 Oblocated Radial Head, 831 Oblocated Radial Radial Head, 831 Oblocated Radial Head, 831 Oblocated Radial Head, 831 Oblocated Radial Head, 832 Oblocated Radial	Developmental Dysplasia of the Hip, 815 Tibia Vara (Blount's Disease), 817 Torticollis, 818 Acquired Disorders, 818 Rickets, 819 Slipped Capital Femoral Epiphysis, 819 Legg-Calvé-Perthes Disease, 820 Osteomyelitis, 820	Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency, 891 Clotting Disorders, 891 Idiopathic Thrombocytopenia Purpura, 891 Henoch-Schonlein Purpura, 893 Disseminated Intravascular Coagulation, 894 Hemophilia, 894 Von Willebrand Disease, 896
Scollosis, 822 Injuries, 826 Friacture, 826 Sprains, 830 Overuse Syndromes, 830 Dislocated Radial Head, 831 Chapter 25 Chapter 25 Variations in Pediatric Anatomy and Physiology, 830 Common Medical Treatments, 836 Injuries, 836 Common Medical Treatments, 836 Injuries, 836 Hypersensitivity Reactions, 841 Adopic Dermatitis, 847 Contact Dermatitis, 847 Contact Dermatitis, 848 Erythema Multiforme, 850 Utricaria, 850 Seborrhea, 851 Psoriast, 852 Acne Neonatorum, 852 Acne	Septic Arthritis, 821 Transient Synovitis of the Hip. 822	Chapter 27
Injuries, 326 Fracture, 826 Sprains, 830 Overuse Syndromes, 830 Dislocated Radial Head, 831 Chapter 25 Nursing Care of the Child With an Integumentary Disorder. Narising Care of the Child With an Integumentary Disorder. Narising Care of the Child With an Integumentary Disorder. Narising Care of the Child With an Integumentary Disorder. Narising Care of the Child With an Integumentary Disorder. National Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Fungal Infections, 845 Flypersensitity Reactions, 846 Diaper Dermatitis, 846 Diaper Dermatitis, 847 Contact Dermatitis, 847 Erythema Multiforme, 850 Utricaria, 850 Seborthea, 851 Psoriasis, 852 Acne, 852 Acne, 852 Acne, 852 Acne, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor injuries, 855 Burns, 855 Sunburn, 862 Cold injury, 863 Linsect Sitings and Spider Bitles, 864 Chapter 26 Nursing Care of the Child With at Hematologic Disorder. 900 Variations in Pediatric Anadromy and Physiology, 870 Common Medical Treatments, 929 Finitiary Disorders, 915 Syndroma Physiology, 879 Common Medical Treatments, 929 Finitiary Disorders, 915 Syndroma Physiology, 829 Common Medical Treatments, 929 Food Allergies, 918 Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing Care of the Child With an Endocrine Disorder. Nursing		
Fracture, 226 Sprains, 830 Overuse Syndromes, 830 Dislocated Radial Head, 831 Chapter 2:5 Variations in Pediatric Anatomy and Physiology, 901 Common Medical Treatments, 902 Miskott-Aldrich Syndrome, 911 Severe Combined Immune Deficiency, 911 Severe Co		
Sprains, 830 Overuse Syndromes, 830 Dislocated Radial Head, 831 Chapter 25 Nursing Care of the Child With an Integumentary Disorder. Nursing Care of the Child With and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 845 Hypersensitivity Reactions, 845 Diaper Dermatitis, 846 Atopic Dermatitis, 847 Erythema Mutifforme, 850 Ufficaria, 850 Seborinea, 851 Psoriasis, 852 Acne, 862 Acne, 862 Alone Neonaforum, 852 Acne, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With and Physiology, 870 Common Medical Treatments, 902 Primary Immunodeficiencies, 905 Hypogammaglobulinemia, 909 Wiskott-Aldrich Syndrome, 911 Severe Combined Immune Deficience, 911 Hy Infection, 912 Autoimmune Disorders, 912 HU Infection, 912 Autoimmune Disorders, 915 Juvenile Idiopathic Arthritis, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 220 Latex Allergy, 921 Autoimmune Disorders, 918 Food Allergies, 918 Food Allergies, 918 Anaphylaxis, 220 Latex Allergy, 921 Autoimmune Disorders, 915 Juvenile Idiopathic Arthritis, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Food Allergies, 918 Anaphylaxis, 220 Latex Allergy, 921 Autoimmune Disorders, 915 Juvenile Idiopathic Arthritis, 917 Allergy and Anaphylaxis, 920 Latex Allergy, 921 Autoimmune Disorders, 915 Autoimmune Disorders, 915 Autoimmune Disorders, 916 Autophylaxis, 920 Latex Allergy, 921 Autoimmune Disorde		
Overluse syntromies, sau Dislocated Radial Head, sai Dislocated Radial Head, sai Dislocated Radial Head, sai Primary Immunadeficiencies, 905 Nursing Care of the Child With an Integumentary Disorder. 835 Variations in Pediatric Anatomy and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 841 Fungal Infections, 843 Hypersensitivity Reactions, 846 Diaper Dermatitis, 846 Atopic Dermatitis, 846 Atopic Dermatitis, 846 Atopic Dermatitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Uritacria, 850 Seborrhea, 851 Psoriasis, 852 Acne, 856 Burnis, 855 Burnis, 855 Burnis, 855 Burnis, 855 Sunburn, 862 Cold Injury, 853 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. 868 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 970 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritinoal Causes of Anemia, 881 Lead Polsoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Diabetes Mellitus Type 2, 967	·	•
Chapter 25 Chapter 25 Chapter 26 Nursing Care of the Child With an Integumentary Disorder		
Chapter 25 Nursing Care of the Child With an Integumentary Disorder. An Integumentary Disorder. Sast Variations in Pediatric Anatomy and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 841 Fungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Utricaria, 850 Persoriasis, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Vulgaris, 854 Pressure Ulcers, 854 Minor Injuries, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Variations in Pediatric Anatomy and Physiology, 797 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritinal Causes of Anemia, 881 Lead Polsoning, 881 Aplastic Anemia, 888 Hemoglobinopathies, 844 Sickle Cell Disease, 884 Placet Polsoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 844 Sickle Cell Disease, 884 Hyperstanding Syndrome, 911 Severe Combined Immuna Deficiency, 911 Secondary Immunadeficiencies, 912 Autoimmuna Deficiencies, 912 Autoimmuna Disorders, 915 Systemic Lupus Erythematosus, 915 Juvenile Idiopathic Arthritis, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Allory and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Altoimmuna Disorder Chritish, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Altormuna Disorder, 915 Systemic Lupus Erythematosus, 915 Juvenile Idiopathic Arthritis, 917 Allergy and Anaphylaxis, 920 Latex Allergy, 921 Altormuna Disorder Chritish, 917 Allergy and Anaphylaxis, 920 Latex Allergy, 921 Altormuna deficiencies, 912 Autoimmuna deficiencie	Dislocated Radial Head, 831	
Nursing Care of the Child With an Integumentary Disorder. An Integumentary Disorder. Variations in Pediatric Anatomy and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 841 Fungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 847 Contact Dermatitis, 847 Contact Dermatitis, 847 Erytherna Multiforme, 850 Urticaria, 850 Urticaria, 850 Seborrhea, 851 Psoriosis, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Anne Vulgaris, 854 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Sunburn, 862 Colad Injur, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. Nursing Care of the Child With a Hematologic Disorder. Anemia, 875 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Ofther Nutritinal Causes of Anemia, 881 Lead Polsoning, 881 Aplastic Anemia, 888 Hemoglobinopathies, 884 Sickle Cell Disease, 884	Chapter 25	
an Integumentary Disorder. Variations in Pediatric Anatomy and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 841 Bacterial Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 846 Atopic Dermatitis, 847 Contact Dermatitis, 847 Erythema Multiforme, 850 Ufficiaria, 850 Seborrhea, 851 Psoriasi, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Ane Neonatorum, 852 Ane Ninor Injuries, 855 Burns, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder Anemia, 875 Common Medical Treatments, 870 Anemia, 875 Common Medical Treatments, 870 Anemia, 875 Common Medical Treatments, 877 Other Nutritional Causes of Anemia, 881 Lead Polsoning, 881 Aplastic Anemia, 883 Hemaglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884		
Variations in Pediatric Anatomy and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 845 Hypersensitivity Reactions, 845 Hypersensitivity Reactions, 845 Hypersensitivity Reactions, 846 Atopic Dermatitis, 847 Contact Dermatitis, 847 Contact Dermatitis, 847 Contact Dermatitis, 847 Erythema Multiforme, 850 Urticaria, 850 Seborrhea, 851 Psoriasis, 852 Acne, Neonatorum, 852 Acne, Neonatorum, 852 Acne, Vulgaris, 854 Pressure Ulcers, 854 Pinjuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With an Endocrine Disorder. Variations in Anatomy and Physiology, 879 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Herman lass Hemoglobinopathies, 884 Sickle Cell Disease, 884 Hill Infectious, 912 Autoimmune Disorders, 915 Systemic Lupus Erythematosus, 915 Juvenile Idiopathic Arthritis, 917 Altomune Disorders, 915 Systemic Lupus Erythematosus, 915 Juvenile Idiopathic Arthritis, 917 Altomune Disorder, 818 Survenile Liquus Erythematosus, 915 Juvenile Idiopathic Arthritis, 917 Altomune Disorder, 818 Survenile Liquus Erythematosus, 915 Juvenile Idiopathic Arthritis, 917 Altomune Disorder, 848 Anaphylaxis, 918 Foad Allergies, 918 Anaphylaxis, 918 Foad Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Latex Allergy, 921 Variations In Anatomy and Physiology, 829 Common Medical Treatments, 929 Pflutiary Disorder, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pflutiary Gigantism), 943 Precocious Puberty, 944 Pelayed Puberty, 945 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hyperparathyroidism, 952 Hyperparathyroi		,
and Physiology, 836 Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 841 Eungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 846 Atopic Dermatitis, 847 Contact Dermatitis, 847 Erythema Multiforme, 850 Utficaria, 850 Seborthea, 851 Psoriasis, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Vulgaris, 855 Burns, 856 Burns, 856 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Polsoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Autolimmune Disorders, 915 Systemic Lupus Erythematosus, 915 Juvenile Idiopathic Anthritis, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Lafex Allergy, 921 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 829 Pitultary Disorders, 915 Juvenile Idiopathic Arithritis, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Lafex Allergy, 921 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 829 Pitultary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpitultarism (Pitultary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 944 Delayed Puberty, 945 Disorders Related to Parathyroidism, 948 Acquired Hypothyroidism, 950 Disorders Related to Parathyroidism, 952 Hyperparthyroidism, 952 Disorders Related to Adrenal Gland Function, 935 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 985 Diabetes Mellitus Type 2, 957 Diobetes Mellitus Type 2, 957	0 ,	·
Common Medical Treatments, 836 Infectious Disorders, 841 Bacterial Infections, 841 Fungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 846 Atopic Dermatitis, 847 Contact Dermatitis, 847 Erythema Multiforme, 850 Utrlicaria, 850 Seborthea, 851 Psoriasis, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Variations in Pediatric Anatomy and Physiology, 870 Chem Nutfith and Causes of Anemia, 875 Iron Deficiency Anemia, 879 Other Nutfith and Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Systemic Lupus Erythematosus, 915 Juvenile Idiopathic Atharthritis, 917 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Allergy and Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 829 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 946 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Hyperparthyroidism, 950 Hyperparthyroidism, 952 Lade Anaphylaxis, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 927 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 297 Common Medical Treatments, 299 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 944 Delayed Puberty, 946 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperphyroidism, 950 Hyperportary	•	
Infectious Disorders, 841 Bacterial Infections, 841 Fungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 847 Contact Dermatitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Utricaria, 850 Seborthea, 851 Psoriasis, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With at Hematologic Disorder Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 929 Pituitary Disorders, 937 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Hyperparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Bacterial Infections, 841 Fungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermatitis, 846 Atopic Dermatitis, 847 Contact Dermatitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Urticaria, 850 Seborrhea, 851 Psorfasis, 852 Acne, 852 Acne, Neonatorum, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Vulgaris, 854 Pressure Ulcers, 854 Minor Injuries, 855 Sumburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Allergy and Anaphylaxis, 918 Food Allergies, 918 Food Allergies, 918 Food Allergies, 918 Food Allergies, 918 Anaphylaxis, 920 Latex Allergy, 921 Anaphylaxis, 920 Latex Allergy, 92 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 92 Common Medical Treatments, 929 Plutitary Disorder, 937 Growth Hormone Cikalother, 93 Growth Hormone Deficiency,		· · · · · · · · · · · · · · · · · · ·
Fungal Infections, 845 Hypersensitivity Reactions, 846 Diaper Dermotitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Urticaria, 850 Seborrhea, 851 Psorifasis, 852 Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 929 Pitutary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pitutiary Gigantism), 943 Precoclous Puberty, 944 Delayed Puberty, 945 Disorders of Inpurion, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Itypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Icon Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Food Allergies, 928 Anaphylaxis, 920 Latex Allergy, 921 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 929 Pitutary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pitutiarism (Pitutiari		
Hypersensitivity Reactions, 846 Diaper Dermatitis, 846 Atopic Dermatitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Urticaria, 850 Seborrhea, 851 Psoriasis, 852 Acne, 852 Acne Neonatorum, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With and Physiology, 929 Common Medical Treatments, 929 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precoclous Puberty, 944 Delayed Puberty, 945 Diabetes Inspidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 877 Iron Deficiency Anemia, 887 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Anaphylaxis, 220 Latex Allergy, 921 Latex Allergy, 92 Nursing Care of the Child With an Endocrine Disorder		
Diaper Dermatitis, 846 Atopic Dermatitis, 847 Contact Dematitis, 849 Erythema Multiforme, 850 Urticaria, 850 Seborrhea, 851 Psoriasis, 852 Acne, 852 Acne, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 875 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 875 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Latex Allergy, 22 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing Care of the Child With an Endocrine Disorder. Shursing C		
Atopic Dermatitis, 847 Contact Dermatitis, 849 Erythema Multiforme, 850 Urticaria, 850 Seborthea, 851 Psoriasis, 852 Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Pressure Ulcers, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder Anemalogy, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 881 Lead Poisoning, 881 Aplastic Anemica, 883 Hemaglobinopathies, 884 Sickle Cell Disease, 884 Chapter 28 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 929 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone GIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		. ,
Erythema Multiforme, 850 Urticaria, 850 Seborrhea, 851 Psoriasis, 852 Acne, 852 Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Sunburn, 865 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. Common Medical Treatments, 929 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Parathyroid Gland Function, 951 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Nursing Care of the Child With an Endocrine Disorder. 928 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 929 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Disorders Related to Parathyroid of Gland Function, 951 Hyperparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Parathyroid Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Urticaria, 850 Seborrhea, 851 Psoriasis, 852 Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. A Hematologic Disorder. A Hematologic Disorder. Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritinoal Causes of Anemia, 881 Lead Poisoning, 881 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Acle Common Medical Treatments, 929 Pituitary Disorders, 927 Growth Hormone Deficiency, 941 Hyperpitultarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Hyperparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Adison's Disease, 955 Cushing's Syndrome, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957	Contact Dermatitis, 849	Chapter 28
Ufficaria, 850 Seborrhea, 851 Psoriasis, 852 Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sumburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder A Hematologic Disorder Anemica, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemaglobinopathies, 884 Second Anemia, 883 Hemaglobinopathies, 884 Second Anemia, 883 Hemaglobinopathies, 884 Sickle Cell Disease, 884 Acan Endocrine Disorder. Variations in Anatomy and Physiology, 929 Common Medical Treatments, 929 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperprituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADIH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 956 Diabetes Mellitus, 17pe 1, 957 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		Nursing Care of the Child With
Psoriasis, 852 Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder 868 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemaglobinopathies, 884 Sickle Cell Disease, 884 Variations in Anatomy and Physiology, 929 Common Medical Treatments, 929 Pituitary Disorders, 937 Common Medical Treatments, 929 Pituitary Disorders, 937 Corwth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus, 956 Diabetes Mellitus, 956		
Acne, 852 Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder 868 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 887 Aplastic Anemia, 883 Hemoglobinopathies, 884 Secondary Syndrome, 955 Pituitary Disorders, 937 Growth Hormone Deficiency, 941 Hyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypeparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 955 Diabetes Mellitus, 796 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Acne Neonatorum, 852 Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hyperparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		Common Medical Treatments, 929
Acne Vulgaris, 852 Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Injuries, 854 Precocious Puberty, 944 Phyperpituitarism (Pituitary Gigantism), 943 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957	•	
Injuries, 854 Pressure Ulcers, 854 Minor Injuries, 855 Burns, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder wand Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Injuries, 854 Precocious Puberty, 944 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Cushing's Syndrome, 955 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Minor Injuries, 855 Burns, 855 Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Minor Injuries, 854 Delayed Puberty, 945 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Usorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Burns, 855 Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Diabetes Insipidus, 945 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957	Pressure Ulcers, 854	,
Sunburn, 862 Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder 868 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Syndrome of Inappropriate Antidiuretic Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hyperparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 796 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder. 868 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Hormone (SIADH), 947 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 955 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Cold Injury, 863 Human and Animal Bites, 863 Insect Stings and Spider Bites, 864 Chapter 26 Nursing Care of the Child With a Hematologic Disorder 868 Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Disorders of Thyroid Function, 948 Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Hyperparathyroidism, 952 Hyperparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Congenital Adrenal Gland Function, 953 Congenital Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Diabetes Mellitus, 756 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Congenital Hypothyroidism, 948 Acquired Hypothyroidism, 950 Hyperthyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hypoparathyroidism, 952 Hypoparathyroidism, 952 Hypoparathyroidism, 952 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyporthyroidism, 952 Hypoparathyroidism, 952 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Congenital Hypothyroidism, 950 Disorders Related to Parathyroid Gland Function, 952 Congenital Adrenal Hypoparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 952 Congenital Adrenal Hypoparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 953 Congenital Adrenal Gland Function, 953 Congenital Hypothyroidism, 950 Disorders Related to Parathyroid Gland Function, 952 Hypoparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 952 Hypoparathyroidism, 950 Disorders Related to Parathyroid Gland Function, 953 Congenital Hypothyroidism, 950 Disorders Related to Parathyroid Gland Function, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hypoparathyroidism, 952 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Gland Function, 953 Congenital Adrenal Gland Function, 955 Cushing is Syndrome, 955 Disorders Related to Parathyroidism, 950 Disorders Related to Parathyroidism, 950 Disorders Related to Parathyroid Gland Function, 951 Hypoparathyroidism, 952 Congenital Hypoparathyroidism, 952 Congenital Hypoparathyroidism, 952 Congenital Adrenal Hypoparathyroidism, 952 Congenital Hypoparathyroidism, 9		
Chapter 26 Nursing Care of the Child With a Hematologic Disorder		
Nursing Care of the Child With a Hematologic Disorder	insect onings and spider bires, 604	
Nursing Care of the Child With a Hematologic Disorder	Chapter 26	, ,
A Hematologic Disorder	-	
Variations in Pediatric Anatomy and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Pisorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957	· · · · · · · · · · · · · · · · · · ·	
and Physiology, 870 Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Disorders Related to Adrenal Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		,, , , , , , , , , , , , , , , , , , ,
Common Medical Treatments, 870 Anemia, 875 Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Sickle Cell Disease, 884 Gland Function, 953 Congenital Adrenal Hyperplasia, 953 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957	. •	
Iron Deficiency Anemia, 879 Other Nutritional Causes of Anemia, 881 Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Addison's Disease, 955 Cushing's Syndrome, 955 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Lead Poisoning, 881 Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Polycystic Ovary Syndrome, 956 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Aplastic Anemia, 883 Hemoglobinopathies, 884 Sickle Cell Disease, 884 Diabetes Mellitus, 956 Diabetes Mellitus Type 1, 957 Diabetes Mellitus Type 2, 957		
Hemoglobinopathies, 884Diabetes Mellitus Type 1, 957Sickle Cell Disease, 884Diabetes Mellitus Type 2, 957		
Sickle Cell Disease, 884 Diabetes Mellitus Type 2, 957		

Chapter 29	Chapter 31
Nursing Care of the Child With	Nursing Care of the Child With
a Neoplastic Disorder967	a Cognitive or Mental Health Disorder 1045
Childhood Cancer Versus Adult Cancer, 968	Effects of Mental Health Issues on Health
Common Medical Treatments, 969	and Development, 1046
Leukemia, 992	Common Medical Treatments, 1046
Acute Lymphoblastic Leukemia, 992	Developmental and Behavioral Disorders, 1050
Acute Myelogenous Leukemia, 994	Learning Disabilities, 1050
Lymphomas, 995	Mental Retardation, 1054
Hodgkin's Disease, 995	Autism Spectrum Disorder, 1055
Non-Hodgkin's Lymphoma, 995	Attention-Deficit/Hyperactivity Disorder, 1056
Brain Tumors, 996	Tourette Syndrome, 1058
Neuroblastoma, 998	Eating Disorders, 1058
Bone and Soft Tissue Tumors, 999	Mood Disorders, 1059
Osteosarcoma, 999	Anxiety Disorders, 1061
Ewing Sarcoma, 1000	Abuse and Violence, 1062
Rhabdomyosarcoma, 1000	Physical and Sexual Abuse, 1062
Wilms' Tumor, 1001	Müunchausen Syndrome by Proxy, 1064
Retinoblastoma, 1003	Substance Abuse, 1064
Screening for Reproductive Cancers	
in Adolescents, 1004	Chapter 32
Cervical Cancer, 1004 Testicular Cancer, 1004	Nursing Care During
resticular Caricer, 1004	a Pediatric Emergency1069
Chapter 30	Common Medical Treatments, 1070
	Nursing Management of Children
Nursing Care of the Child With	Experiencing Emergencies, 1082
a Genetic Disorder 1009	Respiratory Arrest, 1082
Inheritance, 1010	Shock, 1094
The Human Genome, 1010	Cardiac Arrhythmias and Arrest, 1097
Patterns of Inheritance, 1011	Near-Drowning, 1102
Genetic Evaluation and Counseling, 1015	Poisoning, 1104
Nurse's Role and Responsibilities, 1016	Trauma, 1104
Common Medical Treatments, 1016 Common Chromosomal Abnormalities, 1024	Appendix A, Growth Charts, 1111
Trisomy 21 (Down Syndrome), 1024	Appendix B, Denver II Development Assessment, 1122
Trisomy 18 and Trisomy 13, 1030	Appendix C, The Food Guide Pyramid, 1125
Turner Syndrome, 1030	
Klinefelter Syndrome, 1032	Appendix D, Blood Pressure Charts for Children
Fragile X Syndrome, 1033	and Adolescents, 1127
Neurocutaneous Disorders, 1033 Neurofibromatosis, 1034	Appendix E, Down Syndrome Health Care Guidelines, 1132
Other Genetic Disorders, 1035 Inborn Errors of Metabolism, 1038	Index, 1135
INDOM ENDIS OF MEIODORSHI, 1030	IIIuon, 1100