DELMAR'S PEDIATRIC NURSING CARE PLANS - 3rd Ed. (2005)

FRONT MATTER

TITLE PAGE

DELMAR'S PEDIATRIC NURSING CARE PLANS THIRD EDITION

KARLA L. LUXNER, RNC, ND



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PREFACE

Health promotion, restoration, and disease prevention in children require the care and attention of parents and family as well as health care providers. Children are not simply small adults, but have their own unique physiologic, psychological, and cognitive processes at each stage of development. Pediatric nurses work with parents and families in the community as well as acute care settings to protect and enhance the well-being of infants and children so they may reach their full potential. Awareness and respect for cultural variation is essential to modern nursing as is sound scientific knowledge providing the framework for evidence-based practice.

CONCEPTUAL APPROACH

The nursing process serves as a learning tool for readers and as a practice and documentation format for clinicians. Based on a thorough assessment, the nurse formulates a specific care plan for each individual client. The care plans in this book are provided to facilitate that process for readers and practitioners. To that end, each care plan solicits specific client data and prompts the nurse to individualize the interventions, consider cultural relevance, and evaluate the client's individual response. The book provides basic nursing care plans for common diagnoses related to each body system followed by care plans and flow charts for specific illnesses commonly encountered in the pediatric population.

ORGANIZATION

Delmar's Pediatric Nursing Care Plans, 3rd edition, includes care plans that have been developed to reflect comprehensive pediatric nursing care based on the most common psychosocial and physiologic alterations. Because care is based on solid application of principles of growth and development, and respect and appreciation of the parents and family as partners in the care of their children, the book opens with an overview of growth and development of children. Subsequent chapters offer an overview of each body system, covering basic and diseasespecific care plans. The diagnoses are cross-referenced, and the practitioner is encouraged to add, subtract, delete, and otherwise adapt the diagnoses to provide individualized care for a specific client.

Nursing care begins with a comprehensive review and assessment of each individual client. The data are then analyzed and a specific plan of care developed. Interventions for each diagnosis must again be individualized for each client. The format for each nursing care plan in this book is summarized below.

- Nursing diagnoses as approved by the North American Nursing Diagnosis Association (NANDA) taxonomy (2003-2004).
- Related factors (etiology) for each diagnosis are suggested and the user is prompted to choose the most appropriate for the specific client.
- Defining characteristics for each actual diagnosis are listed with prompts to the user to include specific client data from the nursing assessment.
- Goals are related to the nursing diagnosis and include a time frame for evaluation to be specified by the user.
- Appropriate outcome criteria specific for the client are suggested. In keeping with current practice, this edition includes a Nursing Outcome Classification (NOC) label for each nursing diagnosis.
- Nursing interventions and rationales are comprehensive. They include pertinent continuous assessments and observations. Common therapeutic actions originating from nursing and those resulting from collaboration with the primary caregiver are suggested with prompts for creativity and individualization. Client and family teaching and psychosocial support are provided with respect for cultural variation and individual needs. Consultation and referral to other caregivers is suggested when indicated.
- Nursing Intervention Classification (NIC) labels are provided in this new edition for each nursing diagnosis. These are inserted after the interventions and rationales to assist the user in becoming familiar with this classification process for nursing interventions.
- Evaluation of the client's goal and presentation of data related to the outcome criteria is followed by consideration of the next step for the client.
- A new, descriptive introductory chapter outlines how to customize care plans for an individual client based on the standardized care plans found in

this book.

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AN INTRODUCTION TO THE USE OF THE NURSING CARE PLANS

INTRODUCTION

Excellent nursing practice reflects proficient use of the nursing process demonstrated by skillful assessment, diagnosis, planning, outcome identification, intervention, and evaluation. The nursing process provides the framework that directs nursing practice. Nursing care planning is the application of the nursing process to a specific client situation. Written nursing care plans are a means of communication among health care providers, clients, and families. They ensure that care is coordinated to achieve desired health care outcomes.

A thorough assessment is the foundation of the nursing process. The assessment data are then reviewed and organized according to client needs. Nursing diagnoses, derived from the assessment, provide the basis for selection of interventions to achieve outcomes for which the nurse is accountable (NANDA, 2003). "Now, as never before, today's nurse must make more complex professional decisions, determine what things to do and what things not to do for which clients. Priorities are critical: often the nurse must make hard choices between what is essential and what is merely beneficial" (Barnum, 1999). The primary purpose of the nursing diagnostic processes applied by nurses is to design a plan of care for and in conjunction with the client that results in the prevention, reduction, or resolution of the client's health problem (Harkreader, 2004).

In the current multidisciplinary health care environment, nurses are positioned for a high level of accountability. The nurse is required to make many independent decisions and to coordinate the various disciplines working together and sharing responsibility for client outcome achievement. This environment affords nursing an opportunity to define its boundaries and to use the nursing process to coordinate care across disciplines. Nurses need to develop strong assessment skills, organize the data obtained to prioritize client needs, predict achievable, measurable client outcomes, and tailor interventions for the individual client. This text is designed to assist the user in that process.

NURSING CARE PLANS AND INDIVIDUAL CLIENT CARE NEEDS

This book is intended to facilitate the care planning process for nurses working with pediatric clients based on recognized nursing standards. Each of the nursing diagnoses is from NANDA's Taxonomy II (NANDA, 2003). The outcome criteria include the appropriate Nursing Outcome Classification

(NOC) as well as prompts to assist the user in developing individualized outcomes. This text also contains suggested Nursing Intervention Classifications (NIC) for each nursing diagnosis in addition to suggested comprehensive and individualized interventions for each diagnosis.

Each section begins with essential introductory information about the condition and the current medical management when appropriate. A thorough assessment of the client is essential to developing a plan of care. The user is prompted to insert specific client data into the care plan at strategic points in each diagnosis. The user is offered a variety of common and additional nursing diagnoses for each condition including:

- 1. The etiology (related to) for each diagnosis using specific client data obtained in the assessment.
- 2. Possible defining characteristics, with prompts for individualization, which support the diagnosis.
- 3. A client goal related to the nursing diagnosis with a prompt to identify an appropriate time frame for evaluation of the outcomes.
- 4. Measurable outcome criteria requiring the use of specific client data and individualized parameters.
- 5. Comprehensive and detailed nursing interventions with guidance to individualize care for the specific client.
- 6. Rationales for the nursing interventions to demonstrate evidence-based practice.

7. Evaluation based on individual client information. The user is prompted to evaluate goal achievement and present the specific client data called for in the outcome criteria.

The nursing care plans provided in this text are intended to serve as a framework on which to design individualized client care reflecting current nursing standards of care. The user must first obtain comprehensive, reliable, and detailed assessment information for the particular client using all available sources. The initial assessment data should then be interpreted and organized into categories reflecting prioritized client needs. Frequently, after reflecting on the initial assessment, the nurse will find that additional focused assessment data must be obtained before care can be planned. Appropriate nursing diagnoses are then selected and prioritized. Individual client data are the defining characteristics that support the choice of nursing diagnosis. A specific goal and the necessary outcome criteria that will be used to identify when the goal has been met should be based on the defining characteristics. Outcome criteria reflect the individual client's capabilities and expectations. The nurse then selects a comprehensive array of interventions to provide current evidence-based client care directed toward the outcomes and resolution of the problem. Interventions should also be prioritized and may include additional ongoing assessments, therapeutic nursing activities, collaborative interventions, client and family teaching, and referrals. Current standards of care for pediatric nursing practice have been incorporated throughout the text. Every effort has been made to prompt the user to insert individual client data and to specify the parameters of care as the care plan is developed. Thoughtful use of this text will guide the user to develop comprehensive individualized care plans based on current scientific knowledge and evidence for best practices.

The process for planning individualized care involves the same steps as the nursing process.

1. Collect assessment data from all available sources including the client, the family, other providers, and the chart. Chart data may include: nurse's notes or flow sheets; laboratory, diagnostic, or surgical reports; progress notes from dietary, rehab, or physical therapy; the physician's history and physical, and progress notes. Assess the client's current status through the interview, observation, and physical examination. After studying the health record and obtaining assessment data, organize the information into prioritized problem or client need categories.

2. Identify viable nursing diagnoses and potential client risks suggested by the categories of assessment data. Review the appropriate chapter in this text and review the nursing diagnoses provided for the condition. Choose the diagnoses that fit the specific client. The diagnostic process is individualized by identifying "related to" factors and "defining characteristics" that flow from the comprehensive client assessment. For example,

"Acute pain related to surgical incision" is supported by the client data, "verbalizes pain at a 9 on a scale of 0-10." The client's own words and pain rating support the diagnosis and guide the nurse to choose an outcome criteria of "verbalizes pain as less than 9 on a scale of 1-10" and interventions that must include assessment of pain using a scale of 1-10.

3. Plan to identify and meet client goals using specific outcomes as evidence. The goal pertains to the diagnosis and moves the client toward resolution of the problem within a reasonable time frame. The outcome criteria included in the text indicate options to measure goal attainment and encourage specific qualifiers such as when, how much, and individual client variables to be added to individualize the plan. "Client will experience decreased pain within 24 hours" is a clear goal with an achievable target time. "Verbalizes pain as 5 or less on a scale of 1-10" would be a measurable outcome that, if based on the particular client situation and capabilities, individualizes the plan and indicates goal attainment.

4. Design interventions to meet the goal and resolve the nursing diagnosis. Choose interventions pertinent to the client that are consistent with the medical orders. Ongoing assessment of the client's pain perception, positioning, teaching the client to ask for medication before pain becomes severe, and the administration of pain medications, specifying the drug, dose, route, and times as ordered, are examples of both independent and collaborative nursing interventions, which would achieve the outcome, attain the goal, and resolve the "Acute Pain" diagnosis.

5. Evaluate the effectiveness of the plan. By setting a client goal and specific observable outcomes, the plan communicates the need for ongoing evaluation and updating. Evaluation of the outcome criteria at the specified time will either indicate resolution of the problem or the need to continue or revise the care plan.

CRITICAL THINKING, THE NURSING PROCESS, AND CARE PLAN DEVELOPMENT

Critical thinking and decision-making skills are used to identify nursing diagnoses. Critical thinking entails purposeful, goal-directed thinking and analysis of information. The nurse uses critical thinking to make clinical judgments based on evidence. The nurse synthesizes the information collected in the assessment and then makes judgments about how to put the information together to form nursing diagnoses. The format of this book encourages the nurse to review the client history and obtain thorough assessment data that are significant for a particular condition. The nurse is then prompted to insert relevant assessment findings as appropriate to formulate an individualized nursing care plan.

The following case study illustrates how to apply individual client data to a care plan in this book.

PEDIATRIC ASTHMA CASE STUDY

A 14-year-old African-American female is brought to the pediatrician's office by her mother. She has just started running on her high school track team, but has been complaining to her mother that her running "feels different this year." When she ran in middle school she could race longer distances without becoming winded. She now says her "chest burns" and she is running fewer miles before she has to stop to catch her breath. Her girlfriend told her she could hear her wheezing and she should go to the nurse. The school nurse confirmed her wheezing and notified her mother to come pick her up from school. There is no history of asthma in the family but her parents both smoke cigarettes. The school nurse advised that cigarettes could be contributing to the child's respiratory complaints. At the pediatrician's office her peak flow is 380 L/min, which is within 5% of her predicted value for her height and weight. She does complain of coughing at night. Her lung sounds are now clear with no wheezing noted. Her ECG and heart sounds appear normal. She has no significant past medical history except for occasional ear infections. Immunizations are up-to-date, she is allergic to penicillin, and she denies smoking or drug use.

The family nurse practitioner (FNP) discusses the possibility of exercise-induced asthma with the client and her mother. She directs the client to measure her peak flow before running and if she experiences symptoms to stop running and again measure her peak flow. She is to repeat these measurements five times, five minutes apart, and return to the office with her records. The FNP writes a note to the track coach and school nurse outlining the procedure. On one week follow-up peak flow pattern shows recovery after 30 minutes but her peak flow diminishes to 70% -85% of

her estimated level. The FNP prescribes Albuterol, 2 puffs MDI, 15 minutes before exercise. The FNP reviews the peak flow guidelines with the mother and client and directs her to keep a daily record for two weeks and to return for reassessment.

Three months later the client awoke in the middle of the night coughing and experiencing shortness of breath. She was suffering from a cold and her parents had a holiday party that evening with the house filled with cigarette smoke. She checked her peak flow and found she was in the yellow zone. She used her Albuterol inhaler and woke her mother. Her peak flow was repeated for her mother and was now in the red zone. She self-administered more Albuterol and her mother took her to the emergency room where she was given a nebulizer treatment, oxygen, and steroids. Her peak flow remained at 200 L/min and she was admitted to the pediatric unit with acute asthma. Her vital signs were: temperature 99°F, heart rate 124, respiratory rate 34 breaths per minute and shallow with expiratory wheezing. Her O_2 saturation was 88%. She was placed on O_2 at 4L/min.

Upon admission the client's mother indicated awareness of the need for change by stating, "We have to do something to prevent this."

NURSING DIAGNOSIS #1

Ineffective Airway Clearance

Related to: Bronchospasm and increased pulmonary secretions.

Defining Characteristics: Shallow respirations with expiratory wheeze, respiratory rate 34, SaO₂ 88%, peak flow 200L/min after medications.

Goal: Client will maintain a clear airway throughout admission.

Outcome Criteria:

 $\sqrt{\text{Respiratory rate less than 24, lungs clear to auscultation, SaO₂ greater than 95%.$

NOC: Respiratory Status: Ventilation

INTERVENTIONS

Assess respirations for rate (count one full minute), pattern depth, and ease, auscultate lung sounds, and note use of accessory muscles and retractions q 4 h. Assess for cough, characteristics of cough and sputum q 4 h. Administer humidified oxygen at 4 L/min via nasal canula per physician's order. Monitor O₂ saturation continuously reporting saturation that remains less than 93% to the physician.

Assess skin for pallor or cyanosis every 4 hours, note distribution or duration of cyanosis (nail beds, skin, mucous membranes, circumoral).

Position with head elevated at least 30° or seated upright with head on pillows; position on side if more comfortable; avoid tight clothing or bedding; use pillows and/or padding as needed to maintain positioning.

Demonstrate and instruct to parents and child possible positions for comfort and ventilation during activities and sleep.

Teach parents and child correct disposal of tissues; appropriate covering of mouth and nose when coughing to avoid respiratory infections.

Pace activities and exercises and allow for rest periods and energy conservation. Instruct child in relaxation exercises, quiet play, and controlled

breathing.

Teach and demonstrate use of oxygen saturation monitor to parents (application, settings, alarm, electric source).

NIC: Airway Management

NURSING DIAGNOSIS #2

Health Seeking Behaviors: Prevention of Asthma Attack

Related to: Expressed desire for information about preventive measures for child's asthma.

Defining Characteristics: Mother states, "we have to do something to prevent this".

Goal: Client and family will obtain information about asthma prevention during hospitalization.

Outcome Criteria:

 \checkmark Parents and child verbalize understanding of triggering agents and prevention measures for asthma attacks.

NOC: Health-Promoting Behavior

INTERVENTIONS

Assess for knowledge of factors related to attacks, past history of respiratory infections, and measures taken to maintain health of child.

Assess health history of allergies in family members, what does or does not precipitate attack, and what behaviors result from the attack.

Teach parents and child handwashing technique; allow for demonstration.

Teach child to avoid contact with those who have respiratory infections, how to cover mouth and nose when coughing or sneezing, and to dispose of tissues properly.

Discuss with parents/child about physiology and signs and symptoms of the disease and possible precipitating factors influencing an attack.

Discuss with parents and child the signs and symptoms indicating the onset of an attack (change in respirations, wheezing, dyspnea).

Teach parents of the effect of cigarette smoke and allergens, and how to avoid exposure to offending environmental factors (cold air, humidity, air pollution, sprays, plants).

Assist parents to identify ways to change the home environment to reduce smoke, dust, exposure to pets, and indoor plants, changing of filters, avoidance of foods (yellow dye), and drugs (aspirin).

Teach the child breathing exercises and controlled breathing and relaxation techniques.

INTERVENTIONS

Teach parent and child about medication administration as ordered at discharge (specify drug, dose route, and times to be given) and how to manage method of administration. Advise to avoid over-the-counter drugs without physician advice.

Refer to community health department for additional information and adolescent asthma support group.

NIC: Health Education

CLINICAL PATHWAYS: A METHOD OF ACHIEVING OUTCOMES ACROSS THE CONTINUUM OF CARE

Health care consumers expect affordable care and optimal outcomes. Third-party providers scrutinize client outcomes to validate the need for expensive health care services. Health care organizations report outcomes to state, federal, and independent agencies to verify practice standards and attract consumers and providers. The demand for the most effective and cost-efficient manner of restoring clients to health has led to collaborative responsibility for client care demonstrated by the clinical pathway. Clinical pathways, also known as "care maps," are care management tools that outline the expected clinical course and outcomes for a specific client type (Kelly-Heidenthal, 2003). The manner in which a pathway is constructed is usually agency-specific but typically it follows the client's length of stay on a day-by-day basis for the specific disease process or surgical intervention. Clinical pathways are a clinical tool that organizes, directs, and times the major care activities and interventions of the entire multidisciplinary team for a particular diagnosis or procedure. Their design is intended to minimize delays, maximize appropriate resource utilization, and promote high-quality care. "The clinical pathway describes a blended plan of care constructed by all providers, considering the subject together" (Barnum, 1999).

Clinical pathways identify standard client outcomes against which the efficiency of care may be measured. The pathway guides the care team along a sequence of interdisciplinary interventions that incorporate standardized aspects such as client and family teaching, nutrition, medications, activities, diagnostic studies, and treatments. The tool is developed collaboratively by all health team members and includes predictable and established time frames, usually by delineating each hospital day as an event requiring new intervention along a continuum. A care map provides consistency of client care activities. Clinical pathways also, because of their standardization of practice, allow for measuring performance improvement within an agency and between similar agencies over time.

Clinical pathways can only guide rather than dictate the course of care for an individual. They do not take into account additional client problems that may affect the client's recovery. Therefore, the process of incorporating clinical pathways is the same as in individualizing care plans. The nurse must include the individualized client needs in conjunction with the standard clinical pathway. When the client's needs vary from the expected outcome time frame, the nurse must reassess, report, and manage the variance to meet the client's needs. The manner of reporting variances is agency-specific. Not all clients' care can be organized into a clinical pathway model. For more complex client care situations an individualized care plan applying the various nursing diagnoses in this text, is more appropriate.

Well-designed nursing care plans and/or care maps move the client from one level of care on the health continuum to another. These tools help the nurse to monitor and guide the progress of the client through a particular health condition including preventive and restorative phases and end-of-life care. Care planning organizes and coordinates client care according to relevant standards, promotes consistency and communication between caregivers, and incorporates the problem-solving process which integrates responsiveness to client needs and cost-efficiency.

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UNIT 1 - GROWTH AND DEVELOPMENT OF CHILDREN

CHAPTER 1.0 - GROWTH AND DEVELOPMENT

INTRODUCTION

A solid understanding of growth and development is essential for planning and providing nursing care for infants and children. The child's ability to cope with stress, illness, hospitalization, or terminal illness is related to physical, cognitive, and psychosocial growth and development. Nursing care is designed to foster the individual child's growth and support his or her developmental needs.

DEVELOPMENTAL THEORIES

PSYCHOSOCIAL DEVELOPMENT (ERICKSON)

• Trust Versus Mistrust, Infant (birth to 1 year): Characterized by taking in through all the senses; loving care of a mothering person is essential to develop trust; must have basic needs met; attachment to primary caretaker.

The favorable outcome is faith and optimism.

• Autonomy Versus Shame and Doubt, Toddler (1 to 3 years): Characterized by increasing ability to control bodies, themselves, and their environment; seek independence, negativism, threatened by changes in routine, curious explorer.

The favorable outcome is self-control and will power.

• Initiative Versus Guilt, Preschool (3 to 6 years): Characterized by enterprise and a strong imagination; develop conscience; feelings of being punished; egocentric, inquisitive, rich fantasy life, and magical thinking.

The favorable outcome is direction and purpose.

• Industry Versus Inferiority, School-Age (6 to 12 years): Active learners, well-developed language skills and concept of time, concerns about body image, understands concept of death. Enjoy sorting and ordering, making collections, and super heroes. Exhibit cognitive conceit. Can assist with own care and appreciates rewards. Physically graceful and skilled; sports and clubs of same-sex peers are important.

The favorable outcome is competence.

• Identity Versus Role Confusion, Adolescent (13 to 18 years): Characterized by ability to deal with reality and abstractions, mood swings, changing body image; preoccupied with the way they appear in the eyes of others as compared to their own self-concept. Peers of both same and opposite-sex are very important to identity formation.

The favorable outcome is devotion and fidelity to others and to values and ideologists.

PSYCHOSEXUAL DEVELOPMENT (FREUD)

• Oral Stage (birth to 1 year): Characterized by infant-seeking pleasure via oral activities such as biting, sucking, chewing, and vocalizing.

• Anal Stage (1 to 3 years): Characterized by interest in the anal region and sphincter muscles (child is able to withhold or expel feces); toilet training is a major milestone (method of parent discipline, may have lasting effects on child's personality development).

• Phallic State (3 to 6 years): Characterized by interest and recognition in differences between the sexes and becomes very curious about these differences; often described as interest by females as penis envy and by males as castration anxiety.

• Latency period (6 to 12 years): Characterized by gaining increased skill on newly acquired traits and skills; interested in acquiring knowledge and vigorous play. Sexuality lies dormant while energy is focused elsewhere.

• Genital stage (12 years and over): Characterized by maturation of the reproductive system and production of sex hormones; genital organs become a source of tension and pleasure; interested in forming friendships and preparation for marriage as an adult.

INTERPERSONAL DEVELOPMENT (SULLIVAN)

• Infant (0 to 1 year): Receive gratification and comfort from loving, tender care; develops trust and ability to count on others.

• Childhood (2 to 5 years): Engage in peer, family, neighborhood activities; need adult participation; learn to delay gratification and accept interference with wishes: gradually seek attention and approval from peers.

• Juvenile (5 to 12 years): Engage in socialization, competition, cooperation, and compromise; develop shared interests and genuine friendships with peers of same sex, and later with opposite sex; give more allegiance to peers than to family; promote personal identity

COGNITIVE DEVELOPMENT (PIAGET)

• Sensorimotor (birth to 2 years): Characterized by progression from reflex activity through simple repetitive behaviors to imitative behaviors; information is gained through the senses and developing motor abilities; develop a sense of "cause and effect"; problem-solving is by trial and error; high level of curiosity, experimentation, and enjoyment in novelty; begin to separate self from others; develop sense of "object permanence"; begin language development.

• **Preoperational (2 to 7 years):** Characterized by egocentrism (inability to put oneself in the place of others); interpret objects and events in terms of their relationships or use of them; cannot see another's point of view; thinking is concrete, tangible; inability to make deductions or generalizations; display high level of imagination and questioning; reasoning is intuitive.

• Concrete Operations (7 to 11 years): Characterized by thoughts; become increasingly logical and coherent; able to classify, sort, organize facts, and begin to problem-solve; develop conservation (realize volume, weight, and number remain the same even though outward appearances are changed); solve problems in a concrete, systematic fashion, based on visual perceptions.

• Formal Operations (11 to 13 years): Characterized by thoughts which are adaptable and flexible; possess abstract thinking; able to make logical conclusions; able to make hypotheses and test them; can consider abstract, theoretical, philosophical issues.

MORAL DEVELOPMENT (KOHLBERG)

Based on cognitive development theory and consists of 3 major levels.

• **Preconventional Level (2 to 7 years):** Parallels Piaget's preoperational level of cognitive development and intuitive thinking. Characterized by development of: cultural values; sense of right and wrong; integrate things in terms of physical or pleasurable consequences of their actions. Initially, determines goodness or badness in terms of its consequences (attempt to avoid punishment). Later, determines right behavior consists of what satisfies own needs (and sometimes those of others).

• **Conventional Level (7 to 11 years):** Parallels Piaget's stage of concrete operations of cognitive development. Characterized by a concern with conformity and loyalty; value a specific group (i.e., the family, group, or national expectations); behavior that conforms to specific group considered good and earns approval. Values such as fairness, give and take, and sharing interpreted in a practical manner without loyalty, gratitude, or justice.

• **Postconventional, Autonomous, or Principled Level (11 to 15 years):** Parallels Piaget's stage of formal operations. Characterized by tendency/desire to display correct behavior in terms of individual rights and standards; begins to question possibility of changing existing laws/rules in terms of societal needs.

SPIRITUAL DEVELOPMENT (FOWLER)

Five stages of development of faith; four are closely associated with parallel cognitive (Piaget) and psychosocial (Erickson) development in childhood.

• Stage O, (Undifferentiated): Characterized by infant period of development, in which the infant is unable to determine concept of right or wrong. Development of basic trust lays the foundation for beginning faith.

• Stage 1, (Intuitive-projectile): Characterized by toddler period of development, in which the primary behavior is referred to as imitating religious gestures and behaviors of others. Unable to comprehend meaning or significance of religious practices; begin to assimilate religious values and beliefs held by parents; do not attempt to understand basic concepts of religion.

• Stage 2, (Mythical-literal): Characterized by school-age period of development, in which the child's spiritual development parallels cognitive development. Belief that spiritual development is associated with previous experiences and societal interactions. Newly-acquired conscience influences actions (good vs. bad; bad actions create guilt); petitions to an omnipotent being important; able to articulate their faith.

• Stage 3, (Synthetic-convention): Characterized by early phase of adolescent period of development, in which become aware of spiritual disappointments (i.e., prayers are not always answered); may begin to abandon or modify previous religious practices and those established by their parents.

• Stage 4, (Individuating-reflexive): Characterized by middle phase of adolescent period of development, in which the adolescent may become skeptical and begin to compare religious standards of their parents and significant others. The adolescent will begin to compare religious beliefs with scientific facts, described as a period of searching for answers; and to be uncertain about their religious ideas.

SELECTED MILESTONES

GROSS MOTOR

• **O to 4 months:** Lifts head if in prone position with head erect or bobbing and back rounded; raises chest with support of arms flexed limbs; 0 to 1 month, startle and rooting reflex are very strong, Moro reflex begins to fade at 2 months; 2 to 4 months, decrease in head lag when pulled up to sitting position.

• 4 to 8 months: Holds head up and erect without support; lifts head and shoulders to 90 degree angle and rolls from back to side; turns over both ways; supports weight on legs and may pull self into sitting position; beginning at 4 months, able to sit with support; head lag disappears; by 7 months, able to sit alone without support; likes to bounce on legs when held in standing position; Moro reflex has disappeared.

• 8 to 12 months: Sits alone, creeps, crawls, cruises, sits from standing position without assistance, prefers being up instead of lying down; at 9 months, stands while holding onto furniture and able to pull self to standing position; at 11 months walks while holding onto furniture or with both hands held; at 12 months may be able to walk with one hand held.

• 12 to 15 months: Walks alone with side-based gait, creeps up stairs, throws things.

• 15 to 24 months: Walks alone with improvement, runs, pulls toys when walking, walks on toes, walks backwards, climbs up steps, climbs on furniture, sits on small chair, stands on one foot.

• 2 years: Walks with steady gait, runs with few falls, walks on toes, stands on one foot, walks up and down stairs, jumps, kicks ball, rides tricycle, throws ball overhand.

• 3 and 4 years: Pedals tricycle, climbs and jumps well, walks up and down stairs with alternating feet, gains increased coordination and balance, hops on one foot, throws ball overhand proficiently.

• 5 and 6 years: Hops; skips well; jumps rope; has improved coordination and control of muscles; active; throws and catches ball; runs without difficulty, hits nail on head.

• 7, 8, and 9 years: Repeats activities for mastery; active; rhythm, smoothness, and control of muscular movements increases; displays motor skills; strength and endurance increase.

• 10, 11, and 12 years: Has control of timing, graceful high level of energy, explores environment, participates in team sports, builds or constructs things, interested in physical skills.

FINE MOTOR

• **O to 4 months:** Attempts to grab object but misses, brings object to mouth, holds hands in front and plays with hands and feet, grasps object with both hands; 1 month displays grasp reflex; 3 months, hands are usually open; 2 to 4 months, looks and plays with own fingers; 3 months, when object is placed in hands, will retain briefly; 4 months, reaches for objects and picks them up with a raking action of fingers.

• 4 to 8 months: Grasps with thumb and fingers, explores objects, moves arms at sight of toy, reaches for object, picks up object with cupped hands, holds objects in both hands at same time, holds own bottle, puts nipple in mouth, feeds self a cookie; 5 months, able to voluntarily grasp an object; 6 to 7 months, able to transfer objects from one hand to another, enjoys banging objects together.

• 8 to 12 months: Releases toy or object, locates hands for play, eats with fingers, uses spoon with assistance, drinks from cup with assistance, holds crayon and makes marks on paper; 10 months, pincer grasp is present, able to pick up small objects like a raisin; 11 months, able to put objects into a container and enjoys removing them; 12 months, displays interest in building a tower of two blocks, but it often falls down.

• 12 to 15 months: Builds tower of 2 to 4 blocks, opens boxes, pokes finger in hole, turns pages of book, uses spoon with spilling.

• 15 to 24 months: Drinks from cup with one hand, uses spoon without spilling, empties jar of contents, draws vertical line, scribbles, builds tower

of 4 blocks.

• 2 years: Builds tower of 5 to 8 blocks, turns knob to open door, drinks from glass held in one hand, makes train of cubes by manipulating play materials.

• 3 and 4 years: Strings beads, builds tower of blocks, learns to use and masters use of scissors, copies a circle-and-cross figures, holds crayon with fingers, unbuttons buttons on side or front, laces shoes, brushes teeth, cuts out simple pictures.

• 5 and 6 years: Copies letters of alphabet and prints name, dresses self with assistance, uses hammer and nails, knows right from left hand, cuts and pastes well, may tie shoes, uses fork.

• 7, 8, and 9 years: Hand-eye coordination improves; enjoys video games; writes rather than prints words; may play musical instruments, sew, build models, work jigsaw puzzles; adds details to drawings and uses perspective in drawing, uses both hands independently.

• 10, 11, and 12 years: Uses increased detail in work, handwriting skill improves, more refinement to motor activities, gradual improvement to adult level.

LANGUAGE

• **O to 4 months:** Cries, whimpers; responds to sounds or activity; coos, gurgles, and babbles; smiles in response to adult sounds and makes sounds.

• 4 to 8 months: Laughs out loud, vocalizes, uses two syllable sounds like da da without meaning, imitates expressions, cries if scolded.

• 8 to 12 months: Responds to adult emotional tone, says one or two words, uses sounds to identify objects or persons, uses wide range of sounds, understands use of no, knows own name, communicates with others and self.

• 12 to 14 months: Uses jargon, names for familiar pictures or objects; points to desired object or vocalizes wants, knows at least 10 words or more; uses short phrases; points to body parts.

• 2 years: Uses about 300 words, uses pronouns, speaks 3 to 4 word sentences, enjoys stories, does not ask for help.

• 3 and 4 years: Uses about 900 to 1500 words; talks in sentences; asks questions consistently; states own name; talks whether someone present or not; uses plural form of words; repeats words and sentences at will; may omit prepositions, adverbs, adjectives in speech; asks how and why; boasts and tattles; tells a story; counts to at least 3, understands simple questions.

• 5 and 6 years: Identifies colors, uses 2,100 words, knows names of days of week, asks thoughtful questions, uses prepositions and conjunctions, uses complete sentences, shares experiences with others through language, expands vocabulary with exposure and stimulation, errors in sound disappear, begins to have a concept of abstract words.

• 7, 8, and 9 years: Increases use of words to express self, increases use of words for exchange and communication, considers what others say, uses all parts of speech.

• 10, 11, and 12 years: Uses 50,000 words, uses compound and complex sentences, understands abstract words.

PLAY AND SOCIALIZATION

• **O to 4 months:** Stares at environment, smiles indiscriminately or responsively, enjoys having others around, recognizes familiar faces, determines that face is unfamiliar and freezes gaze, establishes cycle for sleep and awake periods; 0 to 1 month, prefers to look at faces, at black and white geometric designs, able to follow objects in line of vision; 2 to 4 months, follows objects 180°, turns head to look for voices and sounds.

• 4 to 8 months: Self-centered, begins to be fearful of strangers; 4 to 6 months, watches the course of a falling object, responds readily to sounds, smiles at self in mirror, fascinated by own fingers and toes; 6 to 8 months, recognizes own name and responds by smiling when it is heard, seeks attention, imitates faces and sounds in play.

• 8 to 12 months: Plays simple peek-a-boo, prefers mother, cries when upset, becomes anxious if separated, recognizes family members' requests if one at a time, displays various emotions.

• 12 to 24 months: Plays pat-a-cake, is curious and gets into everything, has short attention span, enjoys solitary play or watching others play, has a favorite toy or object.

• 2 years: Unable to distinguish right from wrong, imitates parents and others, enjoys parallel play, wants things own way, refuses to share, is possessive, sees self as a separate person, rituals important, benefits from transitional objects such as teddy bear.

• 3 and 4 years: Able to share with peers and adults, interested in new activities and learning from them, may have an imaginary playmate, participates in imaginative play and imitation of adults.

• 5 and 6 years: Likes achieving, wants to accept responsibilities, has strong feeling for family and home, identifies with parent of same sex, participates in fair play and cooperation, shows off.

• 7, 8, and 9 years: Independently plays, able to reason and has a concept of right or wrong, likes rewards and praise, peer group gains in importance, short-lived interests, completes tasks.

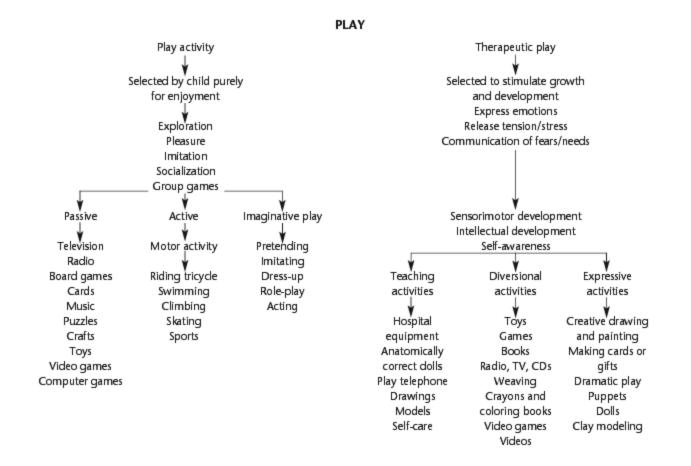
• 10, 11, and 12 years: Feels positive about self; is more tolerant; interested in rules and money; relates well with peers, friends, relatives; likes conversation, change, and variety in activities; avoids doing tasks; develops conscience. Enjoys sports, games.

PLAY

Play is described as the work of childhood. Children use play to learn about themselves and the world and also to cope with new or stressful events. Child development experts recognize play as a significant coping strategy for children. For example, children may use play as an outlet for self-expression, to manipulate experience, and to attempt to master the environment. Play provides the child with a measure of control over events and settings. Children's play also promotes social, cognitive, and physical development.

Illness, treatment, and hospitalization create emotional stress for children. Reactions may include crying, clinging to parents, loss of sleep, and regression. Structured and/or medical play has been shown to be therapeutic in helping children preserve usual coping strategies and maintain emotional health. Therapeutic play has been identified as an effective intervention to help children prepare for, cope with, assimilate, and master painful procedures and the stress of hospitalization. A significant nursing intervention is to provide the child with a pleasurable play experience at the onset of hospitalization, that may ease the emotional distress associated with invasive procedures or with the hospitalization process itself. The nurse bases the choice of play activity offered on the child's developmental level, play preferences, and therapeutic goals.

FLOW CHART FOR PLAY



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CHAPTER 1.1 - BASIC CARE PLAN: WELL CHILD

INTRODUCTION

Healthy children are assessed at regular intervals to monitor growth and development, prevent disease through immunization, promote wellness, and provide families with anticipatory guidance. The nursing care plan for a well child is based on a thorough nursing history, assessment, and review of medical and laboratory findings. The child's parent (or caretaker) is included in all aspects of the child's care. Specific client-related data should be inserted within parentheses and whenever possible.

NURSING DIAGNOSES

HEALTH-SEEKING BEHAVIORS: WELL-CHILD VISIT

Related to: Parent's belief in the benefits of health screening and health promotion for the child.

Defining Characteristics: Child is brought in for routinely scheduled well-child office visits (specify). Parent appears interested and asks appropriate questions related to the child's health and growth and development. (Specify, using quotes whenever possible.)

Goal: Parent will continue health-seeking behaviors.

Outcome Criteria

 \checkmark The parent keeps all scheduled well-child appointments.

 \checkmark The parent calls the health care provider for concerns related to the child's health and well-being.

NOC: Knowledge: Health Promotion

INTERVENTIONS Establish a comfortable environment for the child and parent: provide privacy, assume a position at the child's level without approaching too	RATIONALES Promoting comfort and a sense of safety for the child decreases the stress of health care visits.
suddenly, listen attentively, and allow adequate time to address the parent and child's concerns.	
Establish the reason for health care visit (specify, e.g., 6-month well- baby checkup; high school physical exam). Elicit and address any concerns the parent or child (if age appropriate) might have.	Provides the framework for the health care experience and encourages information-sharing and giving.
Assess the child's growth and physical well-being based on developmental level (specify, e.g., an infant may	The nurse's knowledge of growth and development allows the exam to be structured to cause the

be examined sitting in the parent's lap with auscultation the first technique. An adolescent may benefit from having the parent wait outside during the physical exam.)	least stress for the child.
Provide health teaching as appropriate during and after the exam.	Teaching helps the parent and child to maintain optimal health.
Evaluate the child's competence on several appropriate developmental milestones (specify which parameters are appropriate for individual child).	More than one measure is necessary to gain an accurate evaluation of development.
Provide the parent (and child if appropriate) with anticipatory guidance related to expected development in the near future (specify).	Anticipatory guidance helps the parent to support the child's development.
Offer praise to parent and child for attempts to maintain a healthy lifestyle, including keeping health care appointments.	Positive reinforcement may help maintain the desired behavior.
Provide written information about growth and development.	Written information can be read at leisure and provides reinforcement of teaching.
Encourage parent to call health care provider for concerns about the child's health and well-being. Provide appropriate phone numbers.	Encouragement helps the parent to seek information and care in a timely manner.
<pre>Make referrals as needed (specify, e.g., WIC, social services, etc.).</pre>	Describe rationale for specific referral.

NIC: Health Screening; Health Education

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Has the parent kept all scheduled well-child appointments?)

(Has the parent called the health care provider for concerns related to the child's health and well-being?)

(Revisions to care plan? D/C care plan? Continue care plan?)

READINESS FOR ENHANCED ORGANIZED INFANT BEHAVIOR

Related to: Increasing stability of autonomic, motor, and state responses to environmental cues.

Defining Characteristics: (Specify, e.g., parent reports that the infant has established a sleep/wake pattern; infant responds to visual and auditory cues; infant demonstrates ability to console self, etc.)

Goal: The infant will continue to adapt appropriately to environmental stimuli by (date/time to evaluate goal).

Outcome Criteria

 \checkmark Infant exhibits smooth movements (specify, e.g., hand-to-mouth, suck, swallow).

 $\sqrt{1}$ Infant exhibits organized behaviors (specify, e.g., maintains quiet alert states, engages in reciprocal interaction with parent; self-consoling, etc.)

NOC: Child Development

INTERVENTIONS

RATIONALES Assessment provides baseline

the parent-infant

relationship.

stressors.

Recognizing the infant's

Identifying infant behaviors

Promotes infant development

development and enhance

Interventions foster

Provides parents with

without excessive stress.

parent-infant relationship.

additional information to

foster infant development.

helps the parent to modify

individual behaviors enhances

information.

Assess parent(s)' understanding of infant's current behavioral states and cues (specify).

Provide parents with information about expected infant development (specify if verbal discussion, written information, or video will be used). Help parents to identify their infant's behavioral states and individual cues.

Assist parents to identify when the infant's behavior indicates stress caused by excess environmental stimuli (specify).

Encourage parents to decrease stimuli when infant appears overstimulated. Teach parents to provide developmental interventions for

their infant (specify interventions based on infant's age and ability). Provide parents with referrals or

additional information as indicated (specify for clients).

NIC: Infant Care

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does infant exhibit smooth movements? (Specify)

(Describe infant's behavior organization; specify as listed in outcome criteria)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Lack of completed immunizations.

Defining Characteristics: Infant/child has not received all immunizations against childhood illnesses (specify age and appropriate immunizations for age).

Goal: Infant/child will not experience infection with preventable childhood illnesses by (date/time to evaluate).

Outcome Criteria

 $\sqrt{1}$ Infant/child receives all immunizations appropriate for age (specify which immunizations and when they should be completed).

 $\sqrt{1}$ Infant/child does not experience infection with preventable childhood illnesses.

NOC: Immunization Behavior

INTERVENTIONS

RATIONALES

Assess infant/child's current immunization status. Teach parent about the benefits of childhood immunization against preventable illnesses. Provide written information about immunization. Administer immunizations as ordered by the caregiver (specify drug, dose, route, and timing) providing the least traumatic care (specify based on developmental level). Observe for side effects and teach parent to provide relief as ordered by caregiver (specify, e.g., Tylenol as ordered for discomfort). Teach parent (and child if ageappropriate) to practice good hygiene (specify, e.g., handwashing, bathing, kitchen hygiene, etc.). Encourage parent to provide optimal nutrition and a balance between rest and activity for the infant/ child (specify). Offer praise and encouragement to

parent and child for taking good

Provides baseline data about immunization needs. Informed parents are able to make good decisions for their child.

Specify action of particular agent in preventing infection. Relate principles of growth and development to method of giving immunization.

Specify side effects of particular agent and action of Tylenol or other relief measures.

Teaching empowers the parent and child to take responsibility for health. Specify how infection is prevented by specific teachings.

A well-nourished and rested infant/ child is less susceptible to infection and better able to respond effectively.

Positive reinforcement helps ensure that behavior will continue.

care of the child's health.

NIC: Immunization/Vaccination Administration

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Has infant/child received all immunizations appropriate for age? Specify)

(Has infant/child experienced infection with preventable childhood illnesses? Specify)

(Revisions to care plan? D/C care plan? Continue care plan?)

DELAYED GROWTH AND DEVELOPMENT

Related to: Separation from significant others (specify, parents, siblings, peers and/or primary caretaker).

Defining Characteristics: Ages 6 to 30 months (specify, crying, screaming, withdraws from others, inactive, sad, detachment behaviors, regressive behaviors); 3 to 6 yrs. (specify, temper tantrums, refusal to comply with hospital routine/treatments, crying, refusal to eat); 6 to 12 yrs. (specify, express feelings of loneliness, boredom, isolation, depression, worry about absence from school); 13 to 18 yrs. (specify, may react with dependency, uncooperativeness, withdrawal behaviors, fear of loss of peer status/acceptance at school).

Related to: Decreased or increased environmental stimulation.

Defining Characteristics: Inability to perform self-care or self-control activities appropriate for age, decreased responses, listlessness, flat affect; delay or difficulty in performing developmental tasks/skills (specify, motor, social or language) typical for age group.

Related to: Chronic illness or disability, repeated hospitalizations.

Defining Characteristics: Inability to perform gross and fine motor tasks appropriate to age, altered physical growth (specify).

Goal: Child will exhibit age-appropriate growth and development by (date/time to evaluate).

Outcome Criteria

 \checkmark Child exhibits age-appropriate growth and development activities (specify).

NOC: Child Development

INTERVENTIONS

RATIONALES

Provide or arrange for growth and development assessment with the administration of tools Identifies developmental level or any lag in development to assist in plan of care or therapy; such as Washington Guide, Denver Developmental Screening Test (DDST), Denver Developmental Screening Test Revised (DDST-R), Denver II, Revised Denver Prescreening Developmental Questionnaire (R-PDQ), Denver Articulation Screening Exam (DASE) (specify).

- Reassess developmental levels at intervals appropriate for illness or other problem (specify). Provide consistent caretaker and
- care.

Depending on age and abilities, encourage to participate in goalsetting decision-making, participation in care (specify).

Provide visual, auditory, tactile stimulation, including mobiles with or without color, music, toys, books, television, games or other age-related activities; hold child and rock or pat on back, talk to child.

Provide time for child, either quiet or talking, to play with other children, time for parents that remain in hospital to interact with child.

Provide developmentally appropriate activities based on child's agerelated abilities (specify).

Explore the family's and child's feelings regarding child's health status and required treatments.

Encourage independence and choices in as many areas as possible (i.e., dressing, feeding, type of foods/ drinks, or BandAids).

Encourage socialization (i.e., in the play room, with siblings, peers, phone calls, if possible).

Recognize and support ritualistic behaviors (especially in the young child).

Encourage mastery of self-care activities, required health care equipment, if appropriate. Instruct parents on growth and information should include ageexpected gross and fine motor development, language and social development, psychosocial and psychosexual development, interpersonal skills, cognitive and moral and spiritual development.

Provides evidence of progress to
 evaluate program to correct any
 growth and developmental deficit.
Promotes trust and progress in
 development.
Promotes independence needed for
 control and development.

Promotes stimulation needed to maintain developmental status.

Promotes independence and development or maintenance of motor skills to prevent regression.

To enhance child's adjustment to hospitalization and treatment and to enhance child's maximum growth and developmental abilities.

Promotes family communication and attitude of acceptance and adaptation to child's health status and abilities.

Fosters child's sense of control, adaptation, and developmental growth during their altered health state and hospitalization.

To foster child's ability to develop and maintain peer relationships.

Fosters child's need for autonomy.

Fosters child's need for initiative and purpose; fosters child's self-esteem. Provides information about age-

<pre>development for child's age (specify). Inform of age-related play and other activities that enhance growth and development and provide needed stimulation; include those that encourage gross and fine motor development, sensory and cognitive development, others as determined by testing and needs.</pre>	related growth and development to ensure realistic expectations. Provides guidance for proper, safe activities and stimulation to prevent frustration of child and to promote normal development.
Teach parents whether developmental and growth lag is the result of the child's illness (acute or chronic) or some other reason.	Promotes understanding and relief from anxiety and guilt.
Discuss test results with child and parents and possible plan to resolve any deficits, both short-term during hospitalization and long-term during convalescence.	Promotes understanding of special needs and formulation of goals and actions based on findings.
Initiate referral to child development expert if appropriate.	Provides source of assistance to ensure proper age-related development.

NIC: Developmental Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does child exhibit age-appropriate growth and developmental activities? Describe)

(Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 1.2 - HOSPITALIZED CHILD

INTRODUCTION

Hospitalization of the child, whether it involves a short-term hospital admission, surgery, a follow-up evaluation, or repeated hospitalizations for a chronic illness or episode, creates a crisis for the child and family. Responses to hospitalization are related to the developmental level of the child but generally include fear of separation, loss of control, injury, and pain. The ease of transition from home to the hospital depends on how well the child has been prepared for it and how the child's physical and emotional needs have been met. Supporting the family, providing them with information, and encouraging their participation in the child's care contributes to the adjustment and well-being of all concerned.

COMMON NURSING DIAGNOSES

See DISTURBED SLEEP PATTERN

Related to: Physiologic factors related to illness and psychological stress, external factors of environmental changes.

Defining Characteristics: Interrupted sleep, irritability, restlessness, lethargy, disorientation, fatigue, pain, separation anxiety, side effects of medication (nausea, vomiting, diarrhea) (specify for child).

See IMPAIRED PHYSICAL MOBILITY

Related to: Pain and discomfort; neuro or musculoskeletal impairment (specify).

Defining Characteristics: Imposed restrictions of movement or activity, imposed bed rest, limited strength, endurance, weakness, fatigue, drainage tubes and IV catheters; disturbances in gait, vision, equilibrium (specify).

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Loss of appetite; lack of interest in food; alteration in taste; inability to ingest, digest or absorb nutrients; nausea; vomiting; diarrhea; constipation; abdominal pain; oral ulcers (specify).

Defining Characteristics: Weakness, fatigue, anxiety, anorexia, illness, lack of interest in eating (specify behavior).

See DELAYED GROWTH AND DEVELOPMENT

Related to: Separation from significant others; environmental and stimulation deficiencies; effects of repeated hospitalizations; social isolation; sensory and/or motor delays (specify).

Defining Characteristics: (Specify, e.g., inability to perform self-care or self-control activities appropriate for age; regressive behavior; fear of unfamiliar environment and treatments; feelings of inferiority; low self-esteem, or alterations to body image.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Change in health status; change in environment; threat to self-concept; situational crisis (specify).

Defining Characteristics: Increased apprehension; fear; helplessness; uncertainty; distress over hospitalization; restlessness; expressed concern over procedures, pain, loss of control, separation from significant others; crying; clinging; refusal to interact with staff, changes in VS, financial stresses caused by required absence from employment (specify child's behavior).

Goal: Child and family will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Reduced anxiety expressed by child and family.

 $\sqrt{}$ (Specify behaviors to look for: e.g., child is not crying or clinging, facial features are relaxed, parents verbalize understanding of procedures and plan of care, etc.)

NOC: Anxiety Control

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INTERVENTIONS	RATIONALES
Assess child's and parents' level of anxiety, child's developmental level, understanding of illness, and reason for hospitalization, and responses to this and previous hospitalizations during admission.	Provides information about sources and level of anxiety related to illness and hospitalization; sources of anxiety and responses vary with age of child and include separation, pain and bodily injury, loss of control, enforced dependence, fear of unknown, fear of equipment, unfamiliar environment and routines, guilt, fear and concern for child's recovery, feelings of powerlessness.
Assess social and emotional history of child and family for strengths and successful coping ability.	Provides information about strengths and about weaknesses to draw upon to cope with hospitalization.
<pre>Allow expression of feelings and concerns about illness and procedures and listen individually to child and parents. Provide a calm, accepting environment and avoid rushing through interactions and care. Provide orientation to hospital environment and room, routines, meal and play time, introduction to staff members, forms to sign and hospital</pre>	<pre>Provides opportunity to vent feelings and fears to reduce anxiety and promote adaptation to hospitalization. Assists child and family in establishing trust and obtaining emotional stability. Familiarizes child and family with environment, promotes secure feeling, and reduces fear of unknown.</pre>
policies.	

Have same personnel following written care plan, care for child; schedule personal contact with child within	Promotes continuity and consistency of care to support trusting relationship.
<pre>work day (specify). Encourage involvement of child and parents in planning and interventions of care; allow parents to remain with child; allow to hold and cuddle the child. Allow child and parents to incorporate home routines as much as possible; bring toys, tapes, photographs and favorite foods from home as</pre>	Promotes participation in and adaptation to hospitalization, reduces anxiety; allows demonstration of love and affection for child. Promotes security and reduces anxiety associated with new experiences.
appropriate (specify). Maintain a quiet environment, control	Decreases stimuli that increase
visitors and interactions. Allow child to play out feelings. Accept feelings and responses	anxiety. Permits child to express feelings without fear of punishment.
expressed by the child.	without fear of punishment.
Approach child in a positive way; use child's proper name; avoid communicating, either verbally or nonverbally, any rejection, judgments, or negativism.	Promotes rapport and trust and maintains identity.
Identify and recognize regressive behavior as a part of the illness and assist child in dealing with dependency associated with the hospitalization.	Allows for behaviors common to hospitalizations and loss of control.
Provide support to child during any procedures or distressing features associated with care, including intrusive procedures, exposure of body parts, need for personal privacy and privacy of others.	Reduces anxiety and fear caused by possible bodily injury.
Inform and explain all treatments and procedures in simple, understandable language to child and parents according to their intellectual level and age; pace information according to child/parental needs.	Provides easily understood information, which decreases anxiety.
Inform parents and child that behavior caused by anxiety and fear is normal and expected.	Prevents feeling of inadequacy and fear of punishment.
Use therapeutic play to explain and prepare child for procedures; repeat any teaching as needed. If surgery planned (specify) instruct in preoperative and postoperative care, surgical procedure to be done, reason for surgery, and length of hospitalization;	Permits child to understand and become familiar with articles used for care or procedure. Prepares child for surgical intervention with minimal anxiety.

answer questions about surgery.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did child or family express decreased anxiety? Use quotes. Describe behavioral change associated with decreased anxiety, e.g., child is no longer clinging to parent.)

(Revisions to care plan? D/C care plan? Continue care plan?)

SELF-CARE DEFICIT, BATHING/HYGIENE, DRESSING/GROOMING, FEEDING, TOILETING

Related to: Impaired ability to perform ADL; pain and discomfort (specify).

Defining Characteristics: Inability to wash body, take off or put on clothing, feed self, positioning or mechanical restrictions, weakness, fatigue, imposed bed rest, inability to carry out toileting with use of bedpan or go to bathroom (specify for child).

Goal: Child will demonstrate increased ability to care for self by (date/time to evaluate).

Outcome Criteria

 \sqrt{M} Maximum self-care capability with or without use of aids (specify for child).

NOC: Self-Care: Activities of Daily Living

INTERVENTIONS

RATIONALES

Assess physical tolerance and abilities to perform ADL, and play activities and restrictions imposed by the illness and medical protocol.	Provides information about amount of energy and effect of illness on activity level.
Anticipate child's needs for toileting, feeding, brushing teeth, bathing and other care if unable to manage on own; allow child to do as much as possible (specify).	Prevents embarrassing experiences with toileting and maintains comfort with personal cleanliness and appearance.
Provide personal care for infant and small child; assist child and Adjust times and methods to fit home routine.	Provides needed assistance where using patterns and articles that encourage parent to assist child. child is accustomed to using and doing.
Praise child for participation in own care according to age,	Promotes self-esteem and independence.

developmental level, and energy (specify).	
Provide assistive aids or devices to perform ADL, allow choices when possible (specify for child).	Assists child in performing self-care for ADL.
Balance activities with rest as needed; place needed articles and call light within reach if appropriate.	Prevents fatigue by conserving energy and promoting rest.
Instruct child in toileting, feeding, bathing, hygiene, dressing while in hospital environment and inform of differences from home care and methods as needed (specify).	Promotes performance of ADL skills already known by child.
Inform to rest when tired and to request quiet times.	Ensures proper rest and prevents fatigue.
Inform parents to assist child in ADL but to allow child as much independence as condition permits; inform parents that a place is provided for their personal needs in order to allow them to remain with the child.	Promotes independence and some control by the child without separating child from parents.
Instruct parents to interpret child's needs if child too young to talk.	Provides anticipatory care for child.

NIC: Self-Care Assistance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe child's ability to attain behaviors specified under outcome criteria.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT DIVERSIONAL ACTIVITY

Related to: Environmental lack of diversion, long-term hospitalization.

Defining Characteristics: Boredom, desire for something to do because usual hobbies and activities cannot be done in hospital (specify, use quotes).

Goal: Child will engage in diversional activity by (date/time to evaluate).

Outcome Criteria

 \sqrt{P} Participation in age-appropriate activities within limitations imposed by illness (specify activity).

NOC: *Play Participation*

INTERVENTIONS

RATIONALES

INTERVENTIONS	RATION
Assess type of activities allowed	Provide
and desired and amount of motor	type
activity needed; check medical	to su
protocol for bed rest or	
limitations imposed by illness.	
Show playroom to child and introduce	Provide
child and family to other children	envi
and families with similar illness	
(specify).	D
Place child in a room with another	Promote
child of same age if possible	dive
(specify).	hosp:
Schedule care and treatments to	Provide and d
allow for play activities. Provide age-appropriate play	Prevent
activities according to amount of	from
energy of child and activity	and :
allowed, including quiet play with	quiet
games, television, reading, soft	quici
toys, favorite toys.	
Encourage family to play with child	Promote
or interact with child.	
Provide play activities that include	Promote
educational needs for school-age	inclu
child; bring school-work from home	
if appropriate (specify).	
Suggest parents bring child's	Promote
favorite toys or articles for	activ
play.	
Teach parents and child of need to	Prevent
monitor activities and rest	phase
although still allowing for play	
and interactions with others.	
Consult a play therapist for	Promote
assistance in planning activities	dive
and assessing child's play needs	
as needed.	

vides information about of activities and play suggest.

les a familiar ronment for child.

es interaction and ersion while italized. les opportunity for play diversion. ts fatigue resulting overactivity while ill in need of rest and

- et.
- es diversion for child.

es therapy that udes educational needs.

- es diversionary vity.
- ts fatigue during acute se of illness.

es age-appropriate ersionary activities.

NIC: Activity Therapy

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did child participate in diversional activity? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

POWERLESSNESS

Related to: Health care environment, illness-related regimen.

Defining Characteristics: Expression of loss of control over situation, expression or behavior indicating dissatisfaction with inability to perform activities and dependence on others, reluctance to express true feelings, fear of alienation from others in the hospital environment (specify).

Goal: Client will experience less powerlessness by (date/time to evaluate).

Outcome Criteria

 \checkmark Gains sense of control over situation

 $\sqrt{}$ (Specify how child and/or parent participates in plan of care: e.g., goal-setting, scheduling of treatments.)

 $\sqrt{}$ (Specify how child or parent verbalize increased sense of control—use quotes.)

NOC: Family Participation in Professional Care

INTERVENTIONS

RATIONALES

Encourage parents and child to verbalize feelings in an accepting environment.	Allows for venting of feelings about loss of control and frustrations over loss of ability to perform activities.
Allow for input from child and parents in care goals, care plan, and scheduling of activities, and integrate this input into routines as much as possible.	Allows for as much control as possible for child and family.
Encourage parents to participate in child's care as much as desired; and to visit or remains with child continuously.	Promotes support of child and allows family some control over the situation.
Provide encouragement and praise to child and parents for their participation; encourage and defend expression of their true feelings.	Promotes positive feedback and reduces fear of rejection by staff because of their behavior.
Allow child to perform simple tasks in hospital unit and for own care, such as pouring own water and marking amounts on record at bedside.	Promotes independence and control of the environment.
Inform parents and child of tasks that they can perform in care plan (specify).	Accommodates need for sense of control.

NIC: Security Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Have child/parents participated in care? Specify how. Use quotes as applicable.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR TRAUMA

Related to: Developmental age, deficient knowledge and cognitive immaturity predisposing the child to safety hazards in the environment.

Defining Characteristics: Developmental age, developmental delays, disturbances in gait, vision, hearing, perceptual or cognitive functioning (specify).

Goal: Child will not experience any trauma by (date/time to evaluate).

Outcome Criteria

 \checkmark Child engages in appropriate play (specify) without injury.

 \checkmark Parents verbalize safety considerations related to toys/games (specify according to developmental level).

NOC: Knowledge: Personal Safety

INTERVENTIONS

RATIONALES

INIDICUDITIOND	10111
Assess age of child and reason for	Pro
particular selection of type and	a
article of play, and intended purpose	b
of play (enjoyment, development,	a
therapy).	С
	t

Select safe toys appropriate for age and amount of activity allowed (active or passive plays) and that suit the skills and interest of covides information needed to select appropriate toy or activity for play based on age: infants grasp and hold articles and stuffed toys; young child plays with replicas of adult tools and other toys, plays pretend, and later moves from toys to games, hobbies, sports; older child continues with games and sports and begins to daydream; play provides fun, diversion, and learning about procedures for the child who is hospitalized.

Provides guidelines for quiet play or play that involves motor activity.

the child. Encourage play and allow parents to Promotes learning and skill bring favorite toy, game or other development, and facilitates play materials from home. expression of feelings. In a quiet environment, plan and Promotes therapeutic play with a implement an age-appropriate play selection of toys and articles that activity to prepare the child for all include dolls or puppets (nurse, invasive procedures, to observe doctor, child, family members); child's behavior, or to allow child hospital supplies (syringe, to reveal fears and concerns with or dressings, tape, tubes); paper, without someone in attendance crayons, and paints; stuffed toys, (specify). toy telephone; prepares the child emotionally and cognitively for invasive procedures; fosters appropriate coping strategies. Remove all unsafe, sharp, broken toys, Prevents trauma or injury to the toys with small parts that can be child. swallowed, toys inappropriate for age (specify). Allow child to communicate type of toy Promotes independence and control over desired and to assist in the play situation. selection of toys and play activities. Teach parents to select toys, play Promotes safe play for the child. equipment, and supplies that are labeled for intended age group; nontoxic and flame resistant with directions for use; that are durable and do not have sharp edges or points; that do not have small parts that can be swallowed; that do not contain any parts to be ejected; and that are not broken, rusted, or weak and need repairs. Teach parents to store play materials Prevents accidents caused by toys in meant for older children away from pathways or by toys meant for older, young child to provide a safe place more mature play. for toys, to discard or repair broken toys. Provides the enjoyment of active or Teach parent(s) to select play activity based on child's energy and tolerance passive play that is geared to level during an illness, and to child's condition. evaluate toys given as gifts to the child.

NIC: Parent Education: Child-Rearing Family

Evaluation

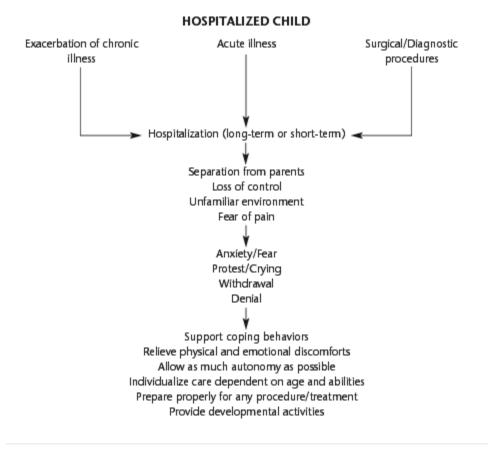
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(List appropriate play child engaged in without injury. Provide quotes from parents verbalization of safety considerations.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HOSPITALIZED CHILD



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CHAPTER 1.3 - CHILD ABUSE

INTRODUCTION

The term child abuse is used to describe any neglect or mistreatment of infants or children including infliction of emotional pain, physical injury, or sexual exploitation. Neglect or abuse is most often inflicted by the child's biologic parents. Others who have been implicated include foster parents, babysitters, boyfriends, friends, and daycare workers. Nurses are legally and morally responsible to identify children who may be maltreated and to report findings to protect the child from further abuse.

Neglect is the most common form of abuse and may include deprivation of basic physical or emotional needs: food, clothing, shelter, health care, education, affection, love, and nurturing. Emotional abuse stems from rejection, isolation, and/or terrorizing the child. Physical abuse may result in burns, bruises, fractures, lacerations, or poisoning. Infants may suffer from "shaken baby syndrome" with severe or fatal neurologic injuries caused by violent shaking of the infant. Signs of shaken baby syndrome include retinal and subarachnoid hemorrhage. Signs of sexual abuse include bruising or bleeding of the anus or genitals, genital discharge, odor, severe itching or pain, and sexually transmitted diseases. A discrepancy between the nature of the child's injuries and the reported cause of injury is a frequent clue that abuse has occurred.

MEDICAL CARE

Complete Blood Count (CBC): reveals changes resulting from infection (increased WBC), blood loss (decreased RBC, Hgb).

Urinalysis: reveals blood, pus in urinary tract.

Vaginal/Anal Cultures: reveal sexually-transmitted disease.

X-ray: child abuse long bone series of X-rays are required to detect evidence of or to rule out healed fractures/current fractures.

C-scan: to rule out central nervous system damage caused by shaken baby syndrome.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify, e.g., withholding of food by parent/caretaker, weight loss, malnutrition, lack of subcutaneous fat, failure to thrive, provides inadequate amount of food; knowledge of deficit regarding appropriate food preparations [i.e., cleaning bottles].)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factor of trauma.

Defining Characteristics: (Specify, e.g., lacerations, burns, abrasions, skin trauma in different stages of healing, unclean skin, teeth, hair.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Inadequate caretaking, indifference, environmental and stimulation deficiencies.

Defining Characteristics: (Specify, e.g., delay or difficulty in performing skills [motor, social, or expressive] typical of age group, altered physical growth, inability to perform self-care or self-control activities appropriate for age, flat affect, decreased responses, withdrawal, antisocial behavior, fearfulness, poor relationships with peers, regressive behavior, acting out behavior.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Threat to self-concept, change in health status, change in interaction patterns, situational crisis.

Defining Characteristics: Increased apprehension and uncertainty, fearfulness, feeling of powerlessness, fear of consequences, repeated episodes of maltreatment, mistrust, trembling, quivering voice, poor eye contact, lacks appropriate pain response, frozen watchfulness, developmental delays/regressive behaviors (specify).

Goal: Child will experience less anxiety by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify measurable criteria, e.g., child makes eye contact, has relaxed facial features, reports decreased anxiety if age-appropriate.)

NOC: Coping

INTERVENTIONS

- Assess level of anxiety and fear in child and how it is manifested; identify the source of anxiety and observe reactions to staff and parents at each encounter.
- Demonstrate affection and acceptance of the child even if not returned or ignored; avoid reinforcing any negative behavior.
- Provide a play program with other children; set aside time to be alone with child or quiet time for child as well; praise child or reward with a special treat when appropriate (specify).
- Provide consistent staffing for child, preferably those who seem to relate well to child.
- Allow expression of concerns and fears of child about treatments, environment; allow questions

RATIONALES

- Provides information about the source and level of anxiety and what might relieve it and basis to judge improvement.
- Promotes trust of staff and positive behavior of the child.
- Modifies negative behavior by promoting interactions with others and rewarding desired behaviors; promotes self-esteem.
- Promotes familiarity and trusting relationship with staff.
- Provides opportunity to vent feelings, which reduces anxiety.

and provide honest explanations and communication at child's age level.	
Provide treatment of injuries; avoid treating child as a victim, asking too many questions, or forcing any discussion.	Prevents increased anxiety and stress in child by discussion of abuse.
Explain all treatments and procedures to be done and the purpose for them and that someone will accompany them to a different department if needed (specify).	Provides preparation and information that will assist in preventing fear or anxiety.
Use therapeutic play kit to instruct child in any procedure to be done (dolls, syringe, tubing, dressing, other articles, specify).	Reduces anxiety by familiarizing child with what to expect to reduce anxiety.
Refer for counseling services for the child as indicated.	Reduces anxiety and supports child in dealing with abuse and negative behavior.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about outcome criteria, e.g., does child make eye contact? Are facial features relaxed, does child report feeling "calmer," use quotes if possible.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED PARENTING

Related to: (Specify: unmet social and emotional maturation needs of parental figures, ineffective role modeling, lack of knowledge, situational crisis or incident.)

Defining Characteristics: (Specify: lack of parental attachment behaviors, verbalization of resentment toward child and of role inadequacy, inattention to needs of child, noncompliance with health practices and medical care, inappropriate discipline practices, frequent accidents and illness of child, growth and development lag in child, history of child abuse or abandonment, multiple caretakers without regard for needs of child, evidence of physical and psychological trauma, actual abandonment of child.)

Goal: Parents will exhibit improved parenting skills by (date/time to evaluate).

Outcome Criteria

 \checkmark Demonstration of appropriate parenting behaviors.

 \checkmark Maintenance of safe environment for child.

 \checkmark Establishment of positive relationship with child and realistic expectations for self and child.

 \checkmark Acceptance of support for achievement of desirable parenting skills.

NOC: Parenting

INTERVENTIONS

Assess parents for achievement of developmental tasks of self and understanding of child's growth and development; how they are bonded and attached to child; how they interpret and respond to child; how they accept and support child; how they meet child's social, psycho-logical and physical needs.

Provide a child nurturing role model for parents to emulate.

Praise parents for their participation in child's care, tell them that they are giving good care to child.

Include parents in planning care and setting goals.

Provide an opportunity for parents to express their feelings, personal needs, and goals; avoid making judgmental remarks or comparing them to other parents.

- Teach parents developmental tasks for child and parents, difference in developmental level between child and parents, and appropriate tasks for age levels.
- Discuss with parents methods to reduce conflict, to be consistent in approach to child's behavior and needs, to avoid siding with child or other parent.
- Instruct parents to maintain their own health by getting adequate rest, nutrition, and exercise; and to participate in leisure activities and make social contacts.
- Refer to community agencies that offer parenting classes and support groups.
- Initiate referrals to social services, parenting classes, or counseling as appropriate. Inform parents that

RATIONALES

Provides information about parentchild relationship and parenting styles that may lead to child abuse; identifies parents at risk for violence or other abusive behavior.

- Promotes development of parenting skills by imitation.
- Reinforces positive parenting behaviors and increases feeling of adequacy.

Promotes participation of parents in meeting child's needs. Supports parents in meeting their

own needs.

Provides information that assists parents in responding realistically and appropriately to child's needs at different age levels. Promotes a more positive child-

parent relationship.

Provides information on importance of parents meeting their own needs to enable them to better care for and cope with their children.

- Provides education in parenting skills.
- Provides options if parenting is unsatisfactory or inadequate.

child protection services have been contacted to investigate the child's health status and safety; keep the parents informed of the child's health status (unless or until custody of the child is removed from the parents.

NIC: Parent Education: Child-Rearing Family

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about outcome criteria, e.g., parent attends to child's crying; feeds child; plays game with child; attends parenting classes or self-help groups; verbalizes child's developmental needs, etc., use quotes if possible.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR TRAUMA

Related to: Characteristics of child, caregivers, environment.

Defining Characteristics: (Specify: sexual assault of child, evidence of physical abuse of child, history of abuse of abuser, social isolation of family, low self-esteem of caretaker, inadequate support systems, violence against other members of the family.)

Goal: Child will not experience trauma by (date/time to evaluate).

Outcome Criteria

 \checkmark Absence of violence or maltreatment of the child by parents or other offenders.

NOC: Risk Detection

INTERVENTIONS

RATIONALES

Assess the abuser for violent behavior or other abusive patterns, use of alcohol or drugs, or other psychosocial problems.	Provides information to determine warning signs of child abuse.
Assess behavior of parents toward child, including responses to the child's behavior, ability to comfort the child, feelings and perceptions toward the child, expectations for the child, over-protective or concern for the	Reveals characteristics that may indicate risk for abuse.

child.

- Communicate information and needs of child to those on the abuse team (or to new caretakers if child being placed with a foster parent or someone other than parents); provide written instruction for care and child's needs (specify).
- Maintain factual and objective documentation of all observations, including: child's physical condition, child's behavioral response to parents, health care workers, other visitors, parent's response to child, and interviews with family members.
- Inform parents of follow-up care and needs of child, need to evaluate child's progress.
- Instruct parents in identifying events that lead to child abuse and in methods to deal with behavior without harming the child.
- Inform of Parents Anonymous and other child protective groups to contact for assistance.

Inform parents of child's placement in a foster home, allow them to meet and speak to new caretaker. Initiate referral to social worker,

public health nurse, psychological counselor before discharge to home (specify).

Provides care plan for child based on court decision to caretakers working with the family based on court decision for child's care.

- Provides information that may be used in legal action regarding abuse.
- Promotes emphasis on child's care and prevention of recurrence of abuse. Prevents further abusive behavior
- directed at the child.
- Provides self-help group activities, information, and support based on type of abuse and parental needs. Prepares parents for court order of alternate placement to ensure a safe environment. Provides support to child and family, and monitors behaviors following discharge.

NIC: Risk Identification

Evaluation

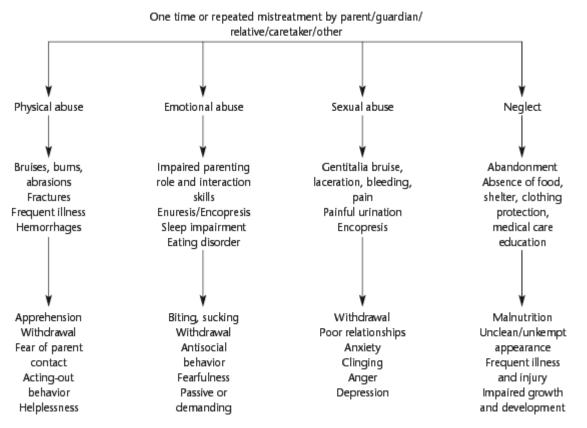
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Has the child suffered maltreatment or violence? Provide specifics if indicated.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CHILD ABUSE



CHILD ABUSE

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CHAPTER 1.4 - DYING CHILD

INTRODUCTION

Care of the dying child includes the physical and emotional interventions necessary to support the totally dependent child and grieving family. Nursing considerations involve the dissemination of information to the child, whose perceptions of death and responses to death and dying are age-related, and family with sensitivity, caring, and honesty. The nurse also helps the child move through the stages of awareness and acceptance, and helps the family move through the stages of grieving. An additional role of the pediatric nurse, when caring for dying children, is to direct the child and family to appropriate age-related information about death and dying.

MEDICAL CARE

Medications that promote comfort, prevent/manage pain, rest and proper body functions specific to the child's needs.

COMMON NURSING DIAGNOSES

See DISTURBED SLEEP PATTERN

Related to: Illness and stressors, side effects of medications.

Defining Characteristics: (Specify: fatigue, lethargy, irritability, restlessness, pain, psychological stress [anxiety, fear], nausea and vomiting, increased voiding patterns.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Pain and discomfort, side effects of medications.

Defining Characteristics: (Specify: weakness, inability to purposefully move, fatigue, limited strength, changes in consciousness, neuropathy, foot drop, amputation, gait disturbances; muscle wasting; contractures.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Loss of appetite, fatigue, oral ulcers, (specify).

Defining Characteristics: (Specify: weakness, anorexia, poor feeding, lack of interest in food, anorexia-cachexia syndrome, nausea and vomiting, chronic constipation or diarrhea; dryness and cracking of lips; alterations in taste.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Immobilization, side effects of medications; invasive procedures/IV infiltration; radiation treatments (specify).

Defining Characteristics: (Specify: redness, disruption of skin surface.)

See DISTURBED THOUGHT PROCESSES

Related to: Physiologic changes, side effects of medication (specify).

Defining Characteristics: (Describe: disorientation, changes in consciousness, fatigue, hallucinations, mood changes.)

See INEFFECTIVE AIRWAY CLEARANCE

Related to: (Specify) decreased energy and fatigue, tracheobronchial secretions, oral ulcers; decreased gag reflex.

Defining Characteristics: (Describe: increasing secretions, changes in respiratory rate or depth [stridor, irregularity], inability to cough and remove secretions, shortness of breath.)

See CONSTIPATION

Related to: Less than adequate physical activity and intake, side effects of medications, food allergy, secondary to disease process (specify).

Defining Characteristics: (Specify: frequency less than usual pattern, hard-formed stool, decreased bowel sounds, abdominal pain, firm/hard abdomen; fecal impaction.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Biologic, physical, psychological injuring agents (specify).

Defining Characteristics: (Specify, e.g., communication [verbal or coded] of pain descriptors, guarding, protective behavior, facial mask of pain, crying, moaning, withdrawal, changes in VS, irritability, restlessness, age-related expression of pain behaviors, facial grimacing, tension or flexion of muscles.)

Goal: Child will experience less pain by (date/time to evaluate).

Outcome Criteria

 \checkmark Child verbalizes decreased pain (use a pain scale appropriate for age).

 \checkmark VS return to baseline (provide range).

 \checkmark Child appears relaxed and is not crying, grimacing, moaning.

NOC: Pain Control

INTERVENTIONS Assess severity of pain, fear of receiving pain medication, anxiety

RATIONALES Provides information as a basis for analgesic administration. and coping mechanisms associated with pain, ability to rest and sleep (specify frequency and pain scale used).

Administer analgesic intermittently or continuously as ordered, depending on pain severity, and administer before any painful procedure or care is performed(specify drugs, route, times).

Teach child and parents of route of medication administration and effect to expect; that pain will be assessed continuously and medication adjusted as needed to control pain.

Provide position changes as tolerated, use pillows to support position, move slowly with gentle handling, give backrub.

Provide companionship for child, familiar toys (specify).

Support coping mechanisms of child and family and adjust analgesic accordingly, with input from child, parents, and physician.

Dim lights, avoid noise, maintain clean, comfortable bed with loose sheets and clothing, disturb for care only when needed to promote comfort.

Provide nonpharmacologic pain management strategies: soothing baths; massage therapy to painful areas; education on possible (and encourage parent/child to use) distraction techniques (i.e., music, aroma, humor, reading, journal writing, art work, pets, prayer, hypnosis, relaxation techniques. Specify).

Discuss with child and parents that fear of pain is common and that it is all right to express fear and feelings about pain and its control.

Teach parents and child that only palliative care and treatments will be administered.

NIC: Medication Management

Evaluation

3 of 11

Developmentally-based pain scales provide accurate assessment of child's discomfort.

Provides coverage of pain medications to ensure freedom from any type of pain and discomfort including administration of analgesic for prompt relief if given intermittently.

Provides assurance that pain will be controlled continuously whether or not child is able to express pain.

Reduces pain by nonpharmacologic measures.

Reduces fear and supports comfort of child.

Promotes child's comfort, supports coping abilities, and includes parents and child in decision making regarding care. Provides environment free of

stimuli that increases anxiety and pain.

Reduces pain perceptions and may foster a sense of control.

Reduces anxiety by recognizing fear of pain and encouraging to vent feelings and concerns about methods of control. Reduces anxiety and stress caused by anticipation of painful interventions. (Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data on pain scale rating, vital signs, muscle tension, and behavior such as crying, grimacing, or moaning.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANTICIPATORY GRIEVING

Related to: Potential loss of a child.

Defining Characteristics: (Specify: expression of distress at potential loss of child, denial of loss, guilt, anger, sorrow, choked feelings, change in need fulfillment, crying, self-blame, shock and disbelief, overprotectiveness, loss of hope and depression, withdrawal and avoidance of ill child.)

Goal: Clients will begin the grief process by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ Child, parents, and family are able to verbalize feelings about their grief in a culturally relevant manner.

 \checkmark Clients are able to share their grief with each other.

NOC: Family Coping

INTERVENTIONS

	-
Assess stage of grief process,]
problems encountered, feelings	
regarding terminal nature of illness	
and potential loss of child.	
Provide emotional and spiritual]
comfort in an accepting environment,	
and avoid conversations that cause	
guilt or anger.	

Provide opportunities for family to express feelings and respond to child commensurate with stage of grieving.

Allow parents and family members to be with child as much as they feel a need to, and help them understand the child's behavior and needs.

Assist child and family in identifying and use effective coping mechanisms and in under-standing situation over which they have no control.

RATIONALES

RAIIONALES
Provides information about need
for grieving, which varies with
individual members of a family
when child's death is expected.
Provides for emotional need of
parents and family and helps
them to cope with dying child
without adding stressors that
are difficult to resolve.
Promotes progression through
grieving and ability to express
desires for themselves and their
child.
Promotes feeling that they are
helping and supporting their
child.
Promotes effective coping that is
positive for the family.

Provide privacy when needed, while being available to the family. Arrange for clergy, social services,

hospice care, or return to home for dying as appropriate; support choices made by the family (specify).

Encourage parents to express their thoughts and feelings about the possible death of their child; to share memories of their child's life; to create memories (now, if possible); to take family pictures, and create a memory box of their child's memory.

Encourage parents to be involved with child's care (i.e., procedures, how to help with nausea, pain control). Reassure child, parents, and family that their grief response is normal.

Educate parents regarding child's developmental understanding of death; educate and encourage parents to utilize children's books to aid in a discussion about the child's understanding/fears of death.

Inform (child, if appropriate)
parents, and family of stages of
grieving and acceptable behaviors
during the grief process.

Provide information about child's condition, including appearance of the child, and reactions to expect.

Instruct parents in care and procedures they want to participate in and in those they will carry out if the child is taken home to die; suggest resources to contact for assistance.

Encourage family to ask questions and to be honest about their feelings and acceptance of information about death and dying.

Teach family to maintain own needs and health during this difficult time.

NIC: Grief-Work Facilitation

Evaluation

5 of 11

Promotes a helping relationship with the family. Provides for and assists with alternative care and preferences for that care.

Promotes parent coping, acceptance of grief process, and may minimize sense of guilt.

Reduces parent feelings of powerlessness and helplessness.

Promotes understanding of grief
 reaction and may enhance coping
 abilities.
Promotes family communication;
 promotes family coping

abilities.

Promotes understanding of feeling and behaviors manifested by the grieving process.

Allows parents to follow course of terminal condition and change to expect.

Involves parents involvement in child's care and allows them to share their sadness with child.

Promotes honest and realistic view of situation to enhance grieving.

Allows family to better cope with child's needs if own needs are fulfilled, since terminal period may be prolonged. (Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify, e.g., parents and child are able to verbalize the grief process, use quotes; parents and child identify coping mechanisms to assist with grief work (specify); parents and child make decisions regarding care, death, and funeral.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Specify: diagnosis, tests, treatments, pain, side effects of medication and prognosis.

Defining Characteristics: (Specify, e.g., states: fear of death, loss of control, loneliness; increased feelings of helplessness and hopelessness; poor prognosis of terminal illness.)

Goal: Client will experience lessened anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Specify, e.g., child and parents verbalize decreased anxiety.

 \checkmark Child and parents identify at least two coping mechanisms for anxiety.

NOC: Anxiety Control

INTERVENTIONS

- Assess anxiety level, fears and concerns, ability to express needs, and how anxiety is manifested.
- Ask clients to rank their anxiety as mild, moderate, severe, or incapacitating.
- Assist child and family to identify at least two coping mechanisms to use for coping with anxiety (specify suggestions such as music, exercise, talking to spiritual advisor, use of humor).
- Allow family friend to stay with child or remain with child during stressful periods if family not able to be there.
- Allow expressions of fears and concerns about terminal stage of illness, answer all questions honestly based on what family has

RATIONALES

- Reveals information needed for interventions to relieve anxiety and increased comfort. Ranking allows assessment of improved or worsening levels of anxiety. Coping mechanisms help relieve the stress of anxiety. Humor is not always out of place and may be
- helpful to diffuse tension if judiciously used.
- Promotes comfort of child and provides support during anxious and fearful times.
- Provides opportunity to vent feelings and fears to reduce anxiety.

been told about prognosis.

- Provide appropriate pain control and preparation prior to invasive procedures (specify, i.e., application of EMLA cream before bone marrow aspiration, or before restarting IV sites).
- Provide calm reassurance and kindness, be available to child at all times as needed for support. Involve child and parents in as much
- planning and care as possible without forcing participation. Inform child and parents of all
- anticipated care and activities.
- Inform family members, with honesty and openness, of physical changes in child as death nears.
- Reassure child and parents that they are not to blame for illness and its consequences.
- Encourage parents to talk to the child and sit or lie near the child as desired.
- Provide parents and family members telephone numbers and methods of acquiring information about the child.

- Promotes comfort and minimizes emotional distress related to invasive procedures (action of EMLA).
- Promotes comfort and love of child to reduce anxiety.
- Promotes interactions and attitude of caring within family.
- Promotes understanding of physical needs of dying child, limiting activities to those that are essential.
- Prepares them for the changes and assists in the recognition of impending death.
- Reduces fear and guilt caused by terminal nature of the illness.
- Reduces possibility of additional stress for child; reduces child's fear of being alone. Provides a source of communication about the child's condition.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify, e.g., are parents and child able to verbalize lessened anxiety? use quotes. List coping mechanisms parents and child identified to assist with anxiety. Have parents and child made decisions regarding terminal illness?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DYSFUNCTIONAL GRIEVING

Related to: Loss of child as result of (specify: accident, SIDS, absence of anticipatory grieving).

Defining Characteristics: (Specify: expressed distress; anger; guilt over loss; difficulty in expressing loss; sadness; crying; sudden, unexplained

and unexpected death of infant; shock; grief; denial; social isolation.)

Goal: Parents will resolve dysfunctional grieving.

Outcome Criteria

 \checkmark Parents verbalize understanding about the cause of the death (specify).

 \checkmark Parents acknowledge that their grief is unresolved and seek assistance.

NOC: Psychosocial Adjustment: Life Change

TNTERVENTIONS

PATTONALES

INTERVENTIONS	RATIONALES
Assess feelings of parents and what they perceive happened to infant; listen to any feelings expressed.	Allows feelings of anger, guilt, and sorrow to be expressed following death of infant.
Provide privacy and remain with parents; avoid conversation and questions that may place any blame or cause guilt; (explain cause of death; reinforce that the cause of SIDS is unknown, with no absolute means to prevent or predict it).	Provides support without adding to grief and feelings of guilt.
Prepare child for parents to view and hold; stay with parents during this experience.	Allows parents to say good-bye to their child.
Allow parent to determine the length of time they hold their infant or child; this varies by culture and individual parent needs.	Promotes positive grief resolution if parents hold/see the infant and spend time saying good-bye on their own terms.
Notify clergy or other support if requested; offer baptism/prayer to parents; arrange for clergy to be present, if applicable.	Provides support and comfort.
Provide parents the opportunity to call significant others; if unable, staff member should call.	Presence of other family members and significant others often serves as support for grieving family.
(Answer any questions about SIDS and explain need for autopsy to verify diagnosis.)	Reinforces physician's explanation of disorder.
<pre>Take pictures of infant and offer to parents; saving clothing infant was wearing, ID bracelets, hats, as part of a "memento packet" to be given to parents; if parents refuse packet, save for future retrieval (if appropriate).</pre>	Promotes positive grief resolution.
Assist parents to inform and help siblings understand loss; answer children's questions honestly and	Children's concept of death develops with age, and help is needed to avoid feelings of

appropriately for age level. Assist to identify and use effective coping mechanisms applicable to situation.

Reassure parents that they are not responsible for the death of their child.

Obtain thorough history from parents, including parental resuscitation efforts and illness history (experienced or trained member of staff recommended because of sensitive nature of information). Contact the infant's primary care provider.

Inform of stages and importance of grieving and of behavior that is expected in resolving grief.

Use therapeutic communication techniques, especially active listening. Encourage parents to verbalize their understanding of the cause of death, their feelings of grief, and any concerns about seeking assistance with grieving. Refer family to counseling services, local SIDS chapter, community health nursing agency, grief support groups.

Correct any misinformation or misconceptions regarding the death.

NIC: Grief Work Facilitation

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What are the parents' understandings about the cause of death? Did parents acknowledge their grief and seek assistance? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR DYING CHILD

blame and guilt by siblings.
Promotes movement through grieving
process by utilizing defense
mechanisms that have worked in
the past.
Reinforces that SIDS is an
unpreventable, unexplainable
sudden death of an infant and
that no one can be blamed.
Provides optimal level of accurate

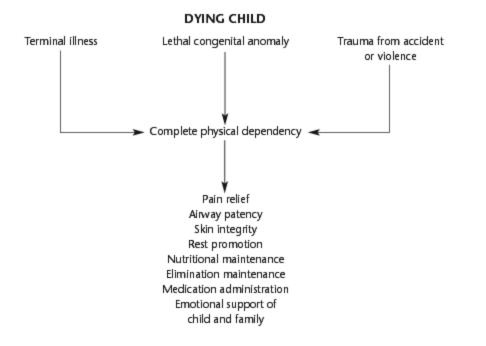
information for medical examiner.

Enhances the parental support system and enhances communication.

Allows, in a nonjudgmental environment, for the initial shock and disbelief that are expected behaviors of grief. Therapeutic communication assists the parents to express their feelings and identify dysfunctional aspects of their

grief.

Provides support and assistance during bereavement or chronic grief which may affect family relationships, presence of infertility or other problems. Assists with resolution of guilt and grieving.



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UNIT 2 - CARDIOVASCULAR SYSTEM

CHAPTER 2.0 - CARDIOVASCULAR SYSTEM: BASIC CARE PLAN

INTRODUCTION

The cardiovascular system consists of the heart and a network of blood vessels: arteries, veins, and capillaries. The heart is an efficient pumping mechanism that circulates oxygenated blood and nutrients to all parts of the body and provides a path for removal of wastes. Alteration in the function of the system may interfere with the client's well-being, thereby causing physical and psychosocial problems for both the affected child and family. Diseases of the cardiovascular system are classified as either congenital malformations or acquired disorders that result from infection, autoimmune responses, or environmental insult. The degree of alteration in function determines the acuity or chronicity of the condition, the interference with growth and development, and the preferred treatment.

Before birth, fetal structures allow the blood to by-pass the nonfunctional lungs and circulate through the placenta for gas, nutrient, and waste exchange. Shortly after birth, fetal circulation converts to postnatal circulation, which continues throughout life.

CARDIOVASCULAR GROWTH AND DEVELOPMENT

HEART AND BLOOD VESSEL STRUCTURE

• Circulation changes at birth involve the closure of the fetal shunts (foremen ovale at birth, ductus arteriosus by the fourth day after birth, and eventually the ductus venosus).

• Size of the heart in the infant is large in relation to total body size and occupies more space in the chest surrounded by the lungs.

• The heart lies at a transverse angle in infancy and gradually changes to a lower and more oblique angle as the lungs grow until maturity is reached.

- The weight of the heart doubles by 1 year of age, and increases four times by 5 years of age.
- The walls of the ventricle are of equal thickness at birth but become thicker on the left side as the demand of peripheral circulation increases.
- Arteries and veins become longer as the body grows, and the walls of the vessels thicken as blood pressure increases.

• The apical pulse is located laterally and to the left of the fourth intercostal space and to the right of the midclavicular line in infants and small children; it changes laterally to the left of the fifth intercostal space and midclavicular line after 7 years of age; the point of maximal intensity (PMI) may be noted at these same areas.

CARDIOVASCULAR ASSESSMENT

- Blood pressure increases and pulse decreases with growth in heart size.
- Heart rate (pulse), resting and awake:

- 1 to 3 months: 100 to 180/min
- 3 months to 2 years: 80 to 120/min
- 2 to 4 years: 80 to 110/min
- 4 to school-aged: 75 to 100/min
- Adolescents: 60 to 90/min
- Pulse pressure: 10 to 15 mm Hg during infancy; 20 to 50 mm Hg throughout childhood.
- Blood pressure (varies with age and position):
- Systolic Diastolic
- (average) (average)
- Infant 65 to 90 mm Hg 55 to 56 mm Hg
- 1 to 5 years 90 to 95 mm Hg 54 to 56 mm Hg
- 5 to 10 years 14 to 102 mm Hg 56 to 62 mm Hg
- Over 10 years 102 to 121 mm Hg 62 to 70 mm Hg

COMMON NURSING DIAGNOSES

DECREASED CARDIAC OUTPUT

Related to: Mechanical factors—alterations in preload; alterations in afterload; alterations in inotropic function of heart.

Defining Characteristics: Variations in hemodynamic readings (BP, CVP); hypovolemia; jugular vein distention; oliguria; decreased peripheral pulses; cold, clammy skin; crackles; dyspnea (specify).

Related to: Electrical factors—alterations in rate; alterations in rhythm; alterations in conduction.

Defining Characteristics: Arrhythmias, ECG changes, bradycardia, changes in contractility resulting from preload or afterload abnormalities (specify).

Related to: Structural factors.

Defining Characteristics: Murmurs, fatigue, cyanosis, pallor of skin and mucous membranes, dyspnea, clubbing, activity intolerance (specify).

Goal: Client will experience increased cardiac output by (specify date and time to evaluate).

Outcome Criteria

 \checkmark Client's BP, heart rate, and respirations will return to or remain within (specify appropriate ranges for each).

 \checkmark Absence of cardiac dysrhythmias.

 \checkmark Skin color and mucous membranes pink; tolerates activity (specify level).

NOC: Cardiac Pump Effectiveness INTERVENTIONS

- Assess cardiac output by monitor-heart rate (apical and peripheral pulses) for 1 minute, noting quality, rate, rhythm, intensity; pulse deficiency; use radial site with gentle palpation in child over 2 years of age, and use apical site with stethoscope and correct size diaphragm in infant and young child; grade pulse on a range from 0 to +4 (specify).
- Assess blood pressure using proper size cuff; diaphragm on stethoscope of proper size; and aneroid or mercury instrument, Doppler method, or electronic device. Approximate cuff width sizes are 4 to 6 cm for infant, 8 to 9 cm for child 2 to 10 years of age; BP cuff bladder should completely encircle extremity circumference and cuff width should cover 2/3 of upper arm/thigh. Take BP of infant with infant supine; take child BP with child sitting and arm supported at heart level; sites for BP determinations may be (radial), leg (popliteal), or ankle (dorsalis pedis) (specify).
- Assess BP when infant/child is at rest (give expected range).
- Assess existence of dysrhythmias per ECG tracings.

RATIONALES

- Cardiac output is the amount of blood pumped from the heart in 1 minute and is determined by multiplying the heart rate by the stroke volume (amount of blood ejected with 1 contraction), which depends on heart contractility, preload and afterload; pulse easily obliterated by compression.
- Doppler method transmits audible sounds through a transducer in the cuff caused by ultrasound frequency caused by blood flow in the artery; the use of oscillometry transmits pressure changes through the arterial wall to the pressure cuff which are detected by an indicator that prints out the readings for BP and pulse.

- Crying or other activity can increase BP 5 to 10 mm Hg; BP elevations that are considered abnormal are: >110/70 in 3 to 6 year olds, >120/75 in 6 to 9 year olds, and >130/80 in 10 to 13 year olds.
- Device that measures and records the heart's electrical activity and provides information about heart rate and rhythm, hypertrophy, effects of electrolyte imbalances, conduction problems and cardiac ischemia.

- Administer cardiac (specify drug, dose, route, and times as ordered) glycosides, vasodilators; monitor for digoxin toxicity by symptoms of anorexia, nausea, vomiting, bradycardia, arrhythmias and digoxin level within 0.8 to 2.0 mcg/L range (therapeutic level) potassium level; take apical pulse for 1 minute before administering digoxin, and withhold if pulse below desired level for age of child.
- Position for comfort and chest expansion in Fowler's, provide quiet environment, pace any activity to allow for rest.
- Monitor temperature for increases q 4 hours.
- Attach cardiac monitor to infant/ child if prescribed.

Inform about heart condition's effect on pulse and blood pressure, and the need for rest and reduction of stress.

Instruct in correct taking of peripheral and apical pulses and when to take them.

Instruct in administration of cardiac glycoside (specify form, dosage, how to take, frequency and time of day), to give 1 hour before or after feedings and not with food, to avoid second dose if child vomits, to avoid making up missed doses when less than 4 hours have passed, and to maintain careful records of administration and effects or adverse signs/symptoms.

Inform to report changes in pulse, blood pressure, digoxin toxicity, change in breathing pattern, edema, presence of infection.

Instruct in application, settings and alarms in use of cardiac monitor.

Vasodilators decrease pulmonary and systemic vascular resistance, which decrease afterload and BP; cardiac glycoside strengthens and decreases the heart rate, which decreases the workload of the heart by more efficient cardiac performance; decreased potassium level enhances risk for digoxin toxicity.

Promotes ease of breathing and rest; reduces stress and workload of the heart.

Pulse increased at rate of 8 to 10/
minute with every degree of elevation
on F scale.

Reveals changes in heart rate and respirations.

Provides information to promote compliance with medical regimen and realization of importance of reducing workload of the heart.

Encourages caretaker, parents to correctly monitor changes in heart function.

Ensures correct administration of cardiac glycoside to prevent toxicity and improve cardiac performance.

Allows for prompt treatment to prevent complications like dysrhythmias or heart failure.

Monitoring may be advised and prescribed for cardiac and respiratory changes.

NIC: Cardiac Care

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What are BP, heart rate, and respirations?)

(Describe cardiac rhythm.)

(What color are skin and mucous membranes? What activity does the child tolerate?)

(Revisions to care plan? D/C care plan? Continue care plan?)

EXCESS FLUID VOLUME

Related to: Compromised regulatory mechanisms.

Defining Characteristics: (Specify: periorbital usually but may be dependent on weight gain, effusion, shortness of breath, orthopnea, crackles, change in respiratory pattern dyspnea, tachypnea, oliguria, specific gravity changes, altered electrolytes.

Goal: Client will return to a state of fluid balance by (date/time to evaluate).

Outcome Criteria

- \checkmark Intake equals output.
- \checkmark Lung sounds clear.
- \checkmark Absence of periorbital edema.

 \checkmark (Specify others if appropriate for client.)

NOC: Fluid Balance

INTERVENTIONS

Assess presence of edema in periorbital tissue or dependent areas, such as extremities when standing; in sacrum and scrotum when in lying position; or generalized in an infant; neck vein distension in child (specify frequency).

Weigh (specify: daily BID or as needed) on same scale, at same time, and with same clothing.

Assess for plueral effusion by presence of dyspnea, tachypnea, crackles, orthopnea, acites; for hepatomegaly by measuring abdominal girth (specify frequency).

RATIONALES

- Increased sodium and water retention result in increased systemic vascular pressure and fluid overload, which lead to edema; gravity determines the site of dependent edema.
- Weight gain from fluid retention is an early sign of fluid retention.
- Indication of gross fluid retention which causes impaired organ function (pulmonary and system venous congestion) is associated with some cardiac or renal

conditions. Assess for oliguria, increased specific gravity, electrolyte imbalances. Administer diuretic therapy early in the day (specify drug, dose, route, and times for client), and monitor resulting diuresis by accurate I&O and weight. Note and document I&O (including losses from breathing and diaphoresis) and intake from all fluids IV or orally taken with medications and meals (if child not toilet trained, weigh diaper to calculate output at 1 gm = 1 ml). Restrict fluid intake as ordered (specify amount calculated for this child); schedule over 24 hours with most given during the day hours; use small cups and allowing older child to keep track of daily amounts. Limit sodium intake as ordered by removing salt shaker, foods high in salt. Maintain bed rest, and position and support edematous body parts; change position (q 2h or specify) provide sheepskin, egg crate mattress. Instruct caregiver in taking weights, noting and reporting gains and losses; and in measuring I&O, and reporting excessive outputs from diuretic therapy or decreases in comparison or intake. Instruct caregiver in correct administration of diuretic early in the day for a child (specify amount, frequency, side effects, and amount of output to expect in relation to intake). Instruct and assist caregiver to schedule fluid intake over 24 hours, restricted. with major portion administered during day hours.

NIC: Fluid Management

Evaluation

conditions. Indicates decreased renal perfusion, which activates the reninangiotensin and aldosterone mechanism, resulting in water, sodium, and potassium retention. Diuretics prevent reabsorption of water, sodium and potassium by tubules in the kidneys, resulting in excretion of excess.

Intake and output ratio should normally be 2:1 or 1 to 2 ml/kg/h.

Supports possible need for additional loss of fluid based on age and using possible limit of 65 ml/kg/24 hrs as a guideline.

Sodium intake is necessary for normal growth and development, and to offset diuretic therapy. Protects and supports edematous parts from pressure and trauma.

Monitors weight to determine fluid accumulation and I&O to prevent imbalances (fluid overload or dehydration).

Promotes excretion of fluid to prevent accumulation.

Promotes compliance if fluids are restricted.

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify intake and output and time frame.)

(Are lung sounds clear?)

(Is there any periorbital edema?)

(Provide data released to other outcomes criteria that were identified.)

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE TISSUE PERFUSION: (CARDIOPULMONARY, CEREBRAL, GASTROINTESTINAL, RENAL, PERIPHERAL)

Related to: Interruption of arterial or venous flow, exchange problems, hypovolemia.

Defining Characteristics: (Specify: Cardiopulmonary—BP and pulse changes, dyspnea, tachypnea, changes in ABGs, cyanosis, changes in cardiac output, ventilation perfusion imbalances, crackles;

Cerebral—changes in mentation, restlessness, lethargy;

Gastrointestinal-vomiting, inability to digest and absorb nutrients, gastric distention;

Renal-oliguria, anuria, periorbital edema, electrolyte imbalance;

Peripheral-skin cold, mottled, or pale; decreased peripheral pulses).

Goal: Client will exhibit effective tissue perfusion by (date/time to evaluate).

Outcome Criteria

 \checkmark Based on specific defining characteristics. Specify for client: (ABG values—specify ranges).

 \checkmark Client is alert, not restless or lethargic.

 \checkmark Bowel sounds present, abdomen soft, nondistended.

 \checkmark Urine output > (specify cc/hr).

 \checkmark Skin warm, pink, and dry, without edema.

NOC: Tissue Perfusion

INTERVENTIONS

- Assess organ functional abilities in relation to disease and its effect on a particular system (specify how).
- Assess pulse, blood pressure, presence of peripheral pulses, capillary refill time, skin color and temperature; oxygenation saturation as measured by pulse oximetry; urinary output, mentation, anorexia, gastric distention (specify when).
- Provide O_2 by hood, cannula, or face mask, depending on age and at rate determined by ABGs as ordered (specify route and rate).
- Administer vasodilator, cardiac glycoside as ordered (specify drugs, doses, routes, and times).
- Position change q 2-4h (specify) to avoid pressure on susceptible body parts, perform ROM if needed.
- Position in Fowler's at height of comfort if respiratory status compromised by pulmonary perfusion.
- Inform caregiver of causes of decreased circulation and its effect on body organs. Demonstrate positions that enhance comfort and circulation, such as cardiac chair or infant seat (specify), which alleviate pressure on body parts; use of pillows to maintain Fowler's position. Inform caregiver to avoid tight and restrictive clothing, such as belts, elastic waists on pajamas, diapers.

RATIONALES

- Interrelationships of systems cause an overlapping of signs and symptoms associated with tissue perfusion causing changes in elimination, oxygenation, nutrition, and mental function. Provides information about cardiac output, which, if decreased, will reduce blood flow and tissue perfusion.
- Provides oxygen to organs for proper functioning.
- Promotes cardiac output and slows and strengthens heart rate for a more efficient pump action and increased return flow of blood to the heart and decreased heart workload
- Promotes circulation and prevents breakdown of tissue from further perfusion decreases associated with pressure.
- Decreases blood volume returning to heart by pooling of blood in lower dependent parts of the body.
- Promotes understanding of condition and risk to organ function.
- Promotes comfort and prevents tissue breakdown.

Constricts circulation.

NIC: Cardiac Care

Evaluation

- (Date/time of evaluation of goal)
- (Has goal been met? Not met? Partially met?)
- (What are ABG values?)
- (Is client alert, not restless or lethargic?)
- (Are bowel sounds present? Is abdomen soft and nondistended?)
- (Specify cc/hr of urine output/time frame.)
- (Is skin warm, pink, and dry, without edema?)
- (Revisions to care plan? D/C care plan? Continue care plan?)

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 DELMAR'S PEDIATRIC NURSING CARE PLANS - 3rd Ed. (2005) UNIT 2 - CARDIOVASCULAR SYSTEM CHAPTER 2.0 - CARDIOVASCULAR SYSTEM: BASIC CARE PLAN

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CHAPTER 2.1 - CARDIAC CATHETERIZATION

INTRODUCTION

Cardiac catheterization is the insertion of a flexible catheter through a blood vessel (most often the femoral vein) into the heart for diagnostic and therapeutic purposes. It is usually combined with angiography when radiopaque contrast media is injected through the catheter and circulation is visualized on fluoroscopic monitors. Catheterization allows measurement of blood gases and pressures within chambers and great vessels; measurement of cardiac output; and detection of anatomic defects such as septal defects or obstruction to blood flow. Therapeutic, or interventional, cardiac catheterizations use balloon angioplasty to correct such defects as stenotic valves or vessels, aortic obstruction (particularly recoarctation of the aorta), and closure of patent ductus arteriosus.

MEDICAL CARE

Chest X-ray: to determine condition of lung fields and cardiac size.

ECG: to detect any cardiac conduction changes or abnormalities.

Complete Blood Count: to provide baseline data and ensure the child is not in an infectious state.

Blood Coagulation Time: to provide baseline data for comparison after the procedure.

Type and Cross-match: obtained for interventional cardiac catheterizations as risk of hemorrhage is greater; not usually obtained for diagnostic procedures.

Analgesics: precatheterization sedation given on-call to the catheterization laboratory.

Intravenous Fluids: IV access is essential for additional medications during catheterization and may be started on the nursing unit or after arrival at the laboratory. Ringer's lactate or 5% Ringer's lactate are routine.

COMMON NURSING DIAGNOSES

See DEFICIENT FLUID VOLUME

Related to: NPO status, blood loss during the catheterization, and diuretic effect of the contrast media.

Defining Characteristics: Elevated temperature, increased heart rate and respiratory rate, decreased blood pressure, decreased skin turgor, pallor, dry mucous membranes (specify).

See PAIN

Related to: Percutaneous puncture site, numerous needle sticks from local anesthesia during procedure, positioning during procedure.

Defining Characteristics: Crying, guarding or refusal to move, verbal expression of pain, increased heart rate and respiratory rate. Cardiac

catheterization is described by most children as painful, but there should be minimal pain postcatheterization (puncture site described as sore). Severe pain needs further investigation (specify).

ADDITIONAL NURSING DIAGNOSES

FEAR

Related to: Invasive, painful procedure, risk of harm, separation from parents, fear of needles, and fear of exposure.

Defining Characteristics: (Specify: Apprehension, expressed concern over impending procedure. In children: increased motor activity, inattention, withdrawal, crying, clinging to parent(s), verbal protests).

Goal: Child (and parents) will exhibit decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Child will not cry, cling to parents, or protest.

 $\sqrt{\text{Parent(s)}}$ will verbalize decreased anxiety/concern.

NOC: Anxiety Control

<pre>INTERVENTIONS Assess parents' and child's understanding of catheterization and any special fears.</pre>	RATIONALES Provides information on parents' and child's knowledge, misunderstanding and particular concerns; sources of anxiety for the parents include fear and uncertainty over the procedure, fear of complications, guilt and anxiety over the child's pain, and uncertainty over the outcome; for the child, fears may include: fear of mutilation and death, separation from parents, fear of the unknown (if the first catheterization), or remembered fear and pain (if repeat catheterization).
Allow expression of fears, clarify any misconceptions or lack of knowledge.	Allows parents and child to express feelings and provides them correct, complete information.
Encourage the child to take along a familiar, comforting item (specify stuffed animal, pillow, taped music).	A familiar object provides comfort and security to the child experiencing unfamiliar events and surroundings.
Encourage parents to accompany child and be with child immediately following the procedure. Prepare the child using age-	Children cope with stressful events best when in the presence of their parents. Age-appropriate information given to

appropriate guidelines; (specify) use concrete explanations just prior to an event for younger children. Include information on what the child will experience through all senses (sights, smells, sounds, feel).

Explain reason for each pre- and postcatheterization procedure.

Inform parents that the child may temporarily act differently at home: may need to stay close to parents, have nightmares, and be less independent; encourage parents to familiar "safe" activities; children, comfort and reassure child, to allow child to "re-live" the experience through stories or play, and to accept temporary setbacks in development.

Inform parents about, and demonstrate how to care for the child's catheterization site; leave Steri-Strips in place until they fall off, do not place child in a tub bath for 3 days; immediately report any bleeding, bruising, redness or swelling to physician.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe child's behavior: does child cry, cling to parents, or protest?)

(Specify what parents said to indicate decreased anxiety/concern; use quotes whenever possible.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Altered hemostasis and trauma from percutaneous puncture.

Defining Characteristics: Increased apical heart rate and decreased blood pressure, bleeding from catheterization site, bruising, decreased level of consciousness (specify).

the child allows for greater

understanding and reassurance; young

children process information through

Stressful events may cause the child to

need extra reassurance and may cause

as the child reverts to comfortable,

like adults, have a need to replay

a temporary regression in development

stressful events in order to understand

accomplished through play activities.

comfortable and confident in caring

all their senses and need to know

what to expect to better cope.

Knowledge of rationale for all

treatments provides greater understanding and acceptance.

and cope, and this is often

Information provides parents the

knowledge they need to feel

for their child.

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark No bleeding from puncture site.

 $\sqrt{}$ BP and heart rate remain within (specify ranges appropriate for child).

NOC: Risk Control

INTERVENTIONS

RATIONALES

INTERVENTIONS	RATIONALES
Obtain baseline laboratory values from precatheterization assessment. Assess vital signs (apical HR, respiratory rate and BP) every 15 minutes × 4, every 30 minutes × 3 hours, then every 4 hours. Maintain pressure dressing on catheterization site and check every 30 minutes for bleeding. If	<pre>Provides comparative data for postcatheterization assessment. Changes in vital signs may indicate blood loss and with internal bleeding may be the first indicator of problems. Constant pressure on site is needed to prevent bleeding; no bleeding, even oozing, should occur.</pre>
bleeding does occur, apply continuous direct pressure 1" above puncture site and notify physician immediately.	
Maintain bed rest for 6 hours postcatheterization as ordered.	Bed rest prevents strain to catheterization site which otherwise might precipitate bleeding; a 45-degree head elevation and slight bend at the knees are acceptable; young children may be held by parents: this is beneficial in decreasing agitation.
Inform parents and child of need for frequent assessments and for bed rest.	Promotes understanding and cooperation.
Encourage parents and child to engage in quiet activities (i.e., reading stories, music).	Allows for expression and inter- action without physical stress; provides distraction for comfort.
Encourage parents of infants and young children to hold their children as an acceptable alternative to resting in bed.	Allows parents to touch and comfort their child in a more normal manner; this decreases the child's agitation, thereby promoting more rest.
Instruct parents to immediately report any sign of bleeding. Teach parents that pressure dressing will be removed after 24 hours and that they should continue to monitor the	Increases close monitoring of the site.

site and report to the physician if

any bleeding is seen.

NIC: Bleeding Precautions

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is there any bleeding from puncture site?)

(Specify child's BP and heart rate.)

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE TISSUE PERFUSION: PERIPHERAL

Related to: Clot formation at puncture site.

Defining Characteristics: Cool, mottled appearance of involved extremity, decreased or absent pulses distal to catheterization site, pain, tingling or numbness in involved extremity (specify).

Goal: Child will experience adequate peripheral tissue perfusion.

Outcome Criteria

 \checkmark Affected extremity will be pink and warm.

 \checkmark Pulses present distal to the catheterization site and equal bilaterally.

 \checkmark Child responds to sensation in extremities equally bilaterally.

NOC: Tissue Perfusion: Peripheral

INTERVENTIONS	RATIONALES
Assess temperature, color and	Clots form at puncture site and the
capillary refill of affected	child is at risk of the clots
extremity and assess distal	seriously obstructing distal
pulses by palpation and Doppler	blood and resulting in tissue
every 15 minutes × 4, every 30	damage. Assessing the extremity
minutes × 3 hours, then every 4 hours.	frequently for adequate perfusion allows for early intervention as needed.
Maintain bed rest with extremity	Bed rest and slight, or no flexion,
straight or slight bend in knee	allows for greater blood flow and
(10 degrees) for 6 hours.	decreases risk of further trauma

	which could increase clot formation.
Apply warmth to the opposite	Improves circulation without
extremity.	causing risk of increased
	bleeding at site.
Inform parents and child of need for frequent assessment of vital signs and need for bed rest with extremity extension.	Promotes understanding and cooperation.
Teach parents and child to avoid tub baths for three days after procedure.	May help decrease risk of infection.

NIC: Bleeding Precautions

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe pulses distal to the catheterization site and compared to other extremity.)

(Describe how child responds to sensation in extremities bilaterally.)

(Revisions to care plan? D/C care plan? Continue care plan?)

HYPERTHERMIA

Related to: Reaction to radiopaque contrast material used in catheterization.

Defining Characteristics: Elevated body temperature (specify) within a few hours of procedure.

Goal: Child will not be hyperthermic by (date and time to evaluate).

Outcome Criteria

 \checkmark Child's axillary temperature will be <100° F.

NOC: Thermoregulation

INTERVENTIONS

RATIONALES

Assess body temperature every hour × 6 hours and then routine (specify route). Continue IV fluids (specify) while child is drowsy, and when fully awake, encourage PO Provides information on which action to take. Increased fluid intake promotes more rapid excretion of the dye.

intake (specify fluids). Administer age-appropriate dose	Acetaminophen will help
of acetaminophen every 4 hours (specify dose).	decrease fever and associated discomfort.
Record hourly I&O.	Assesses routine adequacy of fluid intake and elimination.
Instruct parents to encourage PO fluids.	Involving parents in care increases the likelihood of achieving the goal.
Teach parents to take child's temperature and report any elevations after discharge.	Teaching empowers parents to care for child and helps monitor for hyperthermia.

NIC: Fever Treatment

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify child's temperature.) (Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 2.2 - CONGENITAL HEART DISEASE

INTRODUCTION

Congenital heart disease results from malformations of the heart that involve the septums, valves, and large arteries. They are classified as acyanotic or cyanotic defects. Acyanotic defects occur when a left-to-right shunt is present that allows a mixture of oxygenated and unoxygenated blood to enter the systemic circulation. The most common consequences of these defects in children are growth retardation and congestive heart failure (CHF).

Common cyanotic defects include tetralogy of Fallot and transposition of the great vessels. Tetralogy of Fallot involves four defects that include pulmonic stenosis, ventricular septal defect, right ventricular hypertrophy, and an aorta that overrides the ventricular septal defect. Transposition of the great vessels is a condition in which the aorta arises from the right ventricle instead of the left ventricle, and the pulmonary artery arises from the left ventricle instead of these arteries. Transposition of the great vessels is incompatible with life unless septal defects are also present to allow mixing of blood from the two circulations.

Acyanotic defects include coarctation of aorta, patent ductus arteriosus, and ventricular septal defect. Coarctation of the aorta is the narrowing of the aorta proximal to the ductus arteriosus (preductal), distal to the ductus arteriosus (postductal), or level with the ductus arteriosus (auxtaductal). The position of the narrowing during fetal development determines circulation to the lower body and development of collateral circulation. Patent ductus arteriosus is the failure of the structure needed for fetal circulation to close after birth. Ventricular septal defect is the incomplete development of the septum that separates the right and left ventricles, and it often accompanies other defects.

Congenital heart defects vary in severity, symptoms, and complications, many of which depend on the age of the infant/child and the size of the defect. Treatment may include management with medications, open heart surgery to repair or resect, or to temporarily correct the defect until the child is older and growth takes place.

MEDICAL CARE

Diuretics: chlorothiazide (Diuril), spironolactone (Aldactone) PO, or furosemide (Lasix) PO or IV, depending on acuity of condition and need to promote fluid excretion by decreasing reabsorption of water, potassium, and sodium by the kidneys.

Cardiac Glycosides: digoxin (Lanoxin) tablets or elixir PO or IV-form; administered to prevent or treat congestive heart failure resulting from congenital heart defect by increasing the force of and decreasing the rate of cardiac contractions.

Antibiotics: penicillin G potassium (Pentids solution or tablets) PO, or erythromycin (Ilosone tablets, chewables, suspension) PO if patient is penicillin-sensitive as prophylaxis for bacterial endocarditis.

Prostaglandin Synthesis Inhibitors: indomethacin (Indocin) IV to close PDA.

Prostaglandin Hormones: alprostadil (Prostin VR Pediatric) IV to maintain open PDA when needed for blood flow.

Electrolytes: potassium chloride tablet (Klorvess), elixir (Pan-Kloride) PO as potassium replacement with use of diuretic therapy.

Chest X-ray: reveals cardiomegaly involving left side of heart, no enlargement depending on defect or cardiomegaly involving right ventricle, increased pulmonary blood flow or congested lungs, egg-shaped heart and narrowed mediastinum.

Electrocardiography (ECG): reveals abnormal changes associated with right ventricular and/or atrial hypertrophy, possible abnormal changes associated with left ventricular hypertrophy in older children, may not reveal any abnormality depending on specific defect; identifies arrhythmias.

Echocardiography (contrast, two-dimensional or real time, M-mode): reveals cardiomegaly, atrial or ventricular changes and location and size, great vessel location and size, valve function and any abnormalities or obstructions of the valves, increase in left atrial to aortic ratio, location of shunting in heart.

Doppler: reveals circulation abnormalities and congested lung areas, done with or without echocardiography.

Cardiac Catheterization: reveals abnormalities in communication between chambers, oxygen, and pressure levels in the chambers; location and number of septal defects.

Angiography: reveals cardiac defect by revealing detailed heart structure.

Electrolyte Panel: reveals possible decreased potassium and increased sodium.

Complete Blood Count (CBC): increased WBC with infection, decreased Hgb and Hct with anemia, increased RBC, decreased platelet count.

Prothrombin or Partial Thromboplastin Times (PT, APPT): reveals bleeding tendency and evaluates components of the blood-clotting mechanisms.

Blood Urea Nitrogen (BUN): reveals increase when heart is not able to perfuse kidneys.

Arterial Blood Gases (ABG): reveals decreased pH and PO₂ and increased PCO₂ resulting from changes in pulmonary blood flow.

Surgical Shunt: increases blood flow to the lungs for severely hypoxic newborns creating an artificial connection between the right or left subclavian artery and the pulmonary artery on the same side (modified Blalock-Taussig shunt).

COMMON NURSING DIAGNOSES

See DECREASED CARDIAC OUTPUT

Related to: Structural factors of congenital heart defect.

Defining Characteristics: Variations in hemodynamic readings (hypertension, bounding, pulses, tachycardia, specify values), ECG changes, arrhythmias, fatigue, dyspnea, oliguria, cyanosis or absence of cyanosis, murmur, decreased peripheral pulses, widened pulse pressure, squatting or knee-chest position.

See INEFFECTIVE BREATHING PATTERN

Related to: Decreased energy and fatigue, pulmonary complications.

Defining Characteristics: Dyspnea, hypoxia (blue baby), tachypnea, abnormal ABGs, cyanosis (specify).

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest, digest, or absorb nutrients because of biologic factors.

Defining Characteristics: Poor feeding, fatigue, slow growth, lack of interest in food, prolonged impaired cardiac function, decreasing perfusion to gastrointestinal organs (specify).

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of acute or chronic illness or disability (specify).

Defining Characteristics: Altered physical growth, delay or difficulty in performing motor or social skills typical of age, dependence and isolation (specify).

ADDITIONAL NURSING DIAGNOSES

ACTIVITY INTOLERANCE

Related to: Generalized weakness.

Defining Characteristics: (Specify: presence of circulatory/respiratory problem, verbal complaint of fatigue or weakness, needs to rest after short period of play.)

Related to: Imbalance between oxygen supply and demand.

Defining Characteristics: Abnormal heart rate or blood pressure response to activity, exertional dyspnea (specify).

Goal: Child will tolerate increased activity.

Outcome Criteria

 $\sqrt{}$ (Specify for this child the activity level that is optimal within the limitations of the congenital heart disease.)

NOC: Activity Tolerance

INTERVENTIONS Assess level of fatigue, ability to perform ADL and other activities in relation to severity of condition.	RATIONALES Provides information about energy reserves and response to activity.
Assess dyspnea on exertion, skin	Indicates hypoxia and increased
color changes during rest and when	oxygen need during energy
active. Allow for rest periods between care;	expenditure.
disturb only when necessary for	Promotes rest and conserves
care and procedures.	energy.

Avoid allowing infant to cry for long periods of time, use soft nipple for feeding; cross-cut nipple; if unable for infant to ingest sufficient calories by mouth, gavage-feed infant. Provide toys and games for quiet play and diversion appropriate for age of child (specify), allow to limit own activities as much as possible. Provide neutral environmental Avoids hot or cold extremes

temperature; when bathing infant, expose only the area being bathed and keep the infant covered to prevent heat loss.

Explain to parents need to conserve energy and encourage rest.

Inform of activity or exercise restrictions and to set own limits for exercise and activity (specify for child).

Inform to request assistance when needed for daily activities.

Assist parents to plan for care and rest schedule.

NIC: Cardiac Precautions

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe child's ability to engage in the activity level that was specified as criteria.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Chronic illness.

Defining Characteristics: Debilitated condition, IV-site contamination, susceptibility to bacterial endocarditis, immobility, change in VS (specify).

Conserves energy. Cross-cut nipple requires less energy

Promotes growth, diversion, and

which increase oxygen and

Prevents fatigue while engaging

Provides for rest and prevents

overexertion, minimizes energy expenditure.

in activities as nearly

normal as possible.

Prevents overtiring and

for infant to feed.

physical and mental

development.

energy needs.

Avoids fatique.

fatique.

Goal: Child will not experience any infection by (date and time to evaluate).

Outcome Criteria

√ Temperature <100° F

 \checkmark Absence of inflammation of IV site: no swelling, redness, or increased tenderness.

NOC: Risk Control

INTERVENTIONS

RATIONALES

Assess temperature, IV site if present, increased WBC, increased pulse and respirations (specify when). Provide adequate rest and nutritional needs for age (specify for child). Wash hands before giving care.

Avoid allowing those with infections to have contact with infant/ child.

Administer antibiotics as ordered (specify drug, dose, route, and times). Use sterile technique for IV

maintenance if present.
Inform to avoid contact with
those in family or friends that
have an infection.
Instruct parents and child in
personal hygiene and practices
(rest, nutrition, activity,
bathroom for elimination,
bathing).

Protects against potential infection by increasing body resistance and defenses. Prevents transmission of microorganisms to infant/ child. Prevents transmission of infectious agents to infant/ child with compromised defense. Describe action of specific antibiotic ordered. Prevents contamination, which causes infection. Infections are easily transmitted to a debilitated child. Prevents reduced defenses or

exposure to possible

contaminants.

Provides information indicating

potential infection.

NIC: Infection Protection

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature?) (Describe assessment of IV site.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Cardiac function compromised by congenital defects and medication administration.

Defining Characteristics: (Specify: digoxin toxicity (vomiting, dysrhythmia), hypokalemia (muscle weakness, hypotension, irritability, drowsiness), congestive heart failure (tachycardia, dyspnea fatigue, restlessness, cough, cyanosis, orthopnea, edema, weight gain, neck vein distention, decreased BP, cardiomegaly), hypoxemia, possible cardiac surgery.)

Goal: Child will not experience injury by (date/time to evaluate).

Outcome Criteria

 \checkmark Specify, e.g., digoxin level <2.5 ng/mL.

 \checkmark Parent correctly administers medications.

 $\sqrt{}$ Parent verbalizes signs and symptoms of complications to report (specify).

NOC: Risk Control

INTERVENTIONS

Assess for risk of drug toxicity, cardiac complication of heart failure. Monitor orders for diagnostic tests and procedures. Administer digoxin or indomethacin in correct dosages (specify), check dosages, take apical pulse for a full minute before administering digoxin, assess for drug responses. Assist and support family's feelings and decision regarding surgery. Instruct in administration of cardiotonic, taking apical pulse, when to withhold (less than 70-80 in

child and 90-100 in infant), to notify physician of low pulse or irregular pulse, signs of toxicity. Prepare parents and child (use play doll) for diagnostic procedures and/ or surgery; should be extensive, consistent, and comprehensive, including surgical procedure to be performed and expected results, prognosis and whether corrective, palliative, temporary, or permanent. Teach actions to take if child becomes cyanotic (knee-chest or squatting

RATIONALES	
Early identification of signs and	
symptoms of complications allows	
preventive measures and	
adjustments to be made.	
Allows for preparation and support	
of parents and infant/child.	
Promotes safe administration of	
cardiotonic to decrease and	
strengthen heart rate (digoxin),	
or to promote closing of ductus	
(indomethacin).	
Provides needed support to allay	
anxiety and promote caring	
attitude.	
Ensures safe and accurate	
administration of cardiac	
glycoside.	

Assists in allaying anxiety and understanding that diagnostic tests are usually done before surgery.

Encourages calmness during attack and teaches actions that will

position, elevating head and chest), relie when to call physician. fear.

relieve episode and associated fear.

NIC: Medication Administration

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is digoxin level? Describe parent ability to administer medication safely. Did parent verbalize complications signs to report? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: Situational and developmental crises of family and child.

Defining Characteristics: (Specify: family expresses concern and fear about infant/child's disease and condition, displays protective behavior disproportionate to need to grow and develop, chronic anxiety and possible hospitalization and surgery.)

Goal: Family will cope more effectively by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify signs of increased development of coping skills with infant/child's illness and changes in family coping.)

NOC: Family Coping

INTERVENTIONS	RATIONALES
Observe for erratic behaviors (anger, tension,	Information affecting ability of family to cope with infant/
disorganization), perception of crisis situation.	child's cardiac condition.
Assess usual family coping methods and effectiveness.	Identifies need to develop new coping skills if existing methods are ineffective in changing behaviors exhibited.
Assess need for information and support.	Provides information about need for interventions to relieve anxiety and concern.
Encourage expression of feelings and provide factual information about infant/child.	Reduces anxiety and enhances family's understanding of condition.
Assist in identifying and using techniques to cope with and solve problems and gain control over	Provides support for problem solving and management of situation.

the situation (specify).

Provide anticipatory guidance for crisis resolution and allow for grieving process. Assists family in adapting to

Promotes behavior change and adaptation to care of infant/

Knowledge will enhance family

Chronic anxiety, fatigue, and

capabilities of family.

Prevents unnecessary anxiety

knowledge or beliefs.

Promotes normal growth and

resulting from inaccurate

development of family and

and family relationships.

with cardiac defect.

from nursing personnel.

Prevents behavioral problems and

child control over family, which interfere with child's growth

Assists in coping with effects and

special needs of infant/child

Referral supplies more assistance

with coping than is available

what to expect.

infant/child.

understanding of condition and

isolation as result of infant care will affect health and care

Relieves tension when they know

of adverse effects of behaviors.

coping mechanisms.

child.

situation and developing new

- Suggest and reinforce appropriate coping behaviors, support family decisions.
- Teach that overprotective behaviors may hinder growth and development during infancy/ childhood.
- Encourage to maintain health of family members and social contacts.
- Teach family about the disease process and behaviors, physical effects, and symptoms of condition.
- Clarify any misinformation and answer questions regarding disease process.
- Encourage parents to include ill infant/child in family activities rather than family revolving around needs of infant/child.
- Encourage to maintain consistent behavior limits and modification techniques.
- Instruct parents in nutritional and activity needs and/or limitations and approaches that will assist in establishing an effective pattern.
- Refer family for additional support and counseling if indicated (specify where to refer family).
- NIC: Family Therapy

Evaluation

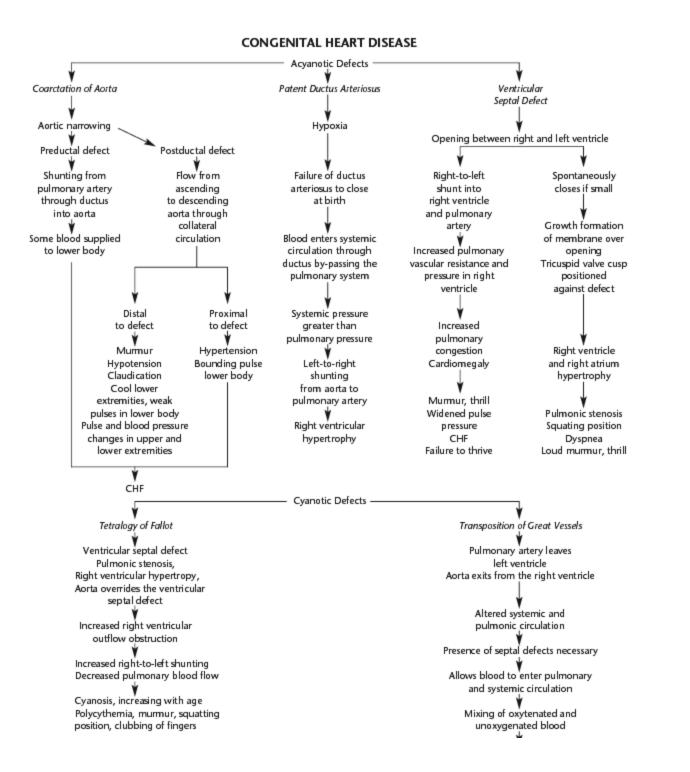
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe increased coping skills of family.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CONGENITAL HEART DISEASE



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CHAPTER 2.3 - CONGESTIVE HEART FAILURE

INTRODUCTION

Congestive heart failure is the inability of the heart to maintain the workload necessary to pump blood throughout the circulatory system of the body because of ineffective contractions. In children, cardiac heart failure occurs as a result of changes associated with congenital heart defects, such as those resulting in left-to-right shunts (volume overload) or obstructive lesions within the heart (pressure overload), of cardiomyopathy affecting the myocardium or dysrhythmias (decreased contractility), or of disorders such as anemia or sepsis (high cardiac output needs). In infants and children, failure of one side of the heart generally causes failure in the other side. Normally, any predisposing problem that blocks the effective flow of blood causes the heart to respond by compensatory mechanisms that maintain the workload of the heart. Congestive heart failure occurs when the compensatory mechanisms are not able to maintain the workload of the heart, and the body tissues and organs are deprived of the oxygen and nutrients they need to function properly.

MEDICAL CARE

Diuretics: chlorothiazide (Diuril), spironolactone (Aldactone) PO, which promotes fluid excretion by acting on the distal and proximal tubules or blocks action of aldosterone to decrease water, sodium chloride, and potassium absorption; furosemide (Lasix) PO or IV for acute failure, which acts to block reabsorption of water and sodium in the proximal, distal tubules and loop of Henle.

Cardiac Glycosides: digoxin (Lanoxin) tablets or elixir PO or IV form, depending on treatment, for acute or maintenance therapy to increase the force of and decrease the rate of cardiac contractions. Digoxin has a narrow therapeutic serum level of 0.8 to 2.0 g/L.

Angiotensin-Converting Enzyme (ACE) Inhibitors: captopril (Capoten), enalapril (Vasotec), PO to inhibit conversion of angiotensin I to II by reducing the production of renin; ultimately the result is to reduce vasoconstriction and aldosterone secretion, which lowers blood pressure and the work of the heart.

Electrolytes: potassium chloride tablet (Klorvess), elixir (Pan-Kloride) PO as a potassium replacement with use of diuretic therapy.

Humidified Oxygen: relaxes pulmonary vasculature and decreases cardiac workload.

Analgesics/Sedatives: morphine sulfate SC or IV to relax smooth muscle.

Chest X-ray: for cardiac dilatation and hypertrophy.

Electrocardiography: reveals ventricular hypertrophy and arrhythmias.

Echocardiography: for abnormal valve function via ultrasound.

Digoxin Level: for serum level, to prevent toxicity, and regulate dosage.

Electrolyte Panel: for hypokalemia caused by diuretics or hyperkalemia resulting from K⁺ supplements and/or Vasotec. May result in cardiac dysrhythmias.

Complete Blood Count: decreased Hgb and Hct in anemia.

Arterial Blood Gases: for decreased PO₂ and pH and increased PCO₂ leading to acidosis with pulmonary changes.

COMMON NURSING DIAGNOSES

See DECREASED CARDIAC OUTPUT

Related to: Mechanical factors with alterations in (specify: preload, afterload, and inotropic changes in heart).

Defining Characteristics: (Specify: fatigue; oliguria; decreased peripheral pulses; pale, cool extremities; tachycardia; decreased BP; dyspnea, crackles.)

See INEFFECTIVE BREATHING PATTERN

Related to: Decreased lung expansion; pulmonary congestion.

Defining Characteristics: (Specify: dyspnea, tachypnea, orthopnea, cough, nasal flaring, respiratory depth changes, altered chest excursion, use of accessory muscles with retractions, abnormal arterial blood gases, wheezing, crackles, grunting, cyanosis.)

See FLUID VOLUME EXCESS

Related to: Compromised regulatory mechanisms.

Defining Characteristics: (Specify: edema [periorbital, peripheral], effusion, weight gain, dyspnea, orthopnea, crackles, blood pressure changes, oliguria, jugular vein distention, hepatomegaly, restlessness and anxiety, altered electrolytes, change in mental status.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify, e.g., fatigue.)

Defining Characteristics: (Specify, e.g., percentage of meals eaten, weight loss, weight percentile, laboratory values.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Medication (diuretics).

Defining Characteristics: (Specify, give values: output greater than intake, weight loss, hypokalemia, hypernatremia.)

See INEFFECTIVE TISSUE PERFUSION: CARDIOPULMONARY, PERIPHERAL

Related to: Hypervolemia, prolonged cardiac failure

Defining Characteristics: (Specify: edema, dyspnea, change in color, temperature of extremities [mottled, cold], decreased peripheral pulses,

effusion, changes in BP (specify), tachypnea, orthopnea, tachycardia, cough.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: threat of death, threat of or change in health status, threat of change in environment [hospitalization].)

Defining Characteristics: (Specify: parent—increased apprehension that condition might worsen into life-threatening situation, increased concern and worry about possible hospitalization, increased tension and uncertainty, chronic worry. Child—unhappy and sad attitude; withdrawn or aggressive behavior; somatic and fatigue complaints; failure to thrive and participate in school, play, or social activities.)

Goal: Client will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 $\sqrt{(\text{Specify, e.g., display relaxed facial features, engage in relaxation exercises, express feeling in control of anxiety.)}$

PATTONALES

NOC: Anxiety Control

INTERVENTIONS

INTERVENTIONS	RATIONALES
Assess level and manifestations of anxiety in parents and child at each visit.	Provides information needed for interventions and clues to severity of anxiety.
Allow expression of fears and concerns and time to ask questions about disorder and what to expect.	Provides opportunity to vent feelings and secure information to reduce anxiety.
Provide supportive, nonjudgmental environment and individualized, consistent care.	Promotes trust and reduces anxiety.
Hold and cuddle infant when crying/ tense.	Promotes comfort and security.
Inform parents and child of all procedures and treatments, anticipate needs.	Relieves anxiety caused by fear of the unknown.
Allow parents to stay and provide open visitation and telephone communication; encourage to participate in care and to plan care similar to usual home patterns.	Reduces anxiety by allowing presence and involvement in care and provides familiar persons and routine for child.
Keep parents informed of changes in condition, progress made.	Promotes understanding and reduces anxiety about whether child is improving.
Explain why hospitalization became necessary (specify).	Promotes understanding of disorder and underlying disease that causes this complication.
Clarify any misinformation with	Promotes knowledge and prevents

simple, understandable language and honesty. Instruct in signs and symptoms indicating possible heart failure (fatigue, tachycardia, anorexia, dyspnea, tachypnea) and measures to take (specify).
anxiety caused by inaccurate information or beliefs. Provides information of what might be expected and what to report in order to allay anxiety.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parent/child verbalize decreased anxiety? Describe facial tension; did parent/child do relaxation exercises? What did parent/child say about feeling in control? Use quotes whenever possible.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ACTIVITY INTOLERANCE

Related to: Imbalance between oxygen supply and demand.

Defining Characteristics: (Specify: abnormal heart rate or blood pressure response to activity, exertional dyspnea, fatigue, weakness, respiratory/circulatory problem, provide data.)

Goal: Child will engage in tolerable levels of activity by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ Engages in stimulating activities appropriate for developmental needs and energy level (specify). Balances periods of activity and rest.

 \checkmark Controls level of activity to prevent fatigue or cardiac symptoms.

NOC: Activity Tolerance

INTERVENTIONS Assess level of fatigue, v/s, and responses to activity.	RATIONALES Provides information about change in vital signs and energy level.
Allow for rest periods between care, disturb only when necessary and then perform care and treatments during one period of time.	Promotes rest, conserves energy and reduces heart workload.
Avoid allowing infant to cry for	Conserves energy and prevents

long periods of time; use soft nipple with large opening for feeding and feed frequently, slowly, and in small amounts (specify).	fatigue.
Provide small, frequent meals for child.	Conserves energy.
Provide toys and quiet, age- appropriate play (specify). Provide neutral environmental temperature.	Allows for play without depleting energy reserves. Extremes of temperature increase oxygen and energy needs, which increase work of heart.
Explain reason for need to conserve energy and encourage rest.	Promotes compliance with activity restrictions.
Discuss activities allowed, type of play recommended, and rationale.	Prevents fatigue while still allowing activities as near normal as possible.
Assist in planning for rest and activity schedule.	Provides for rest, prevents overexertion and symptoms, minimizes energy expenditure.
<pre>Inform of continued stimulation- type activities (visual, auditory, tactile, mental, and physical; Specify).</pre>	Promotes normal growth and development.

NIC: Activity Therapy

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe activity child engaged in; provide information about balance of activity and rest; describe how child controls activity in response to fatigue or cardiac symptoms.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about disorder and treatments/care.

Defining Characteristics: (Specify: verbalization of need for information about disease, medications, dietary restrictions.)

Goal: Parents will gain knowledge about disorder and treatment by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of child's disorder, causes, and risk factors.

 \checkmark Parents participate in treatment planning.

 \checkmark Parents correctly administer medications to child.

 \checkmark Parent verbalizes signs of medication side effects and signs of congestive heart failure to report.

NOC: Knowledge: Diseases Process

INTERVENTIONS

RATIONALES Promotes plan of instruction that

- Assess knowledge of disease, causes and methods to prevent or control condition, willingness and interest to implement care to reduce work of heart, ability and readiness to learn.
- Provide information about disorder causes and risk factors; use clear, understandable language, pictures, pamphlets, models, video tapes, anatomic doll in teaching (specify).
- Teach to plan menus that include sodium restriction, fluids if prescribed, additional calories (specify for child).

Teach about administration of cardiac glycosides and diuretics, including dosage, frequency, route, side effects to report, expected results (specify).

Instruct in taking pulse for 1 minute and allow return demonstration.

Discuss effects of disorder on infant/child (growth and physical development).

Teach to report infection or changes in breathing, pulse, irritability, restlessness, edema, temperature (increase), or weight.

Ask parent to verbalize or returndemonstrate all teaching that has been done.

Provide additional written or video

is realistic to ensure compliance of medical regimen, prevents repetition of information.	
Ensures understanding and aids in reinforcement of learning.	
<pre>Allows input, control over planning for sodium; fluid restriction may be needed to prevent fluid retention; additional calories provided for higher metabolic needs. Ensures correct administration of drugs to prevent heart failure and drug toxicity.</pre>	
Apical pulse taken before	

administration of cardiac glycoside. Disorder slows growth and development for age.

Reduction in body defenses
 predisposes to infectious
 process, signs and symptoms
 reported to prevent progressive
 heart failure.
Parents may be overwhelmed with too
 much information. Allows the
 nurse to identify areas for
 additional instruction.

Allows parent to review information

information for parents.

at home; allows for varied learning styles.

NIC: Teaching: Disease Process

Evaluation

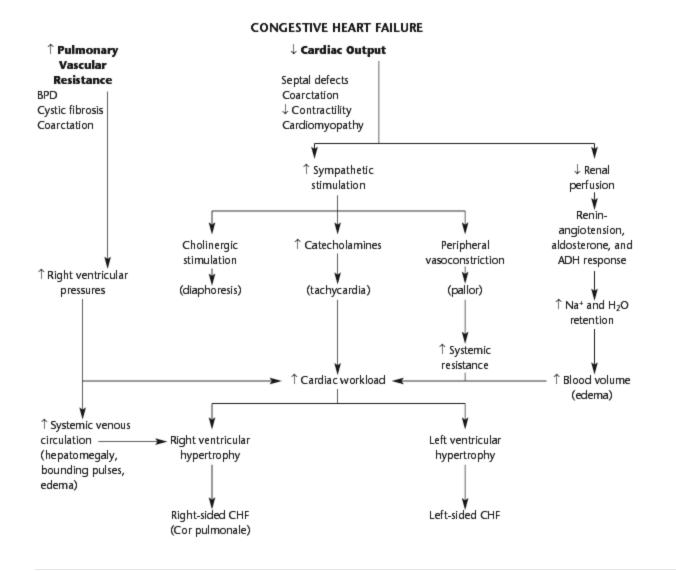
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize understanding of child's disorder, causes, and risk factors? Did parents participate in treatment planning? Do parents correctly administer medications? Can parent verbalize signs of medication side effects and signs of congestive heart failure to report?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CONGESTIVE HEART FAILURE



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CHAPTER 2.4 - CARDIAC DYSRHYTHMIAS

INTRODUCTION

Dysrhythmia is a term used to describe cardiac rate and rhythm abnormalities or irregularities. They may originate from any site in the heart, as any cell in the myocardium has the ability to discharge an impulse. In children, they may occur as the result of cardiac surgery or congenital heart defects and are less common than in adults. Treatment consists of medications, and in some cases, a permanent pacemaker to manage conduction disturbances in the heart.

MEDICAL CARE

Antidysrhythmics: verapamil (Isoptin) PO or IV, depending on acuteness of condition, to slow SA and AV node conduction in tachyarrhythmias.

Cardiac Glycosides: digoxin (Lanoxin) PO to slow and strengthen heart beat.

Cardiac Pacemaker: to initiate or supplement conduction in the myocardium.

Chest X-ray: reveals correct placement of pacemaker catheter.

Electrocardiography/Holter Monitoring: reveals deviations suggesting dysrhythmias that assist in diagnosis of cardiac conditions and provide rhythm strips to monitor pacer function; test to determine pharmacologic treatment of dysrhythmias; similar to cardiac catheterization, which artificially induces a dysrhythmia and administers different drugs IV to see which will terminate the dysrhythmia.

COMMON NURSING DIAGNOSES

See DECREASED CARDIAC OUTPUT

Related to: Electrical factors with alteration in rate, rhythm, and conduction.

Defining Characteristics: (Specify: dysrhythmias, ECG changes, changes in apical and peripheral pulses, failing batteries or break in pacemaker catheter, provide data.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INFECTION

Related to: Inadequate primary defenses (broken skin) (specify where).

Defining Characteristics: (None, as this is a potential diagnoses.)

Goal: Child will not experience any infection by (date/time to evaluate).

Outcome Criteria

 \checkmark Site will be clean and dry, without redness, edema, drainage, or odor.

 \checkmark Child's temperature will be <101° F.

NOC: Risk Detection

INTERVENTIONS

RATIONALES

an infection.

cause infection.

site of wound.

adhesive pads.

to skin.

Indicates phlebitis or dislodgement of infusion

Temperature >101° F or **U** WBC

may indicate development of

Handwashing prevents the spread

of microorganisms that may

Indicates infectious process at

catheter for administration

caused by electrode gel and

irritation and breakdown

Prevents bacterial growth and

Prevents prolonged irritation

Prevents irritation to vein and

phlebitis (action of drug).

Monitors for infection.

Maintains sterility or

cleanliness of site.

prolonged irritation to vein.

Prevents contamination by pathogenic microorganisms.

of fluids and IV medications. Infection can result from skin

- Assess temperature q 4 hours. Monitor lab work as obtained.
- Wash hands before and after providing care for patient. Teach family and child to wash hands frequently.
- Assess site for warmth, redness, pain, drainage, and odor q 4 hours.
- Assess IV site for edema, infiltration, redness, and warmth q hour.
- Assess skin under ECG electrodes for erythema, irritation, or rash (if cardiac monitoring present).
- Maintain sterile technique for dressing changes, IV site changes, and care of any breaks in skin.
- Change IV site and tubing every 24 to 72 hours according to protocol.
- Gently wash and dry electrode sites when removed and before reapplication.
- Administer antibiotic therapy as ordered by physician (specify). Teach parents to take oral or axillary temperature.
- Instruct on care of site during and after healing.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

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(Describe wound. What is child's temperature?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Chemical or mechanical insult.

Defining Characteristics: (Specify: negative response to medications [digoxin toxicity]; pacemaker or catheter malfunction; failure of pacemaker to capture or sense arrhythmias.)

Goal: Child will not experience any injury by (date/time to evaluate).

Outcome Criteria

 \checkmark Proper functioning and maintenance of pacemaker system with pulse rate, rhythm, and duration occurring as programmed.

 \checkmark Digoxin level maintained at therapeutic level (specify); K⁺ levels within normal ranges (specify).

NOC: Risk Detection INTERVENTIONS

RATIONALES Assess pulse, changes in cardiac Decreases in pulse and cardiac output indicate battery output, changes in ECG (specify depletion; ECG changes may when). indicate loss of capture, arrhythmias from malpositioning of pacing catheter. Assess digoxin, potassium and Electrolyte imbalance may result in calcium levels as obtained. arrhythmias, too high or too low dosages, or cardiotonic causes arrhythmias. Monitor effect of antidysrhythmics Ensures desired effect of by taking pulse rate and rhythm; medications (action of drugs). carefully administer correct dosage at correct rate (specify). Instruct parents in administration Ensures proper dosage, frequency, of antidysrhythmics; cardiac and knowledge of when to report glycosides; diuretics, including side effects. name, actions, dosage, frequency, side effects, how to take, expected results. Describe to parents and child the Provides understanding of type and device and its parts, how it function of pacemaker; parts functions, and type of lead used; include the generator with the use manufacturer's instruction battery and electronic circuitry, pamphlet, drawing, and models. of which produces the impulse to the the impulse to the heart; lead may heart, and a lead, which operates be epicardial or transvenous. as a conductor

Teach parents the method of taking pulse (apical) for 1 minute. Describe procedure for transmission of ECG by telephone to parents.	Monitors effect of medication and changes to report. Transmits ECG strips by phone to monitor for dysrhythmias, pacemaker function, and battery depletion.
Review activity limitations, types of activities to avoid that might affect pacemaker function (contact sports).	Activity tolerance usually improved with pacemaker.
Stress the importance of wearing identification with pacemaker type, site of insertion, physician name and number.	Provides information for emergency care.
Inform to avoid electrical interferences, microwave ovens, and to request hand scanner at airports.	Some pacemakers are still affected by electrical interference of current leakage.
Stress the importance of follow-up visits to physician. Refer to cardiopulmonary resuscitation (CPR) classes.	Ensures monitoring of condition and pacemaker function. May be needed as an emergency measure to maintain normal rhythm.

NIC: Dysrhythmia Management

Evaluation

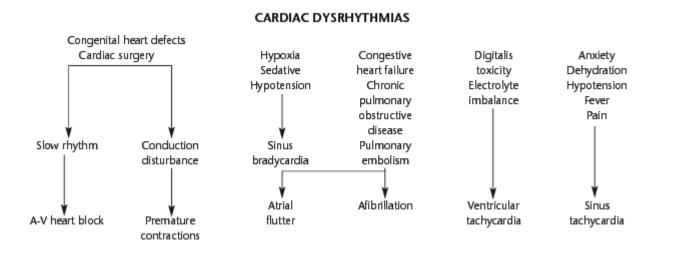
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is pacemaker functioning properly? Specify; what is digoxin level? What is potassium level?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CARDIAC DYSRHYTHMIAS



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CHAPTER 2.5 - HYPERTENSION

INTRODUCTION

Hypertension in children is reflected by the consistent readings of the systolic and/or diastolic blood pressure at the level of or above the 95th percentile for age and sex. It may be primary or secondary. Fifty to 80% of secondary hypertension is caused by renal parenchymal disease; therefore, infants and children with hypertension and adolescents with severe hypertension need to be evaluated for renal pathology. Hypertension in children is of particular concern because of its close association with adult hypertension. Children with increased blood pressure usually do not display any overt symptoms. Blood pressure determinations are a part of routine examination in children 3 years and older. Children under 3 who have been diagnosed with a heart condition are also screened for hypertension.

MEDICAL CARE

Diagnosis and Treatment of Underlying Cause: preferred over use of drug therapy in children.

Chest X-ray: hypertrophy of left ventricle in sustained hypertension.

Electrocardiography: cardiac abnormalities.

Urinalysis: renal disease or infection.

Electrolytes: hypokalemia, hypernatremia during diuretic therapy.

Lipid Panel: increases in lipoproteins, cholesterol, and triglyceride levels.

Blood Urea Nitrogen: increases in impaired renal function in secondary hypertension.

Creatinine: increases in impaired renal function in secondary hypertension.

Complete Blood Count: increased WBC in presence of infection.

Diuretics: chlorothiazide (Diuril and Hydrochlorothiazide Chydrodiuril) PO promotes diuresis and elimination of sodium by preventing reabsorption; it also decreases cardiac output, which reduces peripheral vascular resistance.

Beta-Blockers: propranolol (Inderal), PO to lower cardiac output, which decreases blood pressure.

Angiotension-Converting Enzyme (ACE) Inhibitors: captopril (Capoten), PO to lower total peripheral resistance by inhibiting angiotensin-converting enzyme.

Vasodilators: hydralazine (Apresoline), PO to relax smooth muscle of arterioles, resulting in reduced peripheral resistance.

COMMON NURSING DIAGNOSES

See FLUID VOLUME EXCESS

Related to: (Specify: compromised regulatory mechanisms, excessive sodium intake.)

Defining Characteristics: (Specify: edema, weight gain, intake greater than output, blood pressure changes, altered electrolytes—give data.)

See IMBALANCED NUTRITION: MORE THAN BODY REQUIREMENTS

Related to: Excessive intake in relationship to metabolic need.

Defining Characteristics: (Specify: weight 10% over ideal for height and frame, dysfunctional eating pattern, hereditary predisposition—provide data.)

See INEFFECTIVE TISSUE PERFUSION: RENAL

Related to: (Specify: interruption in renal, arterial, or venous flow.)

Defining Characteristics: (Specify: edema, oliguria, hypertension.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Medications (diuretic).

Defining Characteristics: (Specify: increased urinary output, sudden weight loss, hypokalemia, dry skin and mucous membranes.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: Internal regulatory function.

Defining Characteristics: (Specify: uncontrolled hypertension; neurologic status [blurred vision, headache, irritability, dizziness, papilledema]; future renal, heart, circulatory problems.)

Goal: Child will not experience injury by (date/time to evaluate).

Outcome Criteria

 \checkmark Blood pressure will remain within appropriate range for child (specify range).

 \checkmark Child denies headache, dizziness, or visual changes.

NOC: Symptom Control

INTERVENTIONS

RATIONALES

Assess BP (using a Doppler method on an infant and proper size cuff on child). Use a cuff that covers 2/3of the upper arm and inflatable bladder that encircles the child's arm circumference (take an infant's BP in a supine position; take a child's BP with the child seated and the arm supported at the level of the heart); obtain readings when infant/child is at rest q 2h. Assess for headache, dizziness, nosebleed, visual changes. present. Provide quiet environment and reduce activities, stress and stimuli. stimulation. Administer antihypertensives and diuretics as prescribed (specify drug, dose, route, and time). (action). Teach medication administration including action, dosage, hypertension. frequency, side effects, importance of long-term therapy, physical and behavioral changes to report (specify). Demonstrate and have parents return the demonstration of taking BP correctly and of maintaining a log of readings. Instruct parents to report any sustained elevation of BP or neurologic symptoms. complications. Reinforce that therapy is long term and of consequences of noncompliance (specify). Praise child and family for compliance with regimen.

NIC: Teaching: Prescribed Medication

Evaluation

(Date/time of evaluation of goal)

Provides accurate systolic and diastolic readings to establish a pattern of elevations, although no definite readings are used to diagnose hypertension in children.

Indicates increased BP, although symptoms in children are varied and some or none of the symptoms may be

May increase BP by sympathetic

Drug therapy is given diuretics as prescribed when BP does not respond to nonpharmacologic methods of reducing it; control is managed with the use of one drug and cautious addition of another drug, depending on side effects produced and achieved reduction of BP

Pharmacologic intervention to control

Offers correct monitoring of BP for changes that might indicate need for initiation and/or changes in treatments for children with chronic hypertension. Provides opportunity to prevent

neurologic impairment or other

Provides realistic support and rationale to encourage compliance of drug therapy.

Positive reinforcement enhances compliance and self-esteem.

(Has goal been met? Not met? Partially met?)

(What is child's BP? Does child deny headache, dizziness, and visual disturbances?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE: HYPERTENSION

Related to: Lack of information or experience about disease and treatment.

Defining Characteristics: (Specify: parents, child verbalize need for information about nonpharmacologic treatments for hypertension.)

Goal: Parents (and child) will gain information about hypertension.

Outcome Criteria

 \checkmark Parents (and child) verbalize correct understanding of underlying cause of hypertension.

√ Parents (and child) verbalize understanding of treatment plan for hypertension (specify, e.g., drugs, diet, etc.).

NOC: Knowledge: Treatment Regimen

INTERVENTIONS Assess knowledge of disease, causes and methods to control disease.	RATIONALES Provides baseline information.
Provide information and explanations in clear language; use pictures, pamphlets, video tapes, models in teaching about disorder, causes and risk factors.	Ensures understanding based on readiness, aids reinforce learning.
Instruct and assist in planning dietary menu that includes restrictions that help reduce BP (specify).	Weight reduction and restricted sodium, fat, and cholesterol intake may be part of the medical regimen.
Suggest activity and exercise plan specific to child's needs and interests (swimming, cycling).	Assists in weight reduction and contributes to lowering BP.
Teach relaxation techniques, such as breathing, biofeedback (specify).	Reduces stress that raises BP.
Reinforce importance of follow-up visits to physician.	Provides early detection of complication and evaluation therapy.
Discuss long-term nature of medical regimen and potential for cardiac, cerebral, and renal damage or complications that	Provides rationale for acceptance of long-term care.

result from htn. Refer to stress, weight reduction, nutritional or support groups or counseling as needed (specify). Provides specialized guidance if needed to ensure compliance and success.

NIC: Teaching: Disease Process

Evaluation

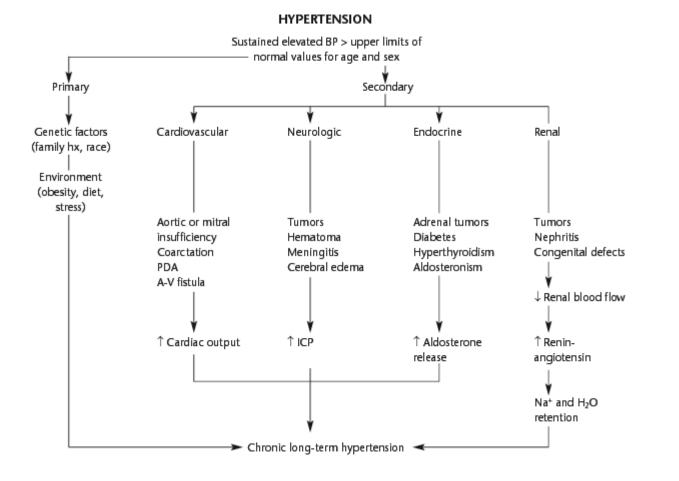
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify what parents/child said about understanding of the cause and treatment of the hypertension. Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HYPERTENSION



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CHAPTER 2.6 - KAWASAKI DISEASE

INTRODUCTION

Kawasaki Disease, or mucocutaneous lymph node syndrome, is an acute vasculitis of unknown cause. Most cases occur in children less than 5 years of age. The disease is self-limiting, but about 20% of those affected will develop cardiac sequelae (most commonly dilatation of the coronary arteries resulting in coronary aneurysms). The disease occurs in 3 phases: the acute phase is characterized by progressive inflammation of small blood vessels accompanied by high fever, inflammation of the pharynx, dry, reddened eyes, swollen hands and feet, rash, and cervical lymphadenopathy. In the subacute phase, the manifestations disappear, but there is inflammation of larger vessels and the child is at greatest risk for the development of coronary aneurysms. In the convalescent phase (6-8 weeks after onset), the clinical signs are resolved, but lab values are not completely normal. There are no diagnostic tests for Kawasaki disease, so the diagnosis is made on the basis of the child exhibiting at least 5 of 6 criterion manifestations.

MEDICAL CARE

Hgb/Hct: the child with KD is often anemic at the time of diagnosis.

WBC: may show leukocytosis with a "shift to the left" (increased immature white blood cells during the acute phase).

Sedimentation Rate: elevated, reflecting inflammation, and lasts 6 to 8 weeks.

Platelet Count: thrombocytosis and hypercoagulability occur in the subacute phase and gradually return to normal.

Liver Enzymes: usually elevated during the acute phase.

Echocardiogram: baseline and to monitor changes in myocardium and coronary arteries.

Gamma Globulin: IV gamma globulin is given during the first 10 days of the illness; usually given as a single dose of 2g/kg over 10 to 12 hours.

Aspirin (ASA): used for its anti-inflammatory and anticoagulant actions; given in large doses (80 to 100 mg/kg/day) while the child is febrile, and then 3 to 5 mg/kg/day until the platelet count returns to normal.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Inflammatory disease process.

Defining Characteristics: High fever (specify degrees, not responsive to antipyretics or antibiotics.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: decreased PO intake during uncomfortable acute phase, fluid losses through fever and increased metabolic rate.)

Defining Characteristics: (Specify, e.g., refusal to take PO fluids, oliguria, poor skin turgor, dry mucous membranes, weight loss, provide data.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Inflammatory process (dry mucous membranes, conjunctivitis, pharyngitis, fever, joint pain, swollen hands and feet).

Defining Characteristics: (Specify: crying, extreme irritability, refusal to play, cries when being touched or moved, increased rating on pain scale.)

Goal: Child will experience less pain by (date/time to evaluate).

Outcome Criteria

V (Specify, e.g., client is not crying, is playing, has relaxed facial features, allows touch, pain rating is less than before interventions [give number].)

NOC: Pain Control

INTERVENTIONS	RATIONALES
Assess level of pain by observation (crying, grimacing, vocal expressions of pain), using pain assessment scales, and by obtaining relevant pain information from parents about child's expression of pain.	Provides information upon which accurate assessments of pain and treatment effectiveness can be based.
Apply cool cloths to skin, lotion, and soft, loose clothing on child.	Decreases skin discomfort.
Apply lubricating lip ointments and glycerin swabs to the oral mucosa; offer cool liquids and soft foods. Keep child's room quiet and semidark.	Moistens dry oral mucosa to decrease discomfort and promote oral intake. Promotes rest; darkness
keep child 5 100m quiet and semidark.	decreases eye discomfort caused by conjunctivitis.
Disturb child as little as possible; when necessary, handle gently and avoid unnecessary handling.	Movement causes discomfort.
Administer IV gamma globulin and high dose ASA therapy as directed (specify doses, routes times).	Decreases inflammatory process and helps decrease fever.
Explain to parents reason for child's discomfort/irritability; ask parents for information on child's expression of pain.	Promotes understanding and cooperation; provides valuable assessment data.
Explain to parents that irritability may persist for up to 2 months; that peeling skin on hands and feet is normal and not painful.	Promotes understanding and allows parents to anticipate needs.

If child has joint pain, explain to parents that it may persist for several weeks; passive ROM exercises in a warm bath may help. Persistent joint pain is not uncommon; ROM with heat helps increase flexibility.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify: Is child crying? Describe activity of child; what is pain ranking? Use quotes if possible.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Acute, serious illness of unknown origin with possible cardiac sequelae.

Defining Characteristics: (Specify: verbalization of anxiety, use quotes.)

Goal: Client will experience decreased anxiety by (date/time).

Outcome Criteria

 \checkmark Parents verbalize decreased anxiety levels.

NOC: Anxiety Control

INTERVENTIONS

- Assess anxiety level of parents. Ask them to rank their anxiety on a scale from 1 to 5 with 1 being no anxiety.
- Encourage parents to express their feelings freely. Reassure parents that some anxiety is appropriate when their child is ill.
- Provide information about the disease (the unknown etiology, the disease phases and manifestations, diagnostic tests and treatments).
- Support parents in their efforts to comfort their irritable child; encourage them to "take a break" while the nurse cares for the child;

RATIONALES

- Assessment provides baseline information for the design of interventions.
- Encouragement and reassurance help the parents to identify and regain control of their emotions. Ensures understanding; the unknown
- etiology helps allay any guilt parents may have concerning the child contracting the disease. Provides support to parents during a stressful event.

reassure parents that irritability is a manifestation of Kawasaki disease and that they should not feel embarrassed or guilty. Monitor child closely during IV gamma globulin administration (temperature, pulse, BP). Stop the infusion and report immediately any signs of reaction (chills, fever, dyspnea, nausea/vomiting).	Gamma globulin is a blood product and requires the same close observation for safe administration to prevent a reaction; this reassures parents that their child is receiving appropriate care.
Explain to parents that touching the child may cause pain; demonstrate gentle handling of child as needed.	Provides information parents need to give comfort to their child.
Explain to parents that the child may have recurrent fever at home and demonstrate how to take the child's temperature and when to notify physician (temp. greater than 38.4° C/101° F).	Helps ensure child will receive needed care at home. Empowers the parent and decreases anxiety associated with uncertainty.
Demonstrate ASA administration to parents and instruct them to report any signs of toxicity (tinnitus, headache, dizziness, or confusion). Explain that ASA may cause easy bruising and that the ASA should be stopped and the physician	Helps ensure safe, proper administration of ASA at home. Empowers parents.
notified if child exposed to chickenpox or influenza (risk of Reye's syndrome).	
Assist parents to make any referral (specify) and follow-up appointments for child.	Assistance helps decrease anxiety.

NIC: Anticipatory Guidance

Evaluation

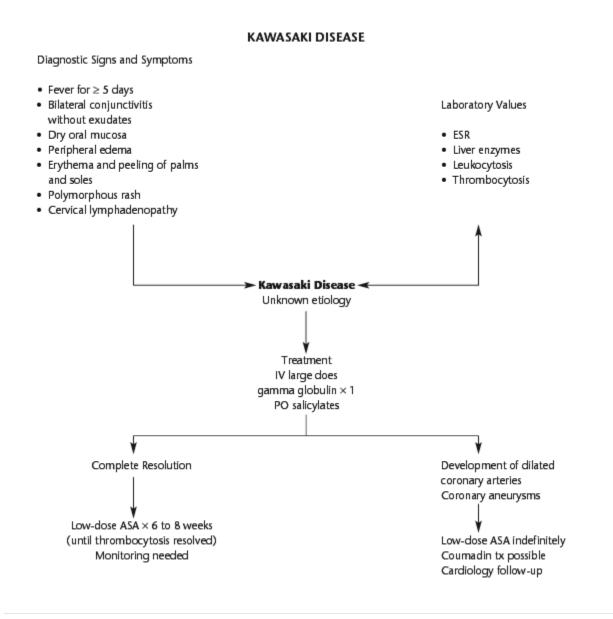
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents specify decreased levels of anxiety? Use quotes if possible.)

(Revisions to care plan? D/C care plan? Continue care plan?

FLOW CHART FOR KAWASAKI DISEASE



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CHAPTER 2.7 - ACUTE RHEUMATIC FEVER

INTRODUCTION

Acute rheumatic fever is an autoimmune disease responsible for cardiac valve disease or rheumatic heart disease. It is associated with infections caused by the group A streptococcus and occurs about 2 to 6 weeks following a streptococcal upper respiratory infection. It is prevented by adequate treatment of the infection with appropriate antibiotic therapy within 9 days of onset of streptococcal infection before further complications can occur. Because rheumatic heart disease does not occur after only one attack and children are susceptible to recurrent attacks of rheumatic fever, it is vital that an initial episode is diagnosed and treated, and that long-term prophylactic therapy (5 years or more) is given following the acute phase. There is no specific test for rheumatic fever; the diagnosis is based upon the manifestations using the revised Jones criteria as a guideline. Jones criteria consist of major manifestations (polyarthritis, carditis, chorea, subcutaneous nodules, and erythema marginatum) and minor manifestations (fever, arthralgia, ECG and laboratory changes). The presence of 2 major manifestations, or 1 major and 2 minor manifestations, supported by evidence of a preceding group a streptococcal infection is indicative of acute rheumatic fever.

MEDICAL CARE

Antibiotics: benzathine penicillin G IM, penicillin G potassium (Pentids solution), ampicillin (Amcill tablets, suspension or pediatric drops) PO or erythromycin (Ilosone tablets, chewables, suspension PO if penicillin-sensitive). Followed by: penicillin G benzathine (Bicillin) IM monthly or penicillin G potassium (Pentids) PO daily as long-term therapy.

Anti-inflammatory/Antipyretic/Analgesic: aspirin (acetylsalicylic acid tablets, suspension or liquid) PO to reduce temperature and reduce inflammatory process by inactivitating the enzyme required for prostaglandin synthesis, that contributes to inflammatory process.

Electrocardiogram: reveals prolonged P-R interval.

Antistreptolysin-O Titer: reveals increase 7 days after streptococcal infection with elevation above 330 Todd units, indicating recent infection.

Complete Blood Count: reveals increased WBC in presence of infectious process.

Erythrocyte Sedimentation Rate: reveals increase in presence of inflammatory process in rheumatoid disease.

C-reactive Protein: reveals increase during inflammatory process and may be done in place of ESR.

Throat Culture: reveals presence of streptococci, Group A.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Illness or inflammatory disease.

Defining Characteristics: (Low-grade increase in body temperature above normal range, temperature tends to spike in late afternoon, specify for child.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food because of anorexia, increased metabolic rate and/or chores (specify).

Defining Characteristics: (Specify: anorexia, fatigue, weight loss, abdominal pain, give figures.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Pain and discomfort.

Defining Characteristics: (Specify: verbalizes joint pain of polyarthritis.)

Related to: Neuromuscular impairment from chorea.

Defining Characteristics: Decreased muscle control and strength, clumsiness, uncoordination, sudden and aimless movement of extremities, bed rest protocol (describe activity).

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Inflammation, arthralgia.

Defining Characteristics: (Specify: verbal description of pain, use scale, guarding and protective behavior of painful joints, edema, redness, heat at affected joints.)

Goal: Child will experience less pain by (date/time to evaluate).

Outcome Criteria

 \checkmark Child verbalizes pain less than (specify) on scale of 1 to 10.

 \checkmark Child appears relaxed without guarding.

 \checkmark Joints are not swollen, red, or warm.

NOC: Pain Control

INTERVENTIONS

RATIONALES

Assess child's perception of pain using an appropriate scale (specify) q 2 to 3 hours. Assess behavior changes, such as crying, restlessness, refusal to move, irritability, aggressive or dependent behavior.

Nonverbal responses to pain that are age-related as child or infant may be unable to describe pain; fear and anxiety

Provides data about degree of pain the child is experiencing.

Assess severity of pain, joints involved, level of joint movement. Administer analgesic and antiinflammatory agents as ordered (specify drugs, dose, route, and times), and inform child that the medication will decrease the pain; administer a sustainedaction analgesic before bedtime or 1 hour before anticipated movement. Maintain bed rest during the acute stage of disease. Elevate affected extremities above level of heart. Change position q 2h while maintaining body alignment. Move gently and support body parts; minimize handling of affected parts as much as possible. Apply bed cradle under outside covers over painful parts. Provide toys, games for quiet, sedentary play (specify for child). Use nonpharmacologic measures to decrease pain (distraction, cutaneous stimulation, imagery, relaxation, heat application). Inform of limited activity or amount of joint movement allowed. Teach parents and child of need for analgesia and that it will help him/her to feel better. Reassure parents and child that joint involvement is temporary, that pain and edema will subside, and that joints will return to normal size.

Teach parents in body positioning and handling of affected parts. associated with pain causes changes in behavioral responses. Provides information regarding pathologic changes in joints; joint involvement is reversible, usually affecting large joints, such as knees, hips, wrists, and elbows; an increase in numbers of affected joints occurs over a period of time. Relieves pain, edema in joints

and promotes rest and comfort (action of drugs).

Promotes comfort and reduces
 joint pain caused by movement.
Promotes circulation to the heart
 to relieve edema.
Prevents contractures and
 promotes comfort.
Prevents additional pain to

affected parts.

Prevents pressure on painful joints. Provides diversionary activity to distract from pain.

Provides additional measures to decrease pain perception.

Prevents increase or exacerbation
 of pain.
Controls pain, and allows for
 uninterrupted sleep and
 activity within tolerance
 level.
Reduces anxiety associated with
 fear of permanent damage.

Promotes comfort and prevents pain and contractures while on

enforced bed rest.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify pain-rating on scale of 1 to 10; does child appear relaxed without guarding? Are joints not swollen, red, or warm? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Chronic recurrence of disease.

Defining Characteristics: None, as this is a potential diagnosis.

Goal: Child will not experience recurrence of infection.

Outcome Criteria

 \checkmark Absence of occurrence of reinfection.

 \checkmark Child is afebrile; no complaints of discomfort.

 \checkmark Child takes medications as ordered.

NOC: Risk Control

INTERVENTIONS

- Assess parents' ability to provide Long-ter long-term treatment with prescribed as 5 may b
 - administration or monthly intramuscular injections.

Assess for chest pain, dyspnea, cough, tachycardia during sleep, friction rub, gallop during acute stage of disease.

Administer antibiotic therapy during acute phase of disease as ordered (specify drugs, dose, route, and times).

RATIONALES

Long-term antibiotic therapy (as long as 5 years) as a preventive measure may be difficult.

Signs and symptoms of carditis, which may lead to endocarditis causing vegetation that becomes fibrous at the valve areas that is at increased risk with repeated infections. Inhibits cell wall synthesis of microorganisms, destroying causative agent.

4 of 7

Instruct in long-term antibiotic	Th
regimen, need for protection before	
dental work or any invasive	
procedure, and inform of importance	
to prevent recurrence.	

Teach to report to physician any upper respiratory infections, elevated temperature, joint pain, or inability to continue antibiotic therapy. Therapy starts after acute phase and medical supervision is needed for life as rheumatic fever may recur; a large percentage of children who have had the disease have heart disease later in life. May indicate recurrence of the disease or need to change or adjust medication.

NIC: Infection Protection

Evaluation

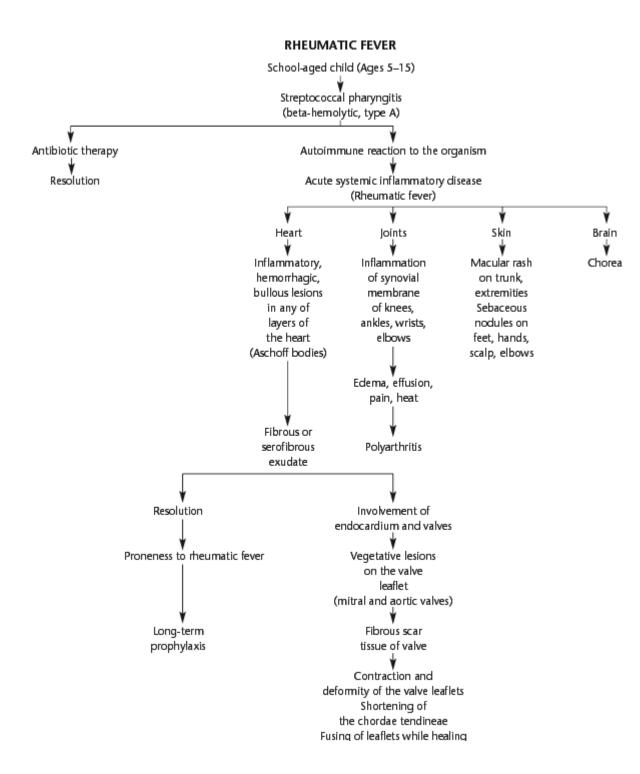
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is child's temperature? Does child complain of discomfort? Is child taking the medications as ordered?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR ACUTE RHEUMATIC FEVER



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UNIT 3 - RESPIRATORY SYSTEM

CHAPTER 3.0 - RESPIRATORY SYSTEM: BASIC CARE PLAN

INTRODUCTION

The respiratory tract is a common site of major and minor disorders in infants and children, and any alteration in respiratory structure or function has a profound effect on the ability to supply the body with oxygen and remove carbon dioxide. A constant supply of oxygen is necessary to sustain organ function and survival, and any decrease in or cessation, obstruction, and infection, can compromise airway patency and pattern. This in turn changes the respiratory rate and efficiency. This tendency gradually decreases after the age of five. Each stage of life and its associated changes resulting from growth and developmental patterns establish different pulmonary parameters and susceptibility to diseases. Although the system generally functions the same as in an adult, anatomic changes that occur with growth influence the way that the infant or child responds to acute or chronic illnesses related to this system.

GROWTH AND DEVELOPMENT

CHEST STRUCTURE AND BRONCHOPULMONARY MOVEMENT

• Chest shape and anteroposterior diameter:

Infant: rounded chest where diameter equals transverse diameter;

School-age: changes gradually to lateral diameter ratio of 1:2 or 5:7 as chest assumes a more flattened anteroposterior diameter with growth.

• Narrow, smaller lumen of airway system with increased airway resistance until age of five years.

• Ability to respond to irritating stimuli by age 4 to 5 months as smooth muscle develops in airways, gradually reaching smooth muscle development of an adult by age of one year.

• Glottis has more cephalad location in the infant than in the child; epiglottis is longer, and the narrowest part of the larynx located at the same level as the cricoid cartilage; larynx grows slowly during infancy and childhood, with a spurt of growth after childhood phase during preadolescence (voice change).

• Airways grow faster than cervical and thoracic spine, causing a descent of the larynx and trachea; the tracheal bifurcation gradually descends from opposite T3 in the infant to T4 by the end of the growth period, and the cricoid cartilage descends from C4 in the infant to C6 by the end of the growth period.

• Diaphragm in the infant is attached higher in front and is longer, causing a decreased ability to contract with the same force of an older infant or child.

• Lung growth changes from globular to lobular shape by 12 years of age.

• Lung growth produces an increase in alveoli numbers and size as septa in the alveoli develop, divide, and increase their numbers at each terminal

airway.

- Branching of terminal bronchioles is increased as alveoli are increased as the child grows.
- Collateral pathways develop between bronchioles and growth pores in alveolar walls during child's growth.

BREATHING PATTERN AND VENTILATORY FUNCTION

- Respiratory rate (ratio to pulse is 1:4)
- Infant: 30 to 60/minute
- Toddler: 25 to 40/minute
- Preschool: 22 to 34/minute
- School age: 18 to 30/minute
- Rate decreases as metabolic needs decrease.
- Respiratory depth (chest expansion)
- Infant: 2 to 4 inches
- Toddler: 4 to 6 inches
- Preschool: 6 to 8 inches
- School age: 9 to 10 inches
- Respiratory pattern:
- Infant: obligate nasal and diaphragmatic breathing during first year of life;
- School age: changes gradually from infancy through childhood to a more thoracic breathing for girls and a more abdominal breathing for boys—volume of inspired air increases as lungs grow in size, which results in a decreased amount of oxygen taken in and an increased amount of carbon dioxide expired.
- Increased surface area available for gas exchange as alveoli increase in numbers and size.
- Changes in compliance with age, from high compliance in the infant with a more pliant rib cage to gradually decreasing to normal compliance level; chest structure changes with growth.
- Arterial blood gas values:
- pH: 7.35 to 7.45

pO₂: 80 to 100 mm Hg (pressure of dissolved oxygen in the blood)

pCO₂: 35 to 45 mm Hg (pressure of dissolved carbon dioxide in the blood)

HCO₃: 22 to 28 mEq/L (bicarbonate level in the blood to reveal buffering effect on acid)

NURSING DIAGNOSES

INEFFECTIVE AIRWAY CLEARANCE

Related to: (Specify: tracheobronchial infection, obstruction, secretions.)

Defining Characteristics: (Specify, e.g., abnormal breath sounds: fine or coarse crackles, rhonchi, wheezes, changes in rate or depth of respirations, tachypnea, cyanosis, fever, provide data.)

Related to: Decreased energy and fatigue.

Defining Characteristics: (Specify, e.g., ineffective cough with or without sputum, labored respirations, inability to feed self, sleeplessness, lack of activity, weakness.)

Goal: Infant/child will experience improved airway clearance by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ Return of respiratory status to baseline parameters for rate, depth and ease (specify).

 \checkmark Breath sounds clear bilaterally.

 \checkmark Ability to cough up and remove secretions that are thin and clear.

NOC: Respiratory Status: Airway Patency, Ventilation

INTERVENTIONS

RATIONALES

Assess respirations for rate (count for one full minute), depth and ease, presence of tachypnea (specify), dyspnea and if it occurs during sleep or quiet time; note panting, nasal flaring, grunting, retracting, slowing, deep (hyperpnea) or shallow (hypopnea) breathing, stridor on inspiration, head bobbing during sleep (specify frequency).

Assess breath sounds by auscultation,

Reveals rate and type of respirations (baselines or deviations) that are related to age and size of the infant/child, changes that indicate obstruction and consolidation of airways and lungs resulting in a decrease in lung surface for gas diffusion, extreme changes in depth are abnormal, head bobbing indicates dyspnea in the infant and fatigue causing neck flexion, grunting indicates respiratory distress. Provides indication of patent airways consolidation by percussion and fremitus (specify when).

Assess skin color changes, distribution and duration of cyanosis (nail beds, skin, mucous membranes, circumoral) or pallor (specify frequency).

Assess cough (moist, dry, hacking, paroxysmal, brassy, or croupy): onset, duration, frequency, if occurs at night, during day, or during activity; mucus production: when produced, amount, color (clear, yellow, green), consistency (thick, tenacious, frothy); ability to expectorate or if swallowing secretions, stuffy nose or nasal drainage.

Elevate head of bed at least 30° for child and hold infant and young child in lap or in an upright position with head on shoulder; older child may sit up and rest head on a pillow on overbed table (specify); check child's position frequently to ensure child does not slide down in bed.

Reposition on sides q 2h; position child in proper body alignment.

Provide fluids at frequent intervals over 24-h time periods, specify amounts; encourage clear liquids, and avoid milk.

Provide for periods of rest by organizing procedures and care and disturbing infant/child as little as possible in acute stages of illness.

Perform postural drainage between meals using gravity, percussion, and

by auscultation, revealing crackles heard in the presence of secretions (fine and coarse), rhonchi (audible and palpable) in larger airway obstruction and wheezes in small bronchiolar narrowing (inspiration and expiration), diminished breath sounds in presence of decreased airflow and lung consolidation; indication of consolidation by presence of dullness on percussion and increased fremitus, decreased functional lung area by presence of tympany on percussion.

Reveals presence and degree of cyanosis, indicating an uneven distribution of gas and blood in the lungs, and alveolar hypoventilation resulting from airway obstruction, the weakness of muscles used in respiration or respiratory center depression.

Reveals characteristics of cough as an indication of a respiratory condition that may be produced by infection or inflammation; small and narrow airways of an infant/child and the difficulty to cough up secretions cause obstruction from the stasis of secretions, which lead to infection and change in respiratory status.

Positioning facilitates chest expansion and respiratory efficiency by reducing pressure of abdominal organs on diaphragm.

Prevents accumulation and pooling of secretions.

Maintains hydration status, and clear liquids liquefy and mobilize secretions; milk tends to thicken secretions.

Prevents unnecessary energy expenditure resulting in fatigue.

Promotes removal of secretions and sputum from airways; percussion and vibration unless contraindicated; hold infant on lap; support child with pillows. Teach parents. positioning. Assist to perform deep breathing and coughing exercises in child when in a relaxed position for postural drainage unless procedures are contraindicated; use incentive spirometer in older child, blowing up balloon, blowing bubbles, blowing a pinwheel or blowing cotton balls across the table in younger child (specify).

Suction nasal and/or oropharyngeal passages, if needed and appropriate, using correct catheter and method, amount of negative pressure, and time limits (specify); orotracheal with the administration of oxygen before and after suctioning if needed; use bulb syringe to suction mucus from infant's nose; catheter size is age dependent (specify), maximum negative pressure of 60 to 90 cm H₂O with time limit of 5 seconds for infant, and 90 to 110 cm H₂O with 5 second time limit for child.

Administer pain medications as ordered (specify drug, dose, route, and time); assess level of pain using appropriate pain assessment tools (specify).

Provide mouth care qid and after suctioning.

Provide toys, games for quiet play, and a quiet environment (specify).

Place airway maintenance equipment and supplies at bedside (resuscitation bag, oxygen and suction equipment, endotracheal tube, tracheostomy tube, and supplies).

Administer medications (mucolytics, bronchodilators, antibiotics, expectorants, decongestants, and/or antihistamines) orally, parenterally, via aerosol therapy with hand-held measured-dose inhaler, small volume nebulizer, IPPB according to physician order (provides specifics). vibration loosen and dislodge secretions, and gravity drains the airways and lung segments through Promotes deeper breathing by enlarging tracheobronchial tree and initiating cough reflex to remove secretions.

Removes secretions when cough is nonproductive (older child if unable to regulate cough or breathe through mouth); if nose obstructed by mucus (infant or young child); type of suctioning dependent on amount, ability to drain or cough up, breath sounds in upper airways; prolonged suctioning causes vagal stimulation, oxygen desaturation, and bradycardia, and the use of high pressure damages the mucous membrane lining of airways.

- Promotes comfort during deep breathing exercises and coughing to aid in the removal of secretions.
- Prevents drying of oral mucous membranes.
- Prevents excessive energy expenditure and need for additional oxygen consumption, which changes respiratory status while still providing moderate activity and diversion of play.
- Provides immediate access to emergency equipment for interventions to treat airway obstruction if needed.

(Specify drug action, e.g., treats conditions affecting secretions, infection by liquefying secretions and enhancing outflow and removal of secretions (mucolytics, expectorants), relieving bronchospasms (bronchodilators), destroying infectious agents by interfering with cell way synthesis

(antibiotics), reducing allergic responses and discomfort of nose stuffiness (decongestant, antihistamines), and by suppressing cough (cough suppressants) unless cough is desired to bring up secretions.) Prevents transmission of microorganisms from touching or handling supplies, touching face of child by parent(s)/ child without handwashing. Prevents transmission of microorganisms via airborne droplets. Maintains hydration. Promotes better tolerance than endurance exercises. Promotes saturation of inhaled air with moisture; exhaling underwater prolongs expiration and improves end expiratory pressures. Removes secretions in those too weak or unable to cough up secretions, removing mucus from nose of infant enhances breathing (obligate breather). Ensures compliance with correct drug dosage and other considerations for administrations for desired results. and what to do if side effects occur. Promotes proper administration and independence of child depending on age and ability.

- Instruct parents/child in handwashing
 techniques.
- Instruct parents/child to avoid contact with those who have respiratory infections.
- Inform parents of need to maintain or increase fluids, type of fluids to include and avoid, to offer small amounts (q 1h to infant and 50 to 100 ml to child q 2h) during waking hours using small cup or straw.

Teach the importance of physical exercise; activities with short burst of energy (baseball, sprinting, skiing) are recommended.

Recommend swimming as a form of physical exercise.

Teach parents to use bulb syringe to remove mucus from infant's nose, demonstrate and instruct in oropharyogeal suctioning if appropriate; allow return demonstration.

Teach parents and possibly older child (specify) administration of medications via proper route with name and action of each drug: dosage; why given; frequency; time of day or night; side effects to report; how to administer in food-crushed, chewable, by measured dropper, or other recommended form; and method (nose drops, inhaler).

Instruct parents and child to administer aerosols with use of hand-held inhaler, small volume nebulizer using oral or mask breathing apparatus; assembling of devices, cleaning and care of reusable supplies and equipment (specify). Delmar's Pediatric Nursing Care Plans - 3rd Ed. (2005)

NIC: Airway Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is respiratory rate, depth, and ease? Are breath sounds clear bilaterally? Is child able to cough, are secretions thin and clear?)

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process.

Defining Characteristics: (Specify: shortness of breath, tachypnea, fremitus.)

Related to: Decreased lung expansion.

Defining Characteristics: (Specify: apnea, dyspnea, respiratory depth changes.)

Related to: Tracheobronchial obstruction.

Defining Characteristics: (Specify: dyspnea, head bobbing in infant, drooling, tachypnea, abnormal arterial blood gases, cyanosis (skin, circumoral, mucous membranes), nasal flaring, respiratory depth changes, use of accessory muscles and retractions, altered chest excursion, prolonged expiratory phase, grunting, apnea during sleep, anxiety, air hunger, sitting up with mouth open to breathe, stridor on inspiration, persistent cough, throat edema.)

Goal: Infant/child will experience an effective breathing pattern by (date/time to evaluate).

Outcome Criteria

 \checkmark Return of respiratory status to baseline parameters for pattern rate, depth, and ease (specify).

 \checkmark Effective breathing effort and improved chest expansion.

NOC: Respiratory Status: Airway Patency, Ventilation

INTERVENTIONS

RATIONALES

Assess respirations for rate (count for	Reveals rate and type of respirations
one full minute), pattern, depth, and	(baselines or deviations) that are
ease; presence of tachypnea	related to age and size of the
(specify), dyspnea and use of	infant/child and presence of anxiety
accessory muscles and retractions	and disease processes, changes in
(intercostal, subcostal, substernal,	patterns indicate the acuteness of a
suprasternal), nasal flaring; note	condition and the respiratory

expiratory phase, chest expansion, periods of apnea, head bobbing in infant during sleep.

- Assess configuration of chest by palpation; auscultate for breath sounds that indicate a movement restriction (absent or diminished, crackles or rhonchi).
- Assess skin for pallor or cyanosis, distribution and duration of cyanosis (nail beds, skin, mucous membranes, circumoral).

Assess for cough, pain when coughing, characteristics of cough and sputum, ability to mobilize and bring up secretions when amounts increase.

Position with head elevated at least 30° or seated upright with head on pillows; position on side if more comfortable; tripod position for the child with epiglottitis; avoid tight clothing or bedding; for child with low muscle tone, use pillows and/or padding to maintain positioning. Perform deep breathing exercises and upper body exercises (isometric).

Assess child's pain and administer analgesics as prescribed (specify drug, dose, route, and time); use a pain assessment tool appropriate to the child's age (specify) and developmental level; assess and record child's response to pain control measures; provide ageappropriate diversional activities as tolerated (specify).

Pace activities and exercises, and allow for rest periods and energy conservation.

function that result from infection and obstruction; retractions that become severe are responses to a decrease in intrathoracic pressure that may extend to suprasternal area if lung consolidation is severe, nasal flaring occurs as the work of breathing increases, head bobbing occurs with dyspnea in infants.

- Reveals an increased anteroposterior ratio common in children with chronic respiratory disease that results from hyperexpansion of the airways.
- Reveals presence of hypoxemia causing cyanosis from an uneven distribution of gases and blood in the lungs, and alveolar hypoventilation caused by airway obstruction, weakness of muscles used in respirations.
- Cough is an indication of a respiratory condition and if excessive may cause chest pain and interfere with respirations, accumulation of mucus in airways affects respiration if obstruction is present.
- Facilitates chest expansion and respiratory efficiency by reducing pressure of abdominal organs on diaphragm; position of comfort is age-related and dependent on degree of dyspnea.

Strengthens intercostal and abdominal muscles, and diaphragm, which enhances breathing and prolongs expiratory phase. Promotes improved oxygenation.

Prevents changes in respiratory pattern brought about from exertion and fatigue. Monitor blood gas levels and provide supplemental oxygen via hood, tent, cannula, or face mask as needed if hypoxia results from inadequate breathing pattern and ventilation; if an infant is apneic, provide access at bedside at all times. Administer bronchodilators via oral, subcutaneous, or aerosol therapy; antibiotics, or sedatives (cautiously) via oral therapy if respiratory efficiency is not reduced; antiasthmatics and steroids via oral or aerosol therapy as ordered (specify). Assess family's responses to child's illness and/or hospitalization; utilize the principles of familycentered caregiving, which encourages the parents to participate in their child's illness within their comfort level. Teach parents and child in handwashing and when to perform; disposal of tissues; covering mouth and nose when coughing to avoid those with respiratory infections. Demonstrate and instruct to parents and child in possible positions for comfort and ventilation during activities and sleep. Inform parents and child of activity restrictions and to avoid any activities beyond tolerance and energy level. Instruct child in relaxation exercises, quiet play, and controlled breathing. Inform parents and child to avoid allergens, changes in environmental temperatures, humidity, and pollutants, effect of pets, dust, dirty filters, plant odors, and other irritants in the home. Teach parents about oxygen administration (correct rate and method specify) and safety measures (fire prevention). Instruct and demonstrate medication regimen to parents (and older child) and include route, dosage, time, action, what to expect, and how to

Maintains oxygen level in blood to maintain tissue and organ function, amount and type of oxygen administration dependent on hypoxia and changes in mentation.

Relieves bronchospasms that affect respirations (tachypnea, rhonchi), prevents or treats infection, promotes rest and reduces anxiety to enhance breathing; prevents asthmatic attack and reinforces body defenses against allergic reactions (action of drug). Parents know their child's behaviors, temperament, and reactions to previous illnesses and treatments better than the health care professionals; utilizing the parent's knowledge will promote understanding and improved caregiving. Prevents transmission of

microorganisms to child from inanimate objects or airborne droplets.

Facilitates ease of breathing.

Reduces potential dyspnea and fatigue.

Reduces anxiety in older child which increases respiratory rate. Prevents responses that change respiratory pattern.

Supplies oxygen when needed in a correct and safe manner.

Ensures accurate and safe administration for medications for optimal effect. administer according to form

administer according to form	
prescribed (specify).	
Teach parents to avoid giving child	Prevents any undesirable interactions
over-the-counter medications unless	with prescribed drugs.
advised by physician.	
Instruct parents in disinfection, care	Reduces potential for infection and
of reusable supplies, and care of	preserves equipment and supplies for
equipment used to administer	long-term use.
medications.	
(Teach and demonstrate use of apnea	Provides alert system for parents to
monitor to parents (application,	monitor changes in respirations and
setting, alarms, electric source) and	heart rate of infant with apnea
how to perform cardiopulmonary	episodes.
resuscitation on infant if needed).	

NIC: Airway Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is respiratory rate, depth, and ease? Are breath sounds clear bilaterally? Is child able to cough, are secretions thin and clear?)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED GAS EXCHANGE

Related to: Ventilation perfusion imbalance.

Defining Characteristics: (Specify: ABGs.)

Goal: Child will experience improved gas exchange by (date/time to evaluate).

Outcome Criteria

 \checkmark Arterial blood gases within normal ranges for age (specify).

NOC: Respiratory Status: Gas Exchange

INTERVENTIONS

Assess respiratory rate, depth, and ease, (count for one minute), presence of dyspnea, tachypnea, chest movement, periods of apnea (specify frequency).

RATIONALES

Reveals respiratory effort, rate and depth (baselines or deviations), symmetry of movements, and use of accessory muscles, which affect the amount of air that reaches the alveoli for ventilation process and Monitor SaO₂ continuously with pulse oximeter alarms turned on (specify if using TCM to obtain TcPaO₂ and TcPaCO₂ levels). Assess ABGs for pH, PaO₂, PaCO₂ as obtained. Observe nail beds, circumoral area, and mucous membranes for development of cyanosis.

- Assess for changes in consciousness and activity, presence of irritability and restlessness.
- Place child in semi- or high Fowler's
 position; orthopenic position for
 older child unless contraindicated
 (specify).
- Administer humidified oxygen via hood (infant), tent (young child), cannula, or face mask (older child) at rate prescribed, and adjust according to blood gas levels (specify).
- Provide sedation for restlessness, irritability as ordered unless respirations are depressed (specify drug, dose, route, and times).
- Observe for early stages of hypoxemia and effects on nervous system (mood changes, anxiety, confusion), circulatory system (tachycardia, hypertension), respiratory system (altered depth and pattern, dyspnea, retractions, grunting, prolonged expiration), gastrointestinal system (anorexia).
- Discuss disease process, causes, signs and symptoms with parents and child appropriate to age.
- Explain all procedures and use of equipment to parents and child appropriate to age.
- Teach and demonstrate oxygen administration showing correct device to deliver O_2 , amount to deliver,

diffusion of oxygen (external respiration). Reveals status of hypoxemia and hypercapnia and potential for respiratory failure: cyanosis in children results from hypoventilation or an uneven distribution of gas and circulation through the lungs, usually caused by disease and breathing abnormalities; gas levels provide the basis for oxygen administration adjustment, need for position change; continuous monitoring by oximetry or transcutaneous electrode reduces need for arterial punctures to determine hypoxemia and hypercapnia.

- Reveals hypoxic state as oxygen level in blood reduces, causing decrease of oxygen to brain.
- Promotes chest expansion and ease of breathing, gas distribution, and pulmonary blood flow, all of which enhance gas exchange.
- Ensures adequate oxygen intake to maintain desired level; a PO₂ of less than 60 mm Hg and PCO₂ of more than 50 to 55 mm Hg may indicate need for repositioning, stimulation, suctioning, or ventilator support.
- Promotes rest and ease of respiratory effort to support ventilation, especially if anxiety present (action of drug).
- Promotes careful evaluation of early signs and symptoms of insufficient alveolar ventilation and prevention of respiratory failure or arrest.
- Provides information about reason for how to control symptoms and promote general health.
- Reduces anxiety, which reduces oxygen requirements in the child.
- Maintains oxygen levels with amounts given, preventing hypoxia as well as oxygen, toxicity methods and amounts

frequency, type of oxygen system, safety factors to parents; allow for return demonstration.	vary with age and condition of infant/child.
Instruct and demonstrate use of apnea monitor to parents; allow for return demonstration of application, setting, alarms, power source, inform of when and how to respond to changes in respiration and heart rate.	Alerts parents to presence of prolonged periods of apnea in infant in order to prevent hypoxia and possible death.
Teach parents of respiratory signs and symptoms that must be reported indicating blood gas imbalance: fatigue, mental confusion, increasing dyspnea and tachypnea.	Assessing and reporting prevents potential for hypoxemia, hypercapnia, and more serious complications of respiratory failure.

NIC: Respiratory Monitoring

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What are ABG values?)

(Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 3.1 - APNEA

INTRODUCTION

Apnea in the infant is the periodic absence of breathing for more than 15 seconds in the full-term or more than 20 seconds in the preterm infant. It may be associated with gastroesophageal reflux, seizures, sepsis or the impairment of breathing during sleep in the infant, although it is not uncommon to find no apparent causative factor. Apnea occurs during infancy and is usually resolved by one year of age without resulting in the death of the infant. The apparent life-threatening event (ALTE) that is indicative of apnea is not considered a cause of SIDS (sudden infant death syndrome), although the infant with apnea is at slightly higher risk. Both apnea and high-risk SIDS infants may be monitored by an apnea-monitoring device as a preventive measure.

MEDICAL CARE

Apnea Monitor: a device attached to the infant by electrodes placed on a belt that is wrapped around the infant's chest; alarms sound when respiratory or heart rate changes occur that are more or less than the rates set revealing apneic episodes.

Oxygen Therapy: treats hypoxia during apneic periods.

Chest X-ray: reveals respiratory infection if present.

Electrocardiogram: reveals presence of arrhythmias caused by bradycardia associated with apnea.

Electroencephalogram: reveals changes associated with seizures.

Pneumocardiogram: reveals cardiorespiratory patterns of heart and breathing rates, nasal airflow, and oxygen saturation.

Polysomnography: measures brain waves, eye movement, esophageal manometry, and end-tidal CO₂ levels during sleep.

pH Probe Study: 24-hour measurements of pH from a probe in the esophagus to reveal reflux.

Upper Gastrointestinal X-ray: reveals reflux associated with apnea.

Arterial Blood Gases: monitors respiratory function for pO₂ and pCO₂ changes resulting from abnormal ventilatory drive.

Methylxanthines: a drug used to stimulate respiration; theophyline or caffeine.

Metoclopramine (Cisapride): drug used to increase emptying a duodenum and tone of esophageal sphincter.

Nasal CPAP: continuous positive airway pressure may be used for preterm-birth apnea thought to be related to collapse of airway.

COMMON NURSING DIAGNOSES

See INEFFECTIVE BREATHING PATTERN

Related to: Impaired regulation.

Defining Characteristics: (Specify: respiratory depth changes, apnea during sleep, cyanosis, abnormal arterial blood gases.

See IMPAIRED GAS EXCHANGE

Related to: Ventilation perfusion imbalance.

Defining Characteristics: (Specify: preterm birth, hypoxia, apnea, bradycardia, hypercapnia, pallor.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food because of biologic factors.

Defining Characteristics: Choking and gasping during feeding, apneic or cyanotic episodes, reflux.

ADDITIONAL NURSING DIAGNOSES

RISK FOR ALTERED PARENTING

Related to: (Specify, e.g., adolescent parent.)

Defining Characteristics: Verbalization of role inadequacy, inappropriate caretaking behaviors (use of apnea monitoring device, cardiopulmonary resuscitation), request for information about care of infant and parenting skills (specify).

Goal: Parents will demonstrate necessary skills for caring for their child by (date/time to evaluate).

Outcome Criteria

 \checkmark Verbalized readiness to deal with apneic episodes of infant.

 \checkmark Demonstrates correct application and operation of apnea monitor.

 \checkmark Becomes proficient at infant cardiopulmonary resuscitation (CPR).

NOC: Role Performance

INTERVENTIONS

RATIONALES

Assess history of apn	ea, life-	Reveals risk factors associated with
threatening event o	f infant, SIDS of	condition as basis for further
siblings or cousins		evaluation.
Assess for presence o	f apneic or	Identifies apneic episodes of more
cyanotic episodes,	bradycardia,	than 15 seconds in preterm or more
upper respiratory i	nfection, poor	than 20 seconds in full-term
feeding with chokin	g during	infant, associated factors, or
feedings.		potential for SIDS and need for

Assess parents' ability to participate in apnea monitoring and/or CPR as an intervention in event of episode.

- Encourage and allow parents to express feelings about unmet needs and ability to meet and develop selfexpectations.
- Encourage touching and play activities between parents and infant.
- Provide calm, supportive and positive environment; encourage and praise positive parental behaviors.
- Provide written and/or pictorial instructions for parents of step-bystep procedures for apnea monitoring and resuscitation.
- Demonstrate for parents, and allow for return demonstration, attaching electrodes to belt and monitor, applying belt to infant's chest, setting monitor, testing monitor alarms, turning monitor on, removal and care of monitor after use (add details).

Teach parents safety issues of home apnea monitoring: remove leads from infant when not attached to monitor; unplug power cord when cord is not plugged into monitor; use safety covers on electrical outlets to discourage siblings from inserting other objects.

Demonstrate for parents and allow for return demonstration of CPR on infant model; instruct both parents and a family member in assessment of infant and need for CPR, correct mouth-to-mouth and cardiac compression techniques; supply written and pictorial instructions or booklet for review.

Instruct parents to notify electric company and nearest 911 unit that monitor is being used; provide monitoring.

- Fear and anxiety common to parents of apneic infant; feelings of guilt and inadequacy, fear of death of child presents obstacle to learning and interventions necessary for child's survival.
- Identifies potential for isolation and social deprivation of mother, strategies to achieve realistic expectations.
- Enhances bonding process and positive parental behaviors.
- Reduces anxiety for enhanced learning of infant care procedures.

Provides reference as reinforcement of learning.

Apnea monitor may be prescribed by physician for use in home for apneic and "near-miss" infants, although use is controversial; monitors cardiac and respiratory activity with an alarm system that wakes parents when rates are not within prescribed boundaries; electrodes, lead wires, and cable pick up on breathing and heart activity signals and limit apnea time by sounding alarm. Prevent electrical accidents related

to home monitor.

CPR done to resuscitate infant with cessation of breathing and presence of cyanosis.

Provides for emergency services if and when needed, including alternate electric sources.

telephone numbers for emergency services and instruct to keep near phone. Instruct other significant family members (grandparents) and support	Promotes positive coping as parents can lessen continuous
persons as to care for the child with a home monitor, including CPR (specify).	responsibility of home apnea monitoring.
Provide praise and support for parents as they learn to use the monitor and develop skill in CPR.	Positive reinforcement and support help the parents develop new parenting skills and feel confident in their abilities as parents.
Explain the difference between apnea and SIDS.	Parental perception of the relationship between these conditions is often the basis for their fear of child's possible survival.
Instruct parents to place healthy infants on their back during sleep; avoid soft surfaces and soft objects (pillows) in the sleep environment.	Decreases the risk of SIDS, according to research; the American Academy of Pediatrics recommends that healthy infants be placed on their backs to sleep. Infants placed on their sides may roll to the prone position.
Suggest referral to home care agency, contact with family members and friends, other support services (specify).	Provides range of support and assistance, which helps to reduce anxiety and promote social activities.

NIC: Role Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize readiness to handle apnea? Provide quotes. Did parents demonstrate correct application of apnea monitor? Are parents proficient at infant CPR?)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: Situational crisis.

Defining Characteristics: (Specify: family expresses concern and fear about infant's apnea episodes, displays protective behavior disproportionate to infant's need to grow and develop, describes a preoccupation with monitoring of infant apnea, chronic anxiety.)

Goal: Family will demonstrate adequate coping by (date/time to evaluate).

Outcome Criteria

 \checkmark Family members are able to express feelings and needs to each other.

 \checkmark Family members identify three healthy coping mechanisms.

NOC: Family Coping

INTERVENTIONS

RATIONALES

INTERVENTIOND	INTIONALED
Assess family anxiety level, erratic behaviors (anger, tension, disorganization) perception of crisis situation.	Identifies information affecting ability of family to cope with infant apnea and monitoring.
Assess family coping methods used and perceived effectiveness.	Identifies need to develop new coping skills if existing methods are ineffective in changing exhibited behaviors.
Encourage expression of feelings and provide factual information about infant apnea.	Reduces anxiety and enhances family's understanding of condition.
Assist family to identify and use 3 techniques to cope with and solve problems and gain control over the situation (specify suggestions).	Provides support for problem solving and management of situation.
Reinforce appropriate coping behaviors.	Promote behavior change and adaptation to care of infant during apnea.
Suggest to parents that over- protective behaviors may hinder growth and development during infancy.	Enhances family understanding of condition and adverse effects of behaviors.
Reinforce need to maintain health of family members and social contacts.	Provides information about chronic anxiety, fatigue, and isolation as result of infant care and about their effects on health and care capabilities of family.

NIC: Family Integrity Promotion

Evaluation

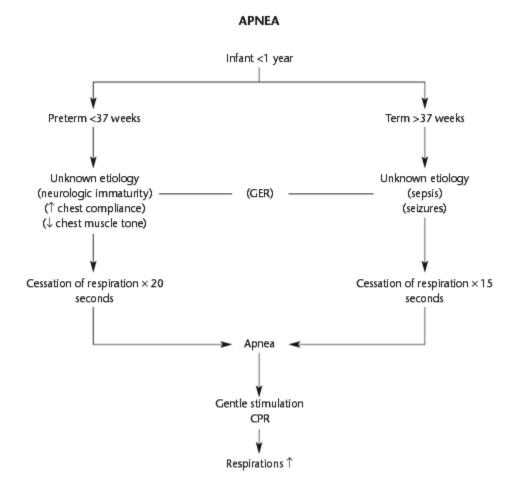
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did family members express feelings and needs to each other? Specify. Which three healthy coping mechanisms did family members identify?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR APNEA



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CHAPTER 3.2 - ASTHMA

INTRODUCTION

Asthma in children is a reversible airway-reactive disease characterized by bronchospasm, increased mucus production, and edema of the mucosa of the bronchioles. The result is obstruction, air trapping, and respiratory distress. Asthma is the leading chronic disorder in children. Most children experience their first attacks between 2 and 7 years of age with the onset of the most severe cases occurring after the age of 7. The onset of an attack may be gradual or immediate; continuous, with wheezing present at all times; or spasmodic, with intermittent attacks separated by intervals without symptoms. As an attack progresses, alveoli that are hyperinflated and poorly ventilated may lead to impaired gas exchange, hypoxemia, hypercapnia, and eventual respiratory acidosis and failure. The two types of asthma are extrinsic (immune mechanisms) and intrinsic (imbalance in the autonomic nervous system), both of which affect the bronchial tissue and mast cell function that produce the characteristics symptoms of the disease. Status asthmaticus is an acute condition characterized by an asthma attack that fails to respond to treatment and continues and increases in severity. It requires hospitalization of the child.

MEDICAL CARE

Preventive Medications: cromolyn sodium (Intel), PO or inhalation for children >5 years old: an NSAID that inhibits release of bronchoconstrictors from mast cells; beta-adrenergic agonists: PO, (albuterol, terbutaline) or inhaled (salmetrol) as prophylaxis for exercise-induced asthma.

Rescue Medications: corticosteroids: IV or possibly PO for short-term use to I inflammation and I airway obstruction; beta-adrenergic agonists: PO, IV (albuterol, terbutaline) or inhaled (salmetrol); methylxanthines (theophylline) PO, IV not usually used because of side effects and narrow margin of safety (toxicity at serum level >20 g/mL).

Antibiotics: given PO or IV specific to organism identified in culture and in sensitivity test of sputum.

Oxygen Therapy: treats hypoxemia as indicated by ABGs and is administered by tent, cannula, or face mask; use is usually reserved for status asthmaticus.

Chest X-ray: may reveal hyperinflation, infiltrates, or other pulmonary conditions such as atelectasis or pneumonia.

Pulmonary Function Testing; spirometry, peak expiratory flow rate (PEFR) compared with child's personal best flow rate. Measured in green (80-100% of personal best), yellow (50-80%), and red zones (<50% of personal best).

Sputum Culture: reveals large numbers of eosinophils and crystalloid fragments.

Arterial Blood Gases: reveals decreased pH, decreased pO₂, and increased pCO₂ as attack continues and ventilation perfusion imbalance occurs.

Complete Blood Count: reveals increased WBC if infection present, increased eosinophils in differential count of more than 5%, increased Hgb and Hct.

Skin Tests: done by scratch or intradermal to identify specific allergens for hypersensitization injection therapy for an older child.

Provocative Inhalation Test: reveals specific allergens and level that precipitates symptoms.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial obstruction, secretions.

Defining Characteristics: (Specify: dyspnea; tachypnea; cough with or without sputum; uncontrollable cough that is hacking and paroxysmal, becomes rattling, and produces a clear, frothy sputum; abnormal breath sounds [wheezing on expiration and inspiration, fine and coarse crackles]; circumoral and nail bed cyanosis; fever; assuming orthopneic position.)

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process, tracheobronchial obstruction, anxiety.

Defining Characteristics: (Specify: dyspnea, tachypnea, cough, nasal flaring, prolonged expiratory phase, intercostal and suprasternal retractions in infant, hyperresonance on percussion, shallow and irregular respirations, barrel chest configuration, abnormal ABGs, cyanosis, anxiety, restlessness, apprehension, speaks in short, broken phrases or unable to speak.)

See IMPAIRED GAS EXCHANGE

Related to: Ventilation perfusion imbalance.

Defining Characteristics: (Specify: restlessness, irritability, hypoxemia, hypercapnia, confusion, somnolence.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: I intake.

Defining Characteristics: (Specify: difficulty in drinking during panting, tachypnea, and dyspnea; thirst; dry skin and mucous membranes; diaphoresis; insensible loss.)

See SLEEP PATTERN DISTURBANCE

Related to: Interrupted sleep.

Defining Characteristics: (Specify: dyspnea, tachypnea, irritability, restlessness, inability to remain in prone or supine positions.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Chronic illness.

Defining Characteristics: (Specify: anorexia, nausea, vomiting, weight loss, dyspnea and tachypnea preventing intake of food.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Threat of or change in health status (specify).

Defining Characteristics: (Specify: increased apprehension, fear with asthma attack, change in respiratory status, exposure to known or unknown allergens, tension and uncertainty about possible hospitalization for acute attack.)

Goal: Client will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Child verbalizes decreased anxiety.

 \checkmark Child uses breathing exercises and relaxation techniques.

NOC: Anxiety Control

INTERVENTIONS	RATIONALES
Assess level of anxiety before, during, and after attack.	Provides information about anxiety level of child and parents as respirations become more difficult and fear of suffocation is present, and about fear of subsequent attacks.
Provide calm, supportive, and nonjudgmental environment, especially during an attack.	Reduces anxiety and calming effect allows and eases respirations for improved ventilation.
Allow parents and child to express fears and concerns and to ask questions about disease and what to expect.	Provides opportunity to vent feelings and secure information to reduce anxiety, especially if they know how to prevent or reduce frequency of attacks.
Prepare parents and child before all procedures and treatment.	Relieves anxiety caused by fear of unknown.
Stay with child during acute attack.	Provides comfort and support to the child.
Encourage quiet play and avoid any emotional stress. difficulty or may initiate an acute attack.	Provides distractions from changes in breathing pattern and prevents emotional upsets, that increase respiratory
If hospitalized, allow open visitation, and telephoning; encourage parents to stay with child if possible, to bring toy or blanket from home, and to maintain home schedules for sleep, feeding, play as appropriate.	Relieves anxiety for parents and child when familiar people and routines are available.

- Explain to parents and child the reason for and what to expect before and/or during attack; use drawings, pictures, models, and video tapes for child.
- Inform parents and child of the reversibility of the disease, how the medications and treatment resolve the attack.
- Clarify any misinformation and answer all questions honestly in simple understandable language for the parents and child.
- Instruct parents and child in environmental control and exercise limitations.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did child verbalize decreased anxiety? Use quotes. Did child engage in breathing and relaxation exercises?)

anxiety.

suffocation.

(Revisions to care plan? D/C care plan? Continue care plan?)

ACTIVITY INTOLERANCE

Related to: (Specify: respiratory problem, fatigue.)

Defining Characteristics: (Specify: prolonged dyspnea from asthma attack; lethargy; exhausted appearance, inability to eat, speak, play.)

Promotes understanding of what is

Reduces anxiety caused by fear of

Prevents unnecessary anxiety that

Provides anticipatory teaching that

assists parents and child in

results from inaccurate

information or beliefs.

preventing attacks.

happening during attack and the

possible causes in order to allay

Goal: Child will experience increased tolerance for activity by (date and time to evaluate).

Outcome Criteria

 \checkmark Child participates in usual activities (specify).

 \checkmark Child verbalizes feeling less fatigued (specify).

NOC: Activity Tolerance

INTERVENTIONS Assess presence of weakness and fatigue caused by respiratory

RATIONALES Provides information about energy reserves as dyspnea and

4 of 11

changes.	work of breathing over period of time exhausts these reserves.
Schedule and provide rest periods in a quiet environment.	Promotes adequate rest and reduces stimuli.
Disturb only when necessary, perform all care at one time instead of spreading over a long period of time, avoid performing any care or procedures during an attack.	Conserves energy and prevents interruption in rest.
Provide for quiet play, reading, TV, games while at rest.	Prevents alteration in respiratory status and energy depletion caused by excessive activity.
Explain reason for need to conserve energy and avoid fatigue to parents and child.	Promotes understanding of effect of activity on breathing and need for rest to prevent fatigue.
Instruct in planning a schedule for bathing, feeding, rest that will conserve energy and prevent attack or promote resolution of an attack.	Provides care while promoting activities of daily care.
Inform of activity or exercise restrictions if these trigger attack; suggest medically approved activities (swimming, bicycling).	Provides preventive measures to offset possible attack.

NIC: Energy Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe activities in which child participated. Use quotes for child's verbalization of energy level)

(Revisions to care plan? D/C care plan? Continue care plan?)

HEALTH-SEEKING BEHAVIORS: PREVENTION OF ASTHMA ATTACK

Related to: Desire for information of preventive measures and behavior changes.

Defining Characteristics: (Specify: expressed desire for increased control of health practices and effect of current environmental conditions and behaviors on health status, increased frequency of attacks use quotes.)

Goal: Clients will obtain information about asthma.

Outcome Criteria

 \sqrt{P} Parents (and child if age-appropriate) verbalize understanding of triggering agents and prevention measures for asthma attacks.

NOC: Knowledge: Health Promotion

INTERVENTIONS

RATIONALES

INTERVENTIONS	RATIONALES
Assess for knowledge of factors related to attacks, past history of respiratory infections and measures taken to maintain health of child. Assess for use of over-the-counter	Provides basis for informati needed for health maintena respiratory changes or inf can trigger an asthma atta Identifies whether products
medications, type used and effects.	available for treatment of respiratory diseases shoul should not be used, as the interact with prescribed medications, causing attac become more severe.
Assess health history of allergies in family members, what does or does not precipitate attack, and what behaviors result from the attack.	Identifies familial tendency airway reactive disease or history of allergic rhinit eczema, urticaria.
Teach parents/child handwashing technique, allow for demonstration.	Prevents transmission of microorganisms from touchi handling supplies, touchin of child by parents or chi without handwash.
Instruct child to avoid contact with those who have respiratory infections, how to cover mouth and nose when coughing or sneezing, and to dispose of tissues.	Prevents transmission of microorganisms by airborne droplets.
Teach parents and child about physiology and signs and symptoms of the disease and possible precipitating factors influencing an attack (specify).	Provides information that wi enhance performance of pre measures and compliance to medical regimen.
Discuss with parents and child the signs and symptoms indicating the onset of an attack (change in respirations, wheezing, dyspnea).	Teach actions to be taken to prevent a severe attack an to notify physician.
Instruct child to avoid excessive activity, stressful situations.	Provides information on how avoid situations that may an attack.
Teach parents of effect of allergens and how to avoid exposure to offending environmental factors (cold air, humidity, air pollution, sprays, plants).	Reduces exposure to factors precipitate an attack.
Suggest to percents estions to shape	Dedugos expessive to fasters

Suggest to parents actions to change home environment to reduce dust,

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ind when

to provoke that

Reduces exposure to factors that precipitate an attack.

exposure to pets and indoor plants, changing of filters, avoidance of foods (yellow dye), drugs (aspirin).	
Teach child breathing exercises and controlled breathing and relaxation.	Prevents attack before it begins and increases ventilation.
Teach parents and child about medication administration as ordered (specify drug, dose, route, and times to be given) and how to manage method of administration; advise to avoid over-the-counter drugs without physician advice.	Promotes compliance in order to prevent attack and maintain wellness (action of drug).
<pre>Inform parents of skin testing for sensitivities to allergens. Suggest community agencies to contact for information and support.</pre>	Identifies allergies for hypersensitization regimen. Offers support to families with child suffering from asthma.

NIC: Health Education

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents/child verbalize understanding of triggering agents and prevention measures for asthma attacks? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

INTERRUPTED FAMILY PROCESSES

Related to: (Ill child.)

Defining Characteristics: (Specify: parental stress, which may result in parental dysfunction; stress may be manifested by excessive worry, withdrawal, denial, difficulty in making child-rearing decisions, overprotectiveness; alterations in the parent-child relationship which may hinder adjustment and decrease parent's ability to maximize child's growth and development potential.)

Goal: Family will resume supportive interaction by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize feelings and concerns related to the implications of the disease on the entire family.

 \checkmark Family demonstrates acceptance, adjustment, and coping behaviors related to the symptoms and effects of asthma.

NOC: Family Coping

INTERVENTIONS

Provide an opportunity for the family
 to adjust to the diagnosis;
 anticipate the normal grief reaction
 of "loss of the perfect child."
Explore the family's feelings regarding
 the child and the diagnosis.

Assist the family to explore specific feelings regarding: guilt, anger, disappointment, irritation, and fear; discuss with parents their fears: dealing with the child's anxiety, fear of complications, fear of death, fear of tests and procedures, fear of treatments, and the child's potential inability to feel "normal" as compared to peers; help family to identify realistic and unrealistic fears.

- Assess the family's coping skills and resources.
- Foster positive family relationships; serve as a role model regarding attitudes and behaviors towards the child.
- Assess interpersonal relationships within the family and support systems, with emphasis on the family's relationship with the child diagnosed with asthma; intervene appropriately with evidence of maladaptation; refer to counseling if appropriate (specify).

Provide support to the family; assess family's support systems and encourage their appropriate use; refer to community agencies and support groups, as applicable (specify).

- Assess siblings and peers at intervals, as appropriate, providing time for questions and feelings.
- Provide information to the family regarding the disorder, treatments,

RATIONALES

skills.

Reaction may occur in the early adjustment phase, after the diagnosis of a chronic disease, depending on the severity. Indicators of family-related psychologic stress often are obtained during open discussions as part of a history-taking; family stressors, if found early, can be the focus of preventive services to promote adaptation. Validates the normalcy of their feelings which promotes stress reduction and positive coping

Promotes reinforcement of positive coping skills. Promotes the family's ability to cope in a positive manner.

Promotes early identification of interpersonal problems, especially within the parentchild relationship.

Promotes positive adaptation within the family.

Promotes positive relationships within siblings and peers, which can be altered by chronic illness that requires increased parental attention, and so forth. Promotes a sense of control and alleviates stress; reinforcement

and implications; reinforce all information given; provide accurate information, paced at a rate appropriate for the family (specify).	and individualizing the approach promotes better understanding.
Encourage family in methods to promote the child's physical, psychological, and cognitive development, based on child's current developmental level (specify).	Provides parents accurate information on growth and development.
Assist family in the development and implementation of a home plan of care, utilizing age-appropriate goals consistent with activity tolerance.	Provides for an optimal level of care at home; parental input into that plan of care may serve to increase compliance and foster positive adaptation.
Explain to child/family the possible benefits of hyposensitization therapy where allergies cannot be avoided, as applicable.	Prevents potential asthma exacerbation when allergen induced.
Teach child and family correct use of metered dose inhaler, nebulizer, and peak flow meter; emphasize understanding of equipment usage, cleaning, and strategies for compliance.	Prevents and/or minimizes asthma exacerbation by early identification.
<pre>Instruct child and family on preventive treatment when applicable (specify, i.e., prevention of exercise-induced asthma can be accomplished by use of certain medications prophylactically).</pre>	Prevents and/or minimizes asthma exacerbations.
Encourage child and family to engage in good health practices, such as balanced nutritional diet, adequate rest, good hygiene, and follow-up care.	Promotes the body's own natural defenses.
Reinforce methods to prevent infections: good handwashing, cleaning and care of equipment used, and avoidance of exposures.	Prevention of infection may minimize asthma exacerbations.
Review with parents the signs of depression, especially in the adolescent; make appropriate referrals as needed (specify).	Promotes timely communication between parent and healthcare provider if concerns arise.

NIC: Family Integrity Promotion

Evaluation

(Date/time of evaluation of goal)

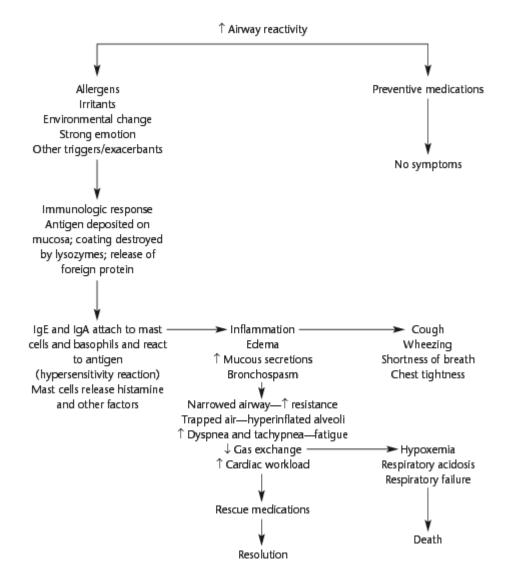
(Has goal been met? Not met? Partially met?)

(Did parents verbalize feelings and concerns? Provide quotes. Did family demonstrate acceptance, adjustment, and coping behaviors? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR ASTHMA

ASTHMA



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CHAPTER 3.3 - BRONCHIOLITIS

INTRODUCTION

Bronchiolitis is an acute viral inflammation of the lower respiratory tract involving the bronchioles and alveoli. Accumulated thick mucus, exudate, and cellular debris and the mucosal edema from the inflammatory process obstruct the smaller airways (bronchioles). This causes a reduction in expiration, air trapping, and hyperinflation of the alveoli. The obstruction interferes with gas exchange, and in severe cases causes hypoxemia and hypercapnia, which can lead to respiratory acidosis. Children in a debilitated state who experience this disorder with other serious diseases are hospitalized.

MEDICAL CARE

Prevention: synagis IM monthly or RespiGam IV × 3 to 4 hours monthly. Drugs are reserved for high-risk infants (preterm, immune-compromised, <2 years old with chronic lung disease) during RSV season only.

Antipyretics: acetaminophen (Tylenol tablets, Pedric wafers or elixir, Liquiprin drops) PO to reduce fever. Ibuprofen (nonsteroidal anti-inflammatory) for children 6 months to 12 years; Motrin or Advil liquid suspension or tablets PO to reduce fever and inflammation.

Antivirals: ribavirin (Vilena, Viramid) via aerosol inhalation (hood, tent, or mask) during first 3 days of illness to prevent replication of the syncytial virus; controversial, usually reserved for use in those with or at risk for severe illnesses or complications.

Chest X-ray: reveals hyperinflation, atelectasis and areas of collapse, flattened diaphragm indicating air trapping; areas of consolidation may need differentiation from pneumonia.

Nasal/Nasopharyngeal Culture: reveals respiratory synctial virus by enzyme-linked immunosorbent assay method.

Arterial Blood Gases: reveals decreased pH, pO₂ under 60 mm Hg, pCO₂ over 45 mm Hg, indicating respiratory compromise and potential failure.

Complete Blood Count: reveals increased WBC, indicating infectious process.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial infection, obstruction, secretions.

Defining Characteristics: (Specify: abnormal breath sounds [diminished or absent, crackles, wheezes]; audible and palpable rhonchi; hyperresonance; change in rate and depth of respirations; tachypnea (50-80/min); paroxysmal, nonproductive, and harsh, hacking cough; dyspnea and shallow respiratory excursion; fever; increased mucus and nasal discharge.)

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process, tracheobronchial obstruction.

Defining Characteristics: (Specify: dyspnea, tachypnea, cough, nasal flaring, shallow respiratory excursion, suprasternal and subcostal retractions, abnormal ABGs.)

See IMPAIRED GAS EXCHANGE

Related to: Ventilation perfusion imbalance.

Defining Characteristics: (Specify: hypoxia, hypercapnia, irritability, restlessness, fatigue, inability to move secretions.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food because of fatigue.

Defining Characteristics: (Specify: dyspnea, fatigue, and weakness, causing difficulty in feeding, anorexia, weight loss.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses, altered fluid intake.

Defining Characteristics: (Specify: increased temperature, dry skin and mucous membranes, poor turgor.)

See HYPERTHERMIA

Related to: Respiratory infection.

Defining Characteristics (Specify: low-grade, moderate fever; give data, malaise.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: change in health status of infant or small child, threat of or actual hospitalization of infant/small child.)

Defining Characteristics: (Specify: increased apprehension that condition might worsen; expressed concern and worry about impending hospitalization, need for treatment such as mist tent, IV therapy while hospitalized.)

Goal: Clients will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Client verbalizes decreased anxiety.

 \checkmark Client appears relaxed.

NOC: Anxiety Control

INTERVENTIONS

Assess source and level of anxiety, how anxiety is manifested, and need for information that will relieve anxiety.

Allow expression of concerns and opportunity to ask questions about condition and recovery of ill infant/small child.

Communicate openly with parents and answer questions calmly and honestly.

Encourage parents to remain calm and involved in care and decisionmaking regarding infant/small child noting any improvement that results.

Encourage parents to stay with infant/small child or allow open visitation and telephoning, have parents assist in care (holding, feeding, diapering) and suggest routines and methods of treatment.

Teach parents about disease process and physical effects and symptoms of disease.

Explain reason for each procedure or type of therapy, effects of any diagnostic tests to parents (specify).

Clarify any misinformation and answer questions in lay terms when parents are able to listen, give same explanation other staff and/or physician gave regarding disease process and transmission.

RATIONALES

- Provides information about anxiety level and the need for interventions to relieve it; sources of anxiety may include fear and uncertainty about treatment and recovery, guilt for presence of illness, possible loss of parental role, and loss of responsibility if hospitalized. Provides opportunity to vent feelings, and to secure information needed to reduce anxiety. Promotes calm and supportive environment.
- Promotes constant monitoring of infant/small child for improvement or worsening of symptoms.

Allows parents to care for and support infant/small child; absence and wondering about condition of infant/small child may increase anxiety.

Provides information to relieve anxiety by informing parents of what to expect. Prevents anxiety by reducing fear of unknown.

Prevents unnecessary anxiety resulting from inaccurate knowledge or beliefs, or inconsistencies in information.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize decreased anxiety? Use quotes. Do parents appear more relaxed? Describe appearance contrasted to initial assessment of tension.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FATIGUE

Related to: Respiratory effort.

Defining Characteristics: (Specify: lethargy or listlessness, emotional liability or irritability, exhausted appearance, inability to eat, limpness.)

Goal: Infant/child will experience increased energy level by (date/time to evaluate)

Outcome Criteria

 \checkmark Infant/child is able to eat, drink, and play quietly.

NOC: Activity Tolerance

INTERVENTIONS

RATIONALES

INTERVENTIONS	
Assess for extreme weakness and fatigue; ability to rest, sleep, and amount; movement in bed.	Provides information to determine effects of dyspnea and work of breathing over period of time, which becomes exhaustive and depletes infant/small child energy reserves and ability to rest, eat, drink.
Disturb infant/small child only when necessary, perform all care at one time instead of spreading over a long period of time.	Conserves energy and prevents interruptions in rest.
Schedule and provide rest periods in a quiet, comfortable environment (temperature and humidity). Allow quiet play with familiar toy	Promotes adequate rest and reduces stimuli in order to decrease risk for fatigue. Rest decreases fatigue and
while maintaining bed rest.	respiratory distress; quiet play prevents excessive activity, that depletes energy and increases respirations.
Encourage parents to use measures to prevent fatigue in infant/small child (holding and/or rocking, feeding in small amounts, playing with child, offering diversions such as TV, toys).	Provides support to infant/small child and conserves energy.
Teach parents to pick up infant/ small child if crying longer than	Prevents fatigue, as prolonged crying is exhaustive.

1 to 2 minutes.

Assist parents to develop a plan to Prevents interruption in rest and provide feeding, bathing, changing sleep. diaper around rest periods.

NIC: Energy Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about child's eating and drinking including amounts taken. Describe child's play activity.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE: RSV

Related to: Lack of information about respiratory syncytial virus.

Defining Characteristics: Parents verbalize lack of understanding about RSV.

Goal: Parents will obtain knowledge about RSV.

Outcome Criteria

 \checkmark Parents verbalize methods of prevention and treatment of RSV.

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

Assess existing knowledge of disease prevention, transmission, and treatment. Teach that the virus is transmitted by direct and indirect contact via the nose and eyes, and that hands should

Teach good handwashing technique for child and family members.

be kept away from these areas.

Suggest that plastic goggles may be worn when caring for infant/small child. Provides baseline for type of information needed to prevent infection transmission to child. Explains that kissing and cuddling infant/small child, and fomites that are on hard, smooth surfaces are sources of contact with the virus. Prevents transmission by the hands, which are the main sources of contamination and carriers of organisms to the face area. Prevents risk of contact with virus via the eyes.

- Teach of potential for spread of virus to other family members and need for segregation of infant/small child from others.
- If hospitalized, adhere to infection control policies for clients with RSV (specify).
- Teach parents about the administration of medications prescribed (specify).

Teach parents on the signs and symptoms of respiratory distress and infection, including fever, dyspnea, tachypnea, and expectoration of yellow/green sputum.

Encourage parents to provide good nutrition and hydration, emphasizing a high-calorie balanced diet and increased fluids (specify amounts).

Encourage and teach parents to provide care for the hospitalized child at a level they are comfortable with and within the constraints of necessary treatments. Teach parents about the prophylactic drugs (if ordered) of RespiGam or Synagis (specify)

- These drugs are given to highrisk infants only during the RSV season to prevent RSV infection of compromised infants.
- RespiGam is RSV immune globulin that is administered once a month during RSV season by IV infusion lasting several hours. The drug interferes with vaccine effectiveness.
- Synagis is a synthetic monoclonal antibody that is administered IM once a month during RSV season. The drug does not interfere with vaccines. It is very expensive.

(Instruct parents regarding the drug Ribavirin if used during hospitalization:

- Side effects
- Type and purposes of isolation, including use of masks, gloves, and/or gowns as applicable (specify)
- Precautions utilized for parents, staff, and visitors, including

Explains that virus is easily transmitted, with an incidence as high as half of family members acquiring viral infections. Protects from exposure to secretions and transmission of virus to other patients. Improves consistency of medication administration and the recognition of adverse side effects.

Encourages parents to seek prompt medical attention, as needed.

Promotes liquification of secretions and replaces calories used to fight infection, thereby boosting the child's own natural body defense.

Promotes parental identity and control; may lessen anxiety and stress.

Promotes understanding which may lessen anxiety; prevents accidental exposures to the drug.

information regarding potential risks of environmental exposure; advise pregnant women not to	
directly care for child; decrease	
potential exposure by temporarily	
stop-ping the aerosols when tent/	
hood is opened and administer drug	
in well-ventilated rooms (at least 6	
air exchanges per hour)	
 Strict handwashing before and after 	
leaving the child's room)	
Teach family members about the	Prevent the transmission of the
appropriate disposal of soiled	disease.
tissues, and so forth.	
Instruct parents on the importance of	Prevent transmission of the
limiting the number of visitors and	disease to others; prevent
screening them for recent illness.	further complications in the
	child with RSV.

NIC: Parent Education

Evaluation

(Date/time of evaluation of goal)

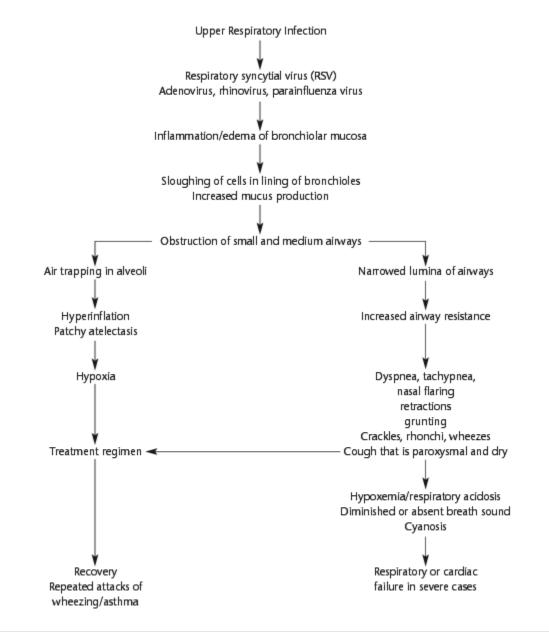
(Has goal been met? Not met? Partially met?)

(Did parents verbalize methods of prevention and treatment of RSV? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR BRONCHIOLITIS





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CHAPTER 3.4 - BRONCHOPULMONARY DYSPLASIA

INTRODUCTION

Bronchopulmonary dysplasia (BPD) is a chronic lung condition most common in infants that were preterm or small for gestational age (SGA) at birth. It is characterized by varying degrees of lung damage past the age of 1 month. BPD is caused by the use of assistive ventilation with the administration of high concentrations of oxygen to treat respiratory distress syndrome (RDS) or other serious disorders of the neonate. The lung and airway damage affects pulmonary function which leads to oxygen dependence, abnormal ABGs, and chest findings on X-ray examination, as well as susceptibility to pulmonary infections resulting in frequent and/or lengthy hospitalizations. BPD may resolve by the time the child is 3 to 4 years of age.

MEDICAL CARE

Prevention: prenatal glucocorticoid therapy given to mothers expected to deliver premature infants, and exogenous surfactant replacement therapy at birth.

Bronchodialators: albuterol, terbutaline, theophylline to relax bronchial smooth muscle.

Antimicrobials: cefaclor, amoxicillin, ampicillin sodium, carbenicillin disodium, vancomycin, third generation cephalosporins or other antibiotics to treat infection based on culture results and severity of infection.

Diuretics: furosemide, spironolactone to promote fluid removal and excretion which will reduce edema if heart failure present.

Cardiac Glycosides: digitalis to increase force and strength of heart contractions if heart failure or pulmonary hypertension present.

Corticosteroids: dexamethasone given to decrease the inflammation of the lung tissue.

Oxygen Therapy: treats hypoxemia as indicated by ABGs or transcutaneous O₂ monitoring or oximetry; oxygen level delivered varies according to severity of disease, per nasal cannula or endotracheal tube.

Pulmonary Toilet: chest physiotherapy, postural drainage, and suction timed to allow maximum rest for the infant.

Chest X-ray: reveals bilateral infiltration, with areas of hyperaeration and cystic areas at base of lungs as disease progresses; "whiteout" and consolidation visible if condition worsens or increases in healing tissue visible if improving.

Serial Echocardiograms: reveal right ventricular hypertrophy and possible failure.

Pulmonary Function: reveals prolonged ratio between inspiratory and expiratory phases.

Throat/Tracheal Cultures: reveal and identify infectious agent and sensitivity to specific antimicrobial treatment if infection present.

Arterial Blood Gases: reveal hypoxemic state by decreases in pO_2 of less than 55 to 60 mm Hg and increases in pCO_2 of more than 45 to 65 mm Hg which determine oxygen administration adjustments based on chronic hypoxemia associated with this condition; increased HCO₃ in presence of respiratory failure (chronic or acute).

Electrolyte Panel: reveals hypokalemia if diuretics given, calcium and phosphorus deficits if nutrition inadequate.

Complete Blood Count: reveals increased WBC if infection is present.

COMMON NURSING DIAGNOSES

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process.

Defining Characteristics: (Specify: dyspnea, tachypnea, use of accessory muscles, increased anteroposterior diameter, abnormal ABGs, cyanosis, recurrent wheezing, crackles and presence of respiratory infections [bronchitis, bronchiolitis, pneumonia].)

See IMPAIRED GAS EXCHANGE

Related to: Tissue damage.

Defining Characteristics: (Specify: hypoxemia, hypercapnia, restlessness, confusion, irritability, somnolence.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: hypoxia during feeding, poor feeder, decreased weight gain, increased energy/metabolic need for work of breathing, altered physical growth.)

See EXCESS FLUID VOLUME

Related to: Compromised regulatory mechanisms (presence of right heart failure).

Defining Characteristics: (Specify: edema, pulmonary effusion, weight gain, dyspnea, crackles, change in respiratory pattern, pulmonary congestion.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Separation from significant others.

Defining Characteristics: (Specify: frequent or prolonged hospitalizations.)

Related to: Environmental and stimulation deficiencies.

Defining Characteristics: (Specify: isolation, listlessness, decreased responses.)

Related to: Effects of physical disability/chronic illness.

Defining Characteristics: (Specify: delay or difficulty in performing motor, mental, social skills typical of age group.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INFECTION

Related to: Chronic respiratory disease.

Defining Characteristics: (Specify: reduced ciliary activity, lung damage, decreased lung capacity and accessory muscles' inability to move secretions, increased temperature, yellow or green sputum in increased amounts, diminished breath sounds; presence of respiratory and suction of family membranes.)

Goal: Infant will not experience a respiratory infection by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ Temperature <101° F, clear respiratory secretions, breath sounds consistent for infant (specify).

 \checkmark Behavior is consistent for infant.

NOC: Risk Control

INTERVENTIONS

RATTONALES

Assess for change in breathing pattern, color of mucus, rise in temperature, diminished breath sounds; presence of respiratory infection of family members.	Indicates presence or potential for infection, which may be life threatening in infants with this disease.
Avoid exposure to persons with respiratory infections; isolate from infectious patients.	Infants have a low respiratory reserve and are prone to infection transmission from others.
Utilize and teach good handwashing technique before giving care to infant.	Prevents transmission of microorganisms to infant.
Remove secretions by CP and PD and suctioning via sterile technique as needed.	Stasis of secretions provide medium for infection.
Obtain sputum for culture as needed.	Identifies presence of pathogenic organisms.
Teach parents about infant's susceptibility to infection and to avoid contact with anyone with a respiratory infection.	Any illness, even a minor one will compromise the infant's respiratory status.
Reinforce to parents to maintain an environment free of smoke,	Avoids irritation of airways that might increase risk of

sprays, or other irritating substances.	infection.
Encourage parents to provide adequate fluid and nutritional intake.	Maintains fluid and nutritional requirements of infant to provide adequate defenses.
Refer parents for cardiopulmonary resuscitation (CPR) class.	Provides anticipatory knowledge to perform life-saving measure if needed.
Teach parents of need to have periodic X-rays and laboratory tests.	Monitors progress of disease.
Instruct parents to report any changes in mucus or respiratory distress to physician.	Provides for immediate interventions, if needed, to control infection.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Are respiratory secretions clear? Describe. Describe breath sounds and infant behavior and compare to usual parameters.)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: (Specify, e.g., prolonged disease that exhausts supportive capacity of significant people; lack of coping skills.)

Defining Characteristics: (Specify: preoccupation of significant persons with anxiety, guilt, fear regardless of infant/child illness; display of protective behaviors by significant persons that are disproportionate to infant/child needs (too much or too little), frequent hospitalizations, prolonged hospitalization.)

Goal: Family will improve coping skills by (date/time to evaluate).

Outcome Criteria

 \checkmark Family expresses major stressors accompanying infant's illness.

 \checkmark Family identifies 3 coping mechanisms/support systems they can use.

NOC: Family Coping

INTERVENTIONSRATIONALESAssess anxiety, fear, erratic
behavior, perception of crisisProvides information affecting
family ability to cope with

situation by family members. Assist family to discuss coping methods used and effectiveness.

Encourage expression of feelings and questions in accepting, nonjudgmental environment.

Encourage family involvement in care during and after hospitalization.

Allow for open visitation, encourage telephone calls to hospital by family members.

Provide place for family members to rest, freshen up.

Suggest social worker referral as needed (specify).

Give positive feedback and praise family efforts in developing coping and problem-solving techniques and caring for infant.

Suggest and reinforce appropriate coping behaviors (provide examples).

Reinforce need to maintain health of family members and emotional status of parents.

Provide information regarding infant's condition and progress, oxygen dependence needs, and reason for care and medications.

Suggest that assistance may be secured by telephoning hospital after discharge.

Arrange education about cardiopulmonary resuscitation (CPR), oxygen administration, and safety measures to eliminate fire hazards.

work and need to develop new coping skills. Reduces anxiety and enhances family's understanding of infant's condition. Provides for reduction of anxiety and fear of equipment used in care. Encourages bonding and assists in coping with infant/child hospitalization if family unable to stay. Promotes comfort of family. Provides support and resources for financial or infant/child care relief. Encourages parents and family to participate in care and gain some control over the situation. Promotes behavior change and adaptation to care of infant with oxygen dependence. Chronic anxiety, fatique will

infant/child prolonged illness.

Identifies coping methods that

Chronic anxiety, fatigue will affect health and care capabilities of family. Reduces anxiety of parents and family and anticipates need for knowledge about disease and care.

Provides family with resource in crisis situation.

Empowers family to manage emergency situation and maintain safe oxygen administration.

NIC: Family Integrity Promotion

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What stressors did the family identify? List at least three coping mechanisms or support systems the family plans to use.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISORGANIZED INFANT BEHAVIOR

Related to: Environmental stimulation.

Defining Characteristics: (Specify, e.g., alterations in heart rate, respirations, color changes, erratic body movements, difficulty with feedings or prolonged periods of wakefulness.

Goal: Infant will display increased organization of behavior by (date/time to evaluate).

Outcome Criteria

 \checkmark Infant demonstrates quiet alert state and ability to habituate to environmental stimuli.

 \checkmark Color changes with handling and movement are decreased.

 \checkmark Demonstrates smoother transitions between sleeping and waking (specify how to measure).

NOC: Child Development: Infant

INTERVENTIONS

Assess behavioral states of the infant including: periods of quiet and active sleep, habituation, orientation, and self-consoling ability.

Introduce one caregiving intervention at a time, observing responses; allow for "time out" if infant displays stress signals, such as finger splaying, grimacing, tongue extension, worried alertness, spitting up, back arching, gaze aversion, yawning, hiccuping, color changes, or changes in cardiac or respiratory functioning.

Cluster caregiving, while not overstimulating infant; continuously monitor infant for signs of stress during caregiving, providing rest periods as needed.

Remain at bedside after procedures/ caregiving to assess infant's

RATIONALES

Assessment provides information about the infant's unique abilities to cope with environmental stimulation. Allows planning of individualized supportive care. Prevents overstimulation and further maladaptation to the environment.

Promotes longer periods of alert and/ or deep sleep which will enhance the body's own natural defenses; providing rest periods will allow infant to recover prior to initiation of additional caregiving; prevents sudden disruptions in sleep; promotes stability and adaptive behaviors. Prevents or minimizes maladaptive responses which often occurs up to response; if maladaptive responses
occur, use "time-out" to allow infant
to adapt.
Alter physical environment by decreasing

light and sound. physiological functioning.

Facilitate handling by providing containment: holding infant's arms and legs in a flexed position, close to their midline using the caregiver's hands and/or positioning aids such as rolled blankets; premature or ill infants should be positioned prone or side-lying, maintaining soft flexion.

Place the infant in a flexed position with hands to midline, or swaddled with hands free; providing pacifier and/or fingers to suck on; providing objects to encourage hand grasping such as blankets, tubing, and fingers during caregiving.

Provide a primary care team to work collaboratively with the parents in developing an individualized plan of care reviewed daily and discussed at intervals with the parents.

Provide individualized feeding support determined by the infant's own needs and strengths; feeding focus should be positive and pleasurable, with attention to infant's cues or signals.

Provide optimal level of family support through utilization of family centered caregiving principles: enhanced parental involvement in all aspects of caregiving and decision-making; promote family comfort with homelike environment.

Assist parents in learning their infant's signals or cues and interpreting them appropriately.

Instruct and encourage parents in caregiving activities throughout the NICU stay, at a level parents are comfortable with (specify).

Teach and assist parents in promoting infant adaptive behaviors through use of containment, swaddling, promotion and maintenance of flexion, non20 minutes after caregiving is completed.

Prevents or decreases maladaptive
 behaviors; both light and sound
 levels in the NICU have been
 implicated in interfering with
 sleep and stable
Promotes flexion and stabilizes
 infant's motor and physiologic

systems.

Promotes self-consoling/soothing behaviors which facilitate organization and adaptive behaviors.

Promotes element of trust for both the infant and family, improving parent-infant relationships; allows caregivers to identify infant's behavioral cues. Promotes positive feeding

experiences, that facilitate weight gain and feeding competency.

Promotes feelings of belonging and control which enhances parentinfant relationship.

Promotes positive parenting role and minimizes infant's maladaptive behaviors, promoting improved longterm growth and development. Promotes improved parental

confidence, enhances parenting skills, and improves parent-infant relationship/interactions.

Promotes positive adaptive behaviors in the infant and increases parental participation and feelings of control.

nutritive sucking, and finger grasping. Encourage parents to personalize infant bed space by bringing in clothes, blankets to be used over isolettes/ cribs, and pictures from home. Teach and encourage parental participation in Kangaroo care or skin-to-skin holding when infant is medically stable; this method is accomplished by placing infant on parent's chest under their clothing. Support parents in making the difficult transition from hospital to home; allow ample time for teaching and communication of needs and feelings; validate feelings of anxiety as

normal; give brief and accurate information, with time for clarification and provide supplemental written materials; allow parents permission to be in control of decisions and maintain structure in their own lives; discuss feelings of anger and guilt openly; adapt teaching and communication techniques to different family styles, customs, and cultures.

NIC: Developmental Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did infant demonstrate quiet alert state and ability to habituate to environmental stimuli? Describe. Were color changes with handling and movement decreased? How was this measured? Did infant demonstrate smoother transitions between sleeping and waking? How was the change measured?)

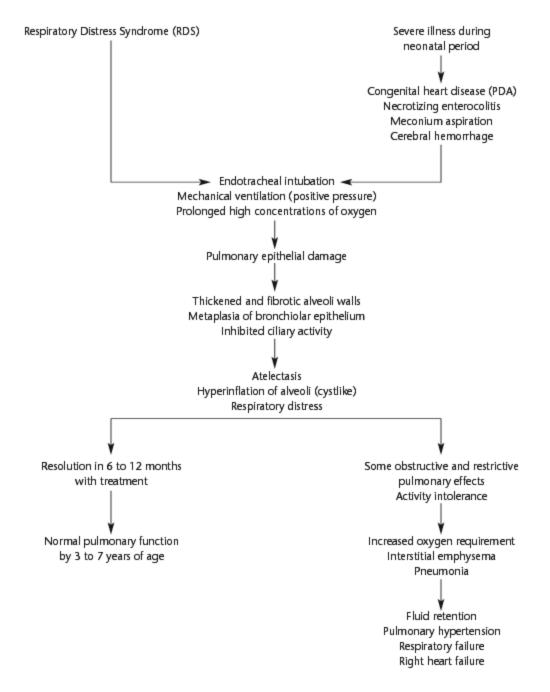
(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR BRONCHOPULMONARY DYSPLASIA

Promotes positive parental identity and feelings of control. Decreases NICU stimulation.

Promotes stable physiologic functioning, maintains thermoregulation, improves quiet/ alert sleep periods, improves weight gain, promotes positive parent/infant relationship and improves parental confidence. Promotes feelings of control and mastery through education and open communication; this will enhance the parent-infant relationship and foster the child's growth and development.

BRONCHOPULMONARY DYSPLASIA



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CHAPTER 3.5 - CYSTIC FIBROSIS

INTRODUCTION

Cystic fibrosis (mucoviscidosis) is the most common life-shortening hereditary illness in children. It is an autosomal-recessive trait disorder affecting the exocrine glands. The disease produces abnormal ion transport in epithelial tissues, which results in dehydration of secretions causing mucus to become thick and tenacious and causing mechanical obstruction in ducts and glands. Organs affected are the pancreas, small intestine, liver, lungs, and reproductive organs. Severity of the disease varies. Although an increased survival rate has been evident in recent years, death is the final result as progressive pulmonary complications occur and create a serious threat to the child's life. Children with cystic fibrosis and their families are continuously faced with the daily implementation of a medical regimen that may deplete their physical, emotional, and financial resources. As the disease is chronic, hospitalization may be frequent.

MEDICAL CARE

Bronchodilators/Adrenergic Agonists: via nebulizer, or hand-held inhalator to relieve bronchospasms and facilitate removal of pulmonary secretions by bronchial dilatation and smooth muscle relaxation.

Mucolytics: acetylcysteine (Mucomyst) used in the nebulizing solution for mist tent, face mask to liquefy mucus; recombinant human deoxyribonuclease (Pulmozyme) used as an aerosolized medication to decrease the viscosity of mucus.

Vitamins: if liver involved, vitamin A, D, E, and K given as replacement in water-miscible preparations.

Pancreatic Enzymes: given to replace enzyme deficiency in powder, granules, packet, or tablet form to assist in digestion and bowel elimination.

Antibiotics: selection dependent on identification and sensitivity to organism revealed by culture, whether therapy is prophylactic, and term of treatment.

Oxygen Therapy: continuous, low-volume oxygen administered with caution for acute respiratory distress.

Pulmonary Toilet: chest PT and postural drainage and aerobic exercise enhances movement of secretions.

Chest X-ray: reveals patchy areas of atelectasis and generalized obstructive emphysema, with later infiltratives and dissemination of bronchopneumonia evident.

Pulmonary Function: reveals severity of lung involvement and general condition.

Iontophoresis of Pilocarpine Sweat Test: reveals sweat chloride content greater than 60 mEq/L, obtained by electrode stimulation of the sweat glands and measurement of the chloride content in the laboratory, is the most definitive test for cystic fibrosis.

Stool Test: reveals fecal fat (steatorrhea) in a 5-day stool collection specimen and calculated to determine impaired fat absorption.

Alanine Aminotransferase (ALT)/Aspartate Aminotransferase (AST): reveals elevation of these enzymes in liver damage.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial secretions and obstruction.

Defining Characteristics: (Specify: dyspnea; tachypnea; increasing amount of thick, tenacious sputum; nonproductive cough; wheezy respirations with expiratory obstruction.)

See INEFFECTIVE BREATHING PATTERN

Related to: Tracheobronchial obstruction; decreased energy and fatigue.

Defining Characteristics: (Specify: dyspnea, tachypnea, cough, increased anteroposterior diameter (barrel chest), cyanosis, prolonged expiratory phase, finger and toe clubbing with continued ventilatory impairment.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to digest food or absorb nutrients.

Defining Characteristics: (Specify: reduced weight gain; failure to thrive; weight loss with adequate food intake and increased appetite; vomiting; thin and wasted appearance of extremities and buttocks; absence of pancreatic enzymes, causing increased amount of stool; foul-smelling loosely formed bulky stools; steatorrhea, prolapse of the rectum.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal routes.

Defining Characteristics: Tachypnea, vomiting, diarrhea, profuse sweating, loss of sodium and chloride.

See DECREASED CARDIAC OUTPUT

Related to: Electrical factors.

Defining Characteristics: (Specify: dysrhythmias; ECG changes; variations in hemodynamic readings [VS and BP]; dyspnea; pale, cold, clammy skin; cyanosis; edema; complication of heart failure.)

See DISTURBED SLEEP PATTERN

Related to: Interrupted sleep.

Defining Characteristics: (Specify: cough, dyspnea, fatigue, increasing irritability, restlessness, lethargy, listlessness, average number of hours.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Bed rest.

Defining Characteristics: (Specify: disruption of skin surface, redness or rash on genitalia and buttocks, redness and irritation at bony prominences; describe.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of physical illness and disability.

Defining Characteristics: (Specify: altered physical growth, delay or difficulty in performing motor, social skills typical of age group; describe.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR ACTIVITY INTOLERANCE

Related to: Deconditioned status.

Defining Characteristics: (Specify: weakness, fatigue, inability to participate in self-care, physical and social activities.)

Related to: Respiratory problems.

Defining Characteristics: (Specify: dyspnea, tachypnea, exertional discomfort.)

Goal: Infant/child will maintain usual activity levels by (date/time to evaluate).

Outcome Criteria

 \checkmark Infant/child engages in activities (specify) without fatigue or respiratory distress.

NOC: Energy Conservation

INTERVENTIONS

RATIONALES

Schedule care and provide rest periods in a quiet environment. Disturb only when necessary for care and procedures; provide quiet play appropriate for age (specify), interests, and energy level.

Perform respiratory physiotherapy
 (specify when); avoid treatment
 before or after meals.
Assist to perform breathing

Provides information about energy reserves as dyspnea and work of breathing over period of time exhausts these reserves.
Promotes adequate rest and reduces stimuli.
Conserves energy and prevents interruption in rest; prevents alteration in respiratory status and energy depletion caused by excessive activity.
Reduces work while promoting effectiveness of breathing.

Improves ventilation and

exercises. Explain to parents and child the reasons for need to conserve energy and to rest to avoid fatigue.	strengthens chest muscles. Promotes understanding of effect of activity on breathing and importance of rest to prevent fatigue.
Discuss with parents and child any activity or exercise restrictions, how to engage in activities without tiring or affecting respiratory status; discuss types of activities child enjoys.	Measures to prevent fatigue while engaging in as near normal participation as possible.
Instruct child to ask for assistance if needed for daily activities; assist to plan a schedule for ADL that will conserve energy.	Prevents overtiring and fatigue.

NIC: Energy Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did infant/child engage in the activity specified without fatigue or respiratory difficulty? Describe behavior.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Chronic pulmonary disease.

Defining Characteristics: Presence of and stasis of mucus in respiratory tract, increased environmental exposure, change in respiratory pattern and mucus color, temperature, steroid administration (specify).

Goal: Client will not experience any infection by (date/time to evaluate).

Outcome Criteria

 \checkmark Absence of infection.

 $\sqrt{}$ (Specify individual parameters to monitor for infection, e.g., behavioral, VS, lab values, changes in secretions and breathing.)

NOC: Risk Control

INTERVENTIONS Assess for change in breathing pattern, color of mucus,

RATIONALES Indicates presence of respiratory infection. diminished breath sounds, ability
to cough and raise secretions
(specify frequency).
Teach to avoid exposure to persons
with respiratory infections;
isolate from infectious patients.

- Teach and use good handwashing technique before giving care.
- Assist to cough or remove secretions by suctioning.

Use medical asepsis techniques or sterile techniques when administering respiratory care (specify).

Administer antibiotics as ordered (specify drug, dose, route, and times).

Instruct parents of child's high susceptibility to infection and to avoid contact of child with persons or family members with respiratory infections.

- Teach parents about antibiotic regimen (specify) and inform of need to have influenza immunization and to avoid cough suppressants.
- Teach parents to report any changes in mucus or respiratory status to physician.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide evaluative data on parameters specified in outcome criteria, e.g., VS, behavior, etc.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANTICIPATORY GRIEVING

Related to: Potential loss of significant other by parents, perceived potential loss of physiopsychosocial well-being by child.

Prevents transmission of

Prevents transmission of

Provides prophylactic

threatening.

up secretions.

infection.

Provides for immediate

microorganisms to child.

Stasis of secretions provide medium for infection.

Prevents exposure to infectious

antibiotics, that are often

Prevents any infection that will

measures to control possible

infection, cough suppressants

prevent cough needed to bring

compromise respiratory status

prescribed as a preventive measure. Specify drug action.

and that could be life-

Promotes use of preventive

interventions to control

infection.

agents.

microorganisms as disease

increases susceptibility to

Defining Characteristics: (Specify: expression of distress at potential loss, poor prognosis for child [premature death], anger, guilt, sadness, fear, long-term chronic illness of child; use guotes.)

Goal: Clients will express their grief by (date/time to evaluate).

Outcome Criteria

 \checkmark Clients express concerns about the future.

 \checkmark Clients verbalize the stages of grieving.

 \checkmark Clients identify support systems available to them.

NOC: Family Coping

INTERVENTIONS

RATIONALES

Assess stage of grief process, problems encountered, feelings regarding potential loss.	Allows for information regarding stage of grieving, as time to work through grieving varies with individuals and the longer the illness, the better able th parents and family will be able to move through the stages towards acceptance.
Provide emotional and spiritual comfort in an accepting environment.	Provides for emotional needs of parents; assists them in coping with ill child.
Answer all questions honestly, clarify any misconceptions.	Promotes trust and reduces parental anxiety.
Accept parental and child's responses and allow for their expression of feelings.	Allows for reactions necessary to work through grieving.
Assist in identifying and using effective coping mechanisms and in accepting situations over which they have no control.	Promotes use of defense mechanism to progress through grief.
Encourage parents to assist child with normal development and discipline.	Promotes sense of normalcy and well-being for child.
Allow child to talk about any concerns regarding death and respond to questions honestly.	Promotes expression of feelings and concerns for understanding grieving process and behaviors.
Provide information to child based on age and developmental level (specify).	Ensures that child receives information he or she can understand. Promotes trust.
Inform parents and child of stages of grieving and of behaviors that are common in resolving grief.	Promotes understanding of feeling and behaviors that are manifested by grief.
Suggest to parents coping skills and approaches that may be used	Promotes coping ability over prolonged period of illness.

duals and the longer , the better able the family will be able ough the stages eptance. emotional needs of sists them in coping ild. t and reduces xiety. actions necessary to h grieving. of defense mechanisms through grief. e of normalcy and for child. ession of feelings s for understanding ocess and behaviors. child receives he or she can Promotes trust. rstanding of feelings rs that are by grief. ng ability over eriod of illness.

(give examples). Refer to (specify) counseling services, clergy, local support agencies for cystic fibrosis, Cystic Fibrosis Foundation.	Provides support and assistance in adapting to chronic illness and potential early death of child.
Discuss with parents and child the disease process and what can be expected from chronic nature and systems involved with the illness.	Provides a realistic view of the child's illness.

NIC: Grief-Work Facilitation

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients express concerns about the future? Did clients verbalize the stages of grieving? What support systems did clients identify as available to them? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: (Specify: threat of or change in health status; threat of or change in environment (hospitalization), threat of death, threat of illness occurring in healthy children or future children.)

Defining Characteristics: (Specify, e.g., parent—increased apprehension that condition might worsen or infection develop, expressed concern and worry about possible hospitalization, fear of consequences of disease, increased tension and uncertainty; child—unhappy and sad attitude, withdrawal or aggressive behavior, somatic and fatigue complaints, poor school attendance and performance.)

Goal: Clients will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Clients identify cause of anxiety and 3 coping mechanisms.

 \checkmark Clients verbalize decreased feelings of anxiety.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

Assess source and level of anxiety, P: how anxiety is manifested, and need for information that will relieve anxiety of client. and

Provides information about anxiety level and the need for interventions to relieve it, sources may include fear and

loss of responsibility if hospitalized. Allow parents and child to express fears and concerns and to ask guestions about disease and what to expect. Assist clients to identify effective coping mechanisms they may use for anxiety (suggest possibilities as needed, e.g., relaxation techniques, listening to music, playing with clay). Communicate with parents and answer questions calmly and honestly. Provide supportive and nonjudgmental environment. Inform parents and child of all procedures and treatments. Allow parents to stay with child, allow open visitation and telephone communications; encourage to participate in care that is planned around usual home routines. If hospitalization is frequent, assign same personnel to care for child if appropriate. Explain changes in condition and need for hospitalization. Explain to parents and child as appropriate for age, reason for each procedure or type of therapy, effects of any diagnostic tests. Clarify any misinformation with honesty and in simple, understandable language. Refer to counseling, community groups for cystic fibrosis (as needed; specify).

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

uncertainty about treatment and recovery, guilt for presence of illness, possible loss of parental role, Provides opportunity to vent feelings and secure information to reduce anxiety.

Promotes clients' active participation in decreasing anxiety.

Promotes calm and supportive environment. Promotes trust and reduces anxiety. Relieves anxiety caused by fear of the unknown. Reduces anxiety for child by allowing presence and involvement in care, and familiar routines and persons.

Promotes trust and comfort and reduces anxiety when cared for by familiar persons. Promotes understanding of disease complications and nature of chronic disease. Prevents anxiety by reducing fear of unknown.

Prevents unnecessary anxiety resulting from inaccurate information or beliefs. Provides support to parents and child, and information from those with similar problems, which reduces anxiety. (Which causes of anxiety did clients identify? Did clients verbalize decreased anxiety? Provide quotes. Specify 3 coping mechanisms identified by clients.)

(Revisions to care plan? D/C care plan? Continue care plan?)

INTERRUPTED FAMILY PROCESSES

Related to: Chronic illness.

Defining Characteristics: (Specify: family system unable to meet physical, emotional needs of its members; inability to express or accept wide range of feelings; family unable to deal with or adapt to chronic illness of child in a constructive manner; excessive involvement with ill child by parents/siblings; evidence of marital and social discord exhibited by parents; guilt expressed by parents/siblings; irritability as a response to the ill child; lack of support from family/friends.)

Goal: Family will regain a functional family system by (date/time to evaluate).

Outcome Criteria

 \checkmark Family members display supportive behaviors to one another.

- \checkmark Family members report open discussions to solve problems.
- \checkmark Family members identify how ill child will be cared for.

NOC: Family Functioning

INTERVENTIONS

RATIONALES

- Assess family ability to cope with ill child, strain on family relationships, developmental level of family, response of siblings, knowledge of health practices, family rule behavior and attitude toward long-term care, economic pressures and resources to care for long-term illness.
- Assist individual family members to identify stressors and behaviors and to define them in positive terms.
- Assist family members in expressing problems and exploring solutions, responsibilities.
- Assist in establishing short- and long-term goals in maintaining
- Provides information about family
 attitudes and coping abilities,
 that directly affect the child's
 health and feeling of wellbeing;
 chronic illness of a child in a
 family may strengthen a family or
 strain family relationships;
 members may develop emotional
 problems when family is under
 stress.
 Individual problems that are
 defined and explored have meaning
 for the entire family.
- Provides opportunity to express feelings, problems, and problemsolving strategies by whole family.
- Promotes inclusion of ill child in family routines and activities.

child care and family integration of child into home routine.

Support and encourage parental caretaking efforts.

Discuss family dynamics and need to tolerate conflict and individual behaviors.

Discuss needs of all family members and inform of methods to provide care and attention to all members.

Inform parents of local agencies, respite care, support groups for family assistance, Cystic Fibrosis Foundation (specify).

- Suggest to family methods to maintain child's independence and role in the family and that discipline of child and well children should be the same.
- Encourage that family health must be maintained and social contacts encouraged.

Provide referrals to parents about where health care may be secured (dentist, physical therapy, pulmonary physiotherapy (specify).

NIC: Family Mobilization

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe family members' behavior toward each other. Did family members report open discussions? Use quotes. Specify the plan family members identified to care for ill child.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED HOME MAINTENANCE

Related to: Complexity of home care management of cystic fibrosis patient.

Defining Characteristics: (Specify: frequent exacerbations of respiratory infections; inadequate understanding of illness and home care components; child not functioning up to full potential in terms of growth and development, independence issues; stressors within family relationships.)

Reinforces roles and reduces stress

Provides knowledge and assists in

understanding family behaviors

leading to problem resolution.

Provides information, economic and

Ensures acceptance of child into

Health and attitude of family

promotes ill child's coping

Ensures ongoing health care for

child with chronic illness.

emotional support for family as a

Allows for ongoing responsibility for care of all family members.

in family members.

group or individual.

family routines.

ability.

Goal: Family will provide a safe, hygienic home for ill child by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents obtain and learn to operate equipment needed to care for child (specify).

 \checkmark Family provides appropriate care for ill child (specify parameters to evaluate).

NOC: Family Functioning

INTERVENTIONS

Assess home environment and families' ability to maintain a safe, clean home for the ill child.

- Develop a flexible home plan of care, with input from all family members.
- Assist parents in locating the appropriate equipment and supplies necessary for home care; provide opportunities to learn and practice use prior to discharge; anticipate problems.
- Instruct parents in all aspects of home care; reinforce teaching with written materials; return demonstrations, as applicable: oral hygiene chest physiotherapy (CPT)-parents adjust frequency based on individual child's needs; use of games and childhood activities can be incorporated into the therapy (somersaults, wheelbarrow); antibiotic therapy for respiratory exacerbations; facilitate arrangements with home health nursing (as applicable), nutrition management including pancreatic enzyme replacement, health practices-adequate rest, good hygiene, importance of follow-up care, exercise, prevention of illness.
- Instruct parents on the signs of depression, especially in adolescents; make appropriate referral as needed (specify).
- Organize and coordinate services from health professionals involved in the home care of the child, including home health nursing, respiratory therapy, physicians, social services (as applicable).
- Discuss impact of caregiving at home with family members to assess

RATIONALES

Provides baseline data on which to plan interventions.
Promotes less disruption to family routines.
Promotes feelings of control; may decrease anxiety and stressors.
Promotes understanding of care needed for child at home to provide optimal health and promote

provide optimal health and promot normal growth and development; promotes body's own natural defenses. Use of play will increase the likelihood of success.

Promotes good communication between parent and health professional if a concern arises.

Promotes family support which is crucial for a positive adaptation to care at home; may lessen anxiety and stressors.

Promotes improved communication between family members and health

potential problems; include siblings.	professionals; promotes positive relationships between parent-child and child-sibling.
Provide support and praise for family members as they take over the care of their child.	Positive reinforcement empowers the family to provide optimum care.

NIC: Family Mobilization

Evaluation

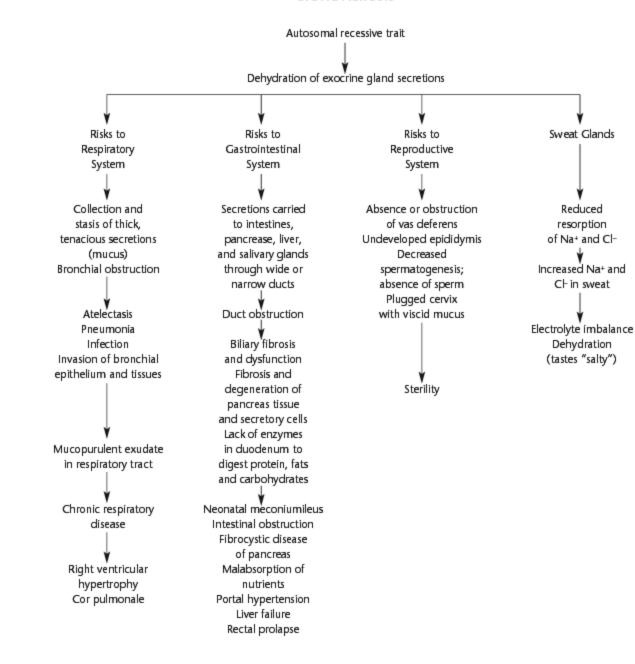
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did family obtain and demonstrate use of equipment? Did family care for child as indicated in specified outcome parameters?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CYSTIC FIBROSIS



CYSTIC FIBROSIS

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CHAPTER 3.6 - EPIGLOTTITIS

INTRODUCTION

Epiglottitis is the acute inflammation of the epiglottis and surrounding laryngeal area with the associated edema that constitutes an emergency situation as the supraglottic area becomes obstructed. The child characteristically appears very ill with a fever, severe sore throat, muffled voice, and insists on sitting upright with the chin extended and mouth open. Drooling is common because of inability to swallow, and respiratory distress is progressive as the obstruction advances. No examination of the oropharynx is performed until emergency equipment and personnel are readily available. Respiratory distress must be relieved by endotracheal intubation or tracheostomy in severe cases. Onset is rapid (over 4-12 hours) and breathing pattern usually re-established within 72 hours following intubation and antimicrobial therapy. Children most commonly affected are between 2 and 7 years of age.

MEDICAL CARE

Immunization: hemophilus, type B vaccination, to protect against the Hemophilus influenzae, type B, the most common cause of epiglottitis.

Antipyretics/Analgesics: acetaminophen to reduce fever and relieve throat pain. Ibuprofen (nonsteroidal anti-inflammatory) for children 6 months to 12 years; to reduce fever and inflammation.

Antibiotics: ampicillin; chloramphenicol (Chloromycetin Palmitate suspension); cefuroxime sodium.

Corticosteroids: reduces inflammation of the epiglottis, improving oxygenation; dexamethasone.

Oxygen Therapy: treats potential hypoxia; administered by tent, mask, cannula or via endotrachial tube.

Neck X-ray: may be done to view lateral neck to diagnose condition.

Throat Culture: reveals and identifies causative agent and sensitivity to specific antimicrobial therapy. Done only under direct supervision of a physician, emergency equipment for intubation should be readily available.

Blood Culture: reveals and identifies causative agent or presence of other infectious agent.

Arterial Blood Gases: reveals decreased pH, pO₂; increased pCO₂ as respiratory distress becomes more acute and ventilation perfusion disturbance occurs.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Obstruction.

Defining Characteristics: (Specify: sudden increase in temperature, dyspnea, tachypnea, drooling, difficulty in swallowing, bright red epiglottis with edema, decreased breath sounds, muffled voice, sore throat, neck X-ray results.)

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process, obstruction.

Defining Characteristics: (Specify: air hunger, dyspnea, tachypnea, use of accessory muscles [intercostal, sub or suprasternal retractions], assumption of three-point position, sitting up with mouth open and chin forward, stridor or croaking sound on inspiration.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Loss of fluid through respirations and temperature, altered intake.

Defining Characteristics: (Specify: increased body temperature, dry skin and mucous membranes, decreased skin turgor, increased pulse and respirations, sore throat and difficulty in swallowing, refusal to drink fluids.)

See HYPERTHERMIA

Related to: Inflammation/infection of epiglottis.

Defining Characteristics: (Specify: sudden increase in body temperature above normal range, specify, warm to touch, increased pulse and respirations, positive culture.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Specify: change in health status of child; change in environment (hospitalization); change in role functioning (parenting).

Defining Characteristics: (Specify: verbalization of extreme fear and apprehension by parents; agitation, crying, irritability, air hunger and extreme expression of fear [child].)

Goal: Clients will experience decreased levels of anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize decreased anxiety.

 \checkmark Child appears calm without crying or irritability.

NOC: Anxiety Control

INTERVENTIONSRATIONALESAssess severity of fear and anxiety
of parents and child.Provides information about
presence of extreme anxi

RATIONALES Provides information about presence of extreme anxiety as symptoms of disease become more acute and breathing more Provide calm and supportive environment and reassure parents that best care is being given to child.

- Allow child to assume position of comfort, provide familiar object (toy, blanket); tripod position may offer the most comfort.
- Remain with child at all times during acute stages.
- Encourage parents to stay with child, provide a place for rest.
- Teach parents about all procedures, care, and changes in the child's condition.
- Avoid any care or procedures that are not necessary during acute stage.
- Allow child to remain seated on parent's lap during all care, including lateral neck X-ray if ordered.
- Allow for expression of fears and feelings of parents and child and for behaviors caused by severe anxiety.
- Orient parents and child to room, equipment, supplies and policies.

Teach parents that swelling subsides 24 hours after antibiotic therapy is initiated and epiglottis usually returns to normal in about 3 days.

difficult. Provides reassurance and reduces anxiety of parents.

Promotes comfort and security for child.

Provides constant assessment for emergency interventions and reassurance for parents. Promotes security needs for child and assists in reducing parental anxiety. Reduces anxiety caused by fear of the unknown.

Prevents increase of anxiety which increases respiratory distress. Reduces child's anxiety and

avoids precipitating a complete obstruction.

Reduces anxiety and embarrassment.

Familiarizes them to hospital environment. Provides confirmation of positive outcome and reduces anxiety.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did client verbalize decreased anxiety? Use quotes. Describe child's behavior.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR SUFFOCATION

Related to: Disease process.

Defining Characteristics: (Specify: supraglottic edema; obstruction; dysphasia; hypoxia; cyanosis; extreme anxiety, with struggle to breathe.)

Goal: Child will not experience suffocation by (date/time to evaluate).

Outcome Criteria

 \checkmark Preventive measures taken to ensure patent airway.

 \checkmark Child's airway remains open either naturally or by means of ET tube or tracheostomy.

NOC: Risk Control

INTERVENTIONS

RATIONALES

obstruction.

INTERVENTIONS
Assess for changes in skin color from
pallor to cyanosis, severe dyspnea
and sternal and intercostal
retractions, lethargy, increased
pulse (specify when).
Allow to sit up and avoid forcing
child to lie down.

Avoid inspecting throat with tongue blade or obtaining throat culture unless immediate emergency equipment and personnel at hand.

Administer O_2 and monitor via pulse oximeter.

Have emergency intubation equipment at hand and assist with endotracheal intubation or tracheostomy if necessary, or prepare for procedure in surgery.

Provide parents with explanation of care and all procedures and reason and procedure for emergency intubation or tracheostomy if needed while hospitalized.

Inform parents of reason for restraints if emergency procedure done, that swelling is reduced after 24 hours of therapy and tube will probably be removed after 3 days. Lying down may cause epiglottis to fall backward, causing airway obstruction. Leads to airway spasms and obstruction. Promotes oxygenation of tissues

and prevents hypoxemia. Establishes airway if obstruction present and respiratory failure and asphyxia imminent.

Provides information about increasing airway

Explanations provide information and support for parents who are not familiar with procedures.

Prepares parents with information of what to expect.

NIC: Airway Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe status of child's airway.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE (PREVENTIVE CARE)

Related to: The promotion of health-seeking behaviors within the hospital and/or home to prevent complications and speed recovery (specify).

Defining Characteristics: (Specify: parents request information about caregiving and preventive measures; child readmitted to hospital with complications.)

Goal: Parents will gain understanding of preventive care by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize signs and symptoms to report to the physician.

 \checkmark Parents demonstrate correct medication administration for the child.

NOC: Knowledge: Treatment Regimen

INTERVENTIONS	RATIONALES
Teach parents on the administration of prescribed medications (specify).	Promotes understanding that may improve consistency of medication administration and recognition of adverse effects.
Teach parents the signs and symptoms of respiratory distress (specify).	Encourages parents to seek prompt medical treatment as necessary.
Instruct parents on the importance of rest and good nutrition, to prevent illness.	Prevents secondary infections; promotes body's own natural defenses.
Encourage and teach parents to provide care for the hospitalized child at a level they are comfortable with and within the constraints of necessary treatments.	Promotes parental identity and control; may lessen anxiety and stress.
Teach parents, child, and family members, as applicable, on good handwashing techniques and the proper disposal of soiled tissues, and so forth.	Prevents transmission of illness.
Evaluate parents' understanding of	Provides information about

teaching and reinforce as needed.	additional teaching needs.
Offer praise for efforts.	Positive reinforcement promotes
	self-esteem and pride in caring
	for the child properly.

NIC: Teaching: Prescribed Medication

Evaluation

(Date/time of evaluation of goal)

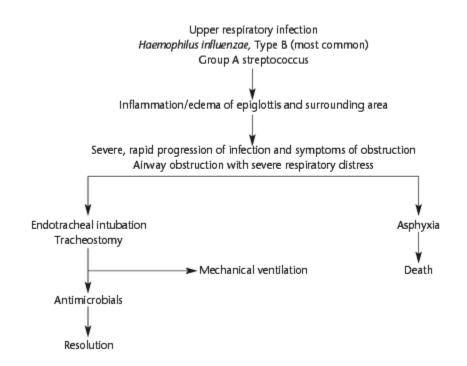
(Has goal been met? Not met? Partially met?)

(Did parents verbalize understanding of signs to report? Provide quotes. Did parents demonstrate medication administration?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR EPIGLOTTITIS

EPIGLOTTITIS



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CHAPTER 3.7 - CROUP

INTRODUCTION

Laryngotracheobronchitis (LTB) is the most common form of croup. It is characterized by an acute viral infection of the larynx, trachea, and bronchi which causes obstruction below the level of the vocal cords. Spasmodic croup is croup of sudden onset, occurring mainly at night and characterized by laryngeal obstruction at the level of the vocal cords caused by viral infections or allergens. Both occur as a result of upper respiratory infection, edema, and spasms that cause respiratory distress in varying degrees depending on the amount of obstruction. The disease most commonly affects infants and small children between 3 months and 3 years of age and occurs in the winter months. Hospitalization is reserved for those with severe symptoms and compromised respiratory function caused by the obstruction.

MEDICAL CARE

Antipyretics: acetaminophen to reduce fever; Ibuprofen (nonsteroidal anti-inflammatory) for children 6 months to 12 years; to decrease fever and inflammation.

Bronchodilators: racemic epinephrine inhalant given by nebulizer or intermittent positive pressure breathing device (IPPB) to relax respiratory smooth muscle and relieve stridor respirations.

Corticosteroids: to reduce inflammation and edema around the vocal cords.

Antibiotics: antibiotic selection dependent on culture sensitivity results.

Oxygen Therapy: treats hypoxemia based on reduced pO₂ levels of ABGs, administered by tent or hood.

Chest/Neck X-rays: differentiate between croup disorders and epiglottitis.

Throat Culture: reveals and identifies infectious agent and sensitivity to specific antimicrobial therapy.

Arterial Blood Gases: reveal hypoxemic states that require oxygen therapy; decreased pH, and changes in oxygen and carbon dioxide levels, indicating respiratory acidosis or failure in severe cases.

Complete Blood Count: reveals increased WBC if infection present.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial obstruction.

Defining Characteristics: (Specify: dyspnea; thick secretions; tachypnea; hoarseness; persistent barking cough; diminished breath sounds, with scattered crackles and rhonchi; cyanosis; restlessness; tachycardia; hypoxemia; hypercapnia.)

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process, laryngotracheobronchial obstruction.

Defining Characteristics: (Specify: dyspnea, tachypnea, abnormal ABGs, barking, metallic sounding cough, nasal flaring, inspiratory stridor, subclavicular and substernal retractions, cyanosis or pallor, restlessness, irritability.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Loss of fluid through normal routes (respirations and temperature), altered intake.

Defining Characteristics: (Specify: low grade temperature, dry skin and mucous membranes, increased pulse and respiration, difficult swallowing, poor skin turgor, sunken fontanels, and absence of tears.)

See DISTURBED SLEEP PATTERN

Related to: Difficult breathing.

Defining Characteristics: Interrupted sleep caused by cough, restlessness, irritability (describe).

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Change in health status of infant/small child; threat to or change in environment (hospitalization).

Defining Characteristics: (Specify: increased apprehension that condition might worsen and hospitalization might be necessary [parental]; crying and clinging behaviors, refusal to eat or play [infant or small child]; persistent cough and breathing difficulty [infant/small child].)

Goal: Client will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Parent verbalizes decreased anxiety.

 \checkmark Child is calm, not crying.

NOC: Anxiety Control

INTERVENTIONS

Assess level and sources of anxiety of parents and child and identify behaviors caused by anxiety.

Allow parents to express concerns and to ask questions about course

RATIONALES

Provides information about need for interventions to relieve anxiety and concern. Provides opportunity to vent feelings, secure information of disease and what to expect. Encourage parents and child to remain calm and provide a quiet environment.

Inform parents and child of all procedures, especially use of croup tent, care and any changes in condition.

Encourage parents to stay with infant/small child if hospitalized, bring toy, blanket from home; allow visits from siblings.

If hospitalized, carry out home routines for feeding, sleep.

Explain course of disease to parents and child, that recovery is fairly prompt with proper therapy, and that cough may persist for a week or more after recovery.

Clarify any misinformation and answer all questions regarding the disease process and manifestations.

If tent is used, instruct and assist parents in interacting with child. Inform and discuss signs and symptoms indicating increasing

severity of disease and actions to take.

needed to reduce anxiety. Anxiety affects respirations and calm environment reduces anxiety. Relieves anxiety resulting from fear of the unknown.

Allows parents to care for and support child and provide familiar objects and people to reduce child's anxiety.

Prevents anxiety associated with changes in daily rituals. Reduces anxiety caused by the sound of the breathing and appearance of the infant/small child.

Prevents unnecessary anxiety
 resulting from inaccurate
 information or beliefs.
Promotes support to child and
 relieves anxiety.
Reduces anxiety caused by
 increasing acuteness of
 condition by knowledge of what
 to do and when to report to
 physician.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did parent say about anxiety level? Describe child's behavior)

(Revisions to care plan? D/C care plan? Continue care plan?)

FATIGUE

Related to: Dyspnea.

Defining Characteristics: (Specify: lethargy or listlessness, emotional lability or irritability, exhausted appearance, inability to eat.)

Goal: Child will experience increased energy by (date/time to evaluate).

Outcome Criteria

 \checkmark Child sleeps (specify number of hours) without interruption.

 \checkmark Child eats and drinks (specify amount or percentage).

NOC: Energy Conservation

INTERVENTIONS

RATIONALES

Assess for weakness and fatigue, ability to rest, sleep, and eat.	Dyspnea and work of breathing over period of time exhausts the infant/child's energy reserves affecting ability to rest, eat, drink.
Disturb only when necessary, perform all care at one time instead of spreading over a long period of time.	Conserves energy and prevents interruptions in rest.
Schedule and provide rest periods in a quiet, comfortable environment (temperature and humidity).	Promotes adequate rest and reduces stimuli to decrease fatigue.
Allow quiet play while maintaining bed rest.	Rest decreases fatigue and respiratory distress; quiet play prevents excessive activity, which depletes energy and increases respirations.
Explain need to conserve energy and avoid fatigue to parents and child.	Promotes understanding of infant/ young child's response to respiratory distress and importance of rest and support to prevent fatigue.
Suggest measures to take to prevent fatigue (holding and/or rocking infant/young child, feeding slowly in small amounts, playing with child, offer TV and other diversions).	Provides support to infant/small child and conserves energy.
Teach parents to decrease crying and not allow infant to cry longer than 1 to 2 minutes.	Prevents fatigue, as prolonged crying exhausts infant.
Assist parents to make a plan for providing bathing, feeding, changing diaper around rest periods.	Prevents interruption in rest or sleep.

NIC: Energy Management

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Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Specify how long child sleeps and describe how much child is eating.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE OF PARENTS: CARETAKER

Related to: Caregiving to prevent complications and speed recovery.

Defining Characteristics: (Specify, use quotes: parents request information about the home care of the child and/or preventive measures.)

Goal: Parents will understand how to care for ill child by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize how to provide warm mist for spasmodic croup.

 \checkmark Parents identify when to seek medical care for their child.

NOC: Knowledge: Treatment Regimen

INTERVENTIONS

RATIONALES

INTERVENTIONS
Assess parent's understanding of child's illness.
Teach parents to seek medical care if their child has a high fever (>101° F) or any signs of respiratory distress.
Instruct parents on the administration of prescribed medications (specify).
Teach parents the importance of rest (specify quantity).
Teach parents to provide good nutrition and hydration,
emphasizing a high calorie balanced diet and increased fluids (specify).
Teach parents how to provide humidity by sitting in the bathroom with the

door closed and a hot shower running, while holding the child.

teaching. Provides parents with guidelines to obtain health care when needed. Improves consistency of medication administration and recognition of adverse side effects. Prevents secondary infections and/or relapses. Promotes liquification of secretions, and replaces calories used to fight infections, boosting the child's own natural defenses. Decreases bronchial spasms and inflammation.

Provides baseline data for

5 of 8

Protect the child from burns. Also, teach that taking the child out into the cool night air when taking child to the hospital, may decrease the symptoms.	
Encourage and teach parents to provide care for the hospitalized child at a level they are comfortable with, and within the constraints of necessary treatments (specify).	Promotes parental identity and control; may lessen anxiety and stress.
Teach good handwashing techniques, and the appropriate disposal of soiled tissues.	Prevents transmission of illness.
Encourage parents to limit visitors and screen them for recent illness.	Prevents transmission of illness; prevents or minimizes risk of complications for the infected child.
Teach parents that spasmodic croup may reoccur for 1 or 2 nights.	Provides anticipatory guidance to parents.

NIC: Teaching: Individual

Evaluation

(Date/time of evaluation of goal)

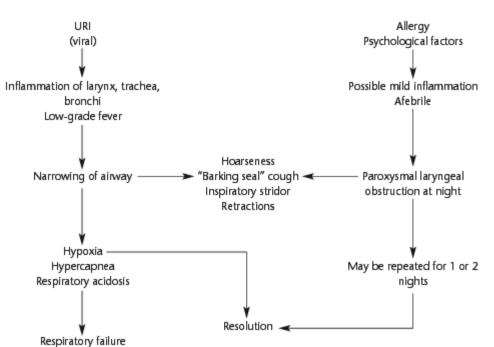
(Has goal been met? Not met? Partially met?)

(Using quotes, what did parents say about how to provide warm mist for spasmodic croup? When did they say they would seek medical care for their child?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CROUP





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Acute Spasmodic Croup

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CHAPTER 3.8 - OTITIS MEDIA

INTRODUCTION

Otitis Media (OM) is an infection of the middle ear most common in infants and toddlers during the winter months. It may be either viral or bacterial. Inflammatory obstruction of the eustachian tube causes accumulation of secretions in the middle ear and negative pressure from lack of ventilation. The negative pressure pulls fluid and microorganisms into the middle ear through the eustachian tube resulting in otitis media with effusion. The illness usually follows a URI or cold. The older child runs a fever, is irritable, and complains of severe earache, while a neonate may be afebrile and appear lethargic. The child may or may not have a purulent discharge from the affected ear. Myringotomy is a surgical procedure performed to equalize the pressure by inserting tubes through the tympanic membrane. The tympanostomy tubes remain in place until they spontaneously fall out. Most children outgrow the tendency for OM by the age of 6. There is a higher incidence in children exposed to passive tobacco smoke and decreased incidence in breast-fed infants.

MEDICAL CARE

Antipyretics and Analgesics: to decrease fever and pain.

Antibiotics: when indicated for bacterial infection, a full 10 day course of an appropriate antibiotic: amoxicillin-clavulanate, trimethorprim-sulfamethoxazole, erythromycin, sulfonamides, cephalosporins, and so forth.

Tympanometry: provides information about pressure on the tympanic membrane.

Otoscopy: reveals a red, bulging tympanic membrane.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Acute illness.

Defining Characteristics: (Specify infant/child's temperature.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Inadequate intake.

Defining Characteristics: (Specify client's intake and output; describe feeding behavior of infant, e.g., begins to suck and pulls away crying; poor skin turgor, dark urine, etc.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inadequate intake for age and size.

Defining Characteristics: (Specify: e.g., refusal to eat; picks at food; cries that ear hurts when swallowing; low percentage of meals eaten [specify]; weight loss.)

See DISTURBED SLEEP PATTERN

Related to: Ear discomfort.

Defining Characteristics: (Specify: child wakes crying; sleeps fitfully.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Increased pressure in the middle ear.

Defining Characteristics: (Specify: e.g., infant is pulling at ear and crying, child states "my ear hurts"; rate pain on an appropriate pain scale for age and development.)

Goal: Client will experience relief from pain by (date/time to evaluate).

Outcome Criteria

 \checkmark Child rates pain < (specify for scale used).

 $\sqrt{1}$ Infant does not pull at ear, is calm and not crying, pain rating is < (use a pain scale designed for infants).

NOC: Comfort Level

INTERVENTIONS

RATIONALES

Use of a pain scale allows measurement of changes in level of pain by different providers. Preverbal infants frequently pull or rub the affected ear and appear irritable.
Pain may cause tachycardia and
tachypnea; fever may increase discomfort.
Specify the action of the
medication to decrease pain.
Provides information about the effectiveness of the medication and prevents complications.
Provides tactile comfort and distraction for the ill child.

<pre>(Specify: e.g., holding, rocking, or kangaroo care for an infant.) Suggest that a warm heating pad or an ice pack might provide comfort. (Specify if the child is old enough to choose.) Ensure safety by turning the heating pad only to low and covering it with a towel. Teach parents to check for overheating and to never turn the control higher than low.</pre>	Heat may facilitate vasodilation and drainage if the child lies on the affected side. Cold may reduce edema and pain.
Reassure parents that the discomfort	Parents may be concerned about
usually subsides within a day on	their child's pain but may not
antibiotics but reinforce that the	know to continue the antibiotic
whole prescription should be taken.	after symptoms subside.

NIC: Kangaroo Care

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Using quotes when possible, what is pain rating after implementation of care plan? Describe infant's behavior.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED SENSORY PERCEPTION: AUDITORY

Related to: Inflammation and edema of middle ear.

Defining Characteristics: (Specify: child complains of not being able to hear; does not respond when spoken to; infant does not respond to sounds as usual.)

Goal: Client will regain usual hearing level by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ Specify, e.g., child states that hearing has returned to "normal."

 \checkmark Infant responds to sounds made behind him or her.

NOC: Anxiety Control

INTERVENTIONS Observe the client's response to sound. Ask an older child to

RATIONALES Provides baseline assessment data about degree of hearing

describe hearing loss (e.g., do things sound muffled, or is there no sound in the affected ear?).	loss.
Reassure parents and child that hearing loss is temporary and will resolve with treatment. Provide information about OM and answer any questions.	Decreases anxiety over sensory loss.
Speak in a loud and clear voice and face child when talking. Encourage parents also to do this.	Assists the client to hear what is being said.
Administer medications as ordered (specify drugs, doses, routes, times).	Describe action of drug that will resolve OM and restore hearing.
<pre>Decrease unnecessary environmental noise (specify, e.g., TV, alarms, staff noise, etc.) Notify caregiver of changes in hearing ability or drainage from affected ear.</pre>	The child may be confused and frightened by sounds he or she cannot hear properly. Complications of OM may include conductive hearing loss or a perforated tympanic membrane.

NIC: Communication Enhancement: Hearing Deficit

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did child report that hearing was improved? Use quotes. Describe infant's behavior related to sounds—compare to before interventions.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE: PARENTS, PREVENTION OF OM

Related to: (Specify, e.g., lack of information; lack of recall of information; misinterpreted information.)

Defining Characteristics: (Specify, e.g., parents allow smoking in the home so child is exposed to passive smoke; infant is bottle-fed and sometimes the infant lies flat with the bottle propped.)

Goal: Parents will gain knowledge about prevention of OM by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of OM.

 \checkmark Parents verbalize understanding of 3 factors that may contribute to OM.

NOC: Knowledge: Disease Process

INTERVENTIONS

Provide privacy for discussion,
promote trust, remain nonjudgmental,
and support parents.
Assess parent's current understanding

of OM, the risks of exposing the infant/child to passive smoking, feeding activities with infant, and exposure to illness.

Teach parents (and child if ageappropriate) about OM using an ear model for demonstration. Ask parents to verbalize their understanding of teaching.

Discuss possible causes of OM: exposure to illness of others, irritation from environmental smoke, and/or formula entering the eustachian tube when the infant is fed in a supine position.

Assist parents to plan ways to decrease the chances of recurrent OM. Make suggestions as needed: take entire course of antibiotic; avoid sick people; maintain a smoke-free home; feed the infant while being held in a sitting position.

Provide praise for decisions that will promote wellness for the child and family. Refer parents to (specify, e.g.,

caregiver, smoking cessation, or parenting skills class) as needed.

NIC: Health Education

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize understanding of OM? What 3 factors did parents identify that may contribute to OM? Use quotes.)

RATIONALES

Shows respect for the parents and opens communication.

Provides baseline information

auditory and visual means and

about current knowledge.

Provides information by

assesses understanding.

Provides information about

Empower parents to make good

child to help prevent OM.

Positive reinforcement supports

gaining additional knowledge

decision to improve

Encourages follow-up and

lifestyle.

and skills.

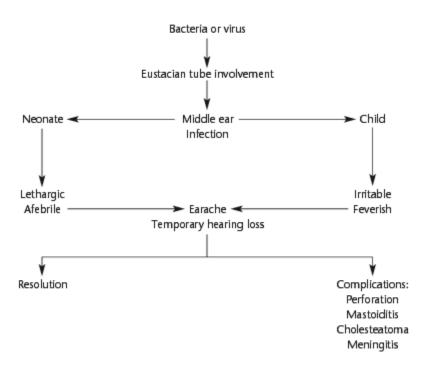
parenting decisions for their

health promotion.

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR OTITIS MEDIA





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CHAPTER 3.9 - PNEUMONIA

INTRODUCTION

Pneumonia is a lower respiratory condition characterized by the inflammation or infection of the pulmonary parenchyma. It is caused by bacteria, viruses, or fungi, or by the aspiration of a foreign substance. It may occur as a primary infection or secondary to another illness or infection. Pneumonia is most common in infants and small children, but it can occur throughout childhood. Signs and symptoms of the disease depend on the age, causative agent, extent of the disease, and the degree of obstruction it causes and the systemic reaction to the infection. The treatment and care is similar for all types of pneumonia.

MEDICAL CARE

Antipyretics: acetaminophen to reduce fever; Ibuprofen (nonsteroidal anti-inflammatory) for children 6 months to 12 years; to reduce fever and inflammation.

Antibiotics: penicillin G to treat pneumococcal, streptococcal, or staphylococcal pneumonia; Erythromycin, Trimethoprimsulfamethoxazole, Climadycin, Chloramphenicol, or cephalosporins for penicillin-allergic children.

Oxygen Therapy: treats hypoxemia, administered by oxygen tent or hood.

Chest X-ray: reveals patchy areas of consolidation in one lobe or throughout lung, varying sizes of pneumatoceles or disseminated infiltration dependent on causative agent.

Sputum Culture: reveals and identifies infectious agent and sensitivity to specific antimicrobial therapy.

Blood Culture: reveals positive reaction for causative agent.

Complete Blood Count: increased WBC of 15,000 or over 20,000/cu mm.

Antistreptolysin-O Titer: elevation indicates recent streptococcal infection if above 333 Todd units.

COMMON NURSING DIAGNOSES

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process.

Defining Characteristics: (Specify: dyspnea, tachypnea, grunting and nonproductive cough in small child, nasal flaring, decreased dull breath sounds, crackles, productive cough in older child, use of accessory muscles with retractions, circumoral cyanosis, shallow respirations, increased fremitus.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal routes, I fluid intake.

Defining Characteristics: (Specify: increased temperature and pulse rate tachypnea, vomiting and diarrhea in young child, reduced fluids in proportion to output, provide I&O.).

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food or digest food.

Defining Characteristics: (Specify: lack of interest in food, anorexia, cough, abdominal pain, vomiting and diarrhea in younger child.)

ADDITIONAL DIAGNOSES

HYPERTHERMIA

Related to: Illness of lower respiratory tract infection.

Defining Characteristics: (Specify: abrupt onset of high body temperature, tachycardia, tachypnea, chills, myalgia, warm to touch, flushed cheeks, convulsions in infant/young child.)

Goal: Client will be normothermic by (date/time to evaluate).

Outcome Criteria

 \checkmark Temperature between 97 and 100° F.

NOC: Thermoregulation

INTERVENTIONS

- Assess temperature (specify route and frequency). Administer antipyretic medications
- as ordered (specify drug, dose, route, and times) and reassess temperature (state when).

Remove any extra clothing or covers the child may have on after the antipyretic has taken effect.

Encourage fluids (specify if IV running or PO amounts—at least 30 cc/hr) that child likes (specify).

Teach parents how to take the child's temperature (specify). Teach parents about possible side effects of antipyretic medications (specify).

RATIONALES

Provides information about the effectiveness of care.
Specify action of drug in lowering temperature. Specify timing until peak action of specific medication.
Helps reduce skin temperature by convection after the set point has been lowered.
Additional fluids help prevent elevated temperature associated with dehydration.
Teaching empowers parents to care for their child.

Provide parents with instructions about management of childhood fever per caregiver preference (specify, e.g., when to use antipyretics, when to call the caregiver, etc.).

NIC: Fever Treatment

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is client's temperature?)

(Revisions to care plan? D/C care plan? Continue care plan?')

RISK FOR INJURY

Related to: Pulmonary complications.

Defining Characteristics: (Specify: fluid accumulation in the pleural cavity, dyspnea, pneumothorax, empyema, decreased breath sounds with crackles, seizure activity with high temperature, staphylococcal-type pneumonia in infant, pneumococcal-type pneumonia in child.)

Goal: Client will not experience injury by (date/time to evaluate).

Outcome Criteria

 \checkmark Breath sounds clear.

 $\sqrt{\text{Temperature}} < 100^{\circ} \text{ F}.$

NOC: Risk Control

INTERVENTIONS

RATIONALES

Assess vital signs and breath sounds, cough and ability to cough up secretions (specify when).

Prepare (infant/child) for procedure
 and assist with thoracentesis; use
 therapeutic play to prepare child.
Monitor temperature for sudden rise
 (specify frequency).

Changes revealed in early stages of complications and reveals airway patency and dyspnea caused by fluid accumulation in pleural cavity and secretion accumulation in airways. Performed to drain fluid to be cultured or to instill antibiotics if infection present. Reveals a sudden, rapid rise in temperature which may trigger a

febrile seizure. Allows for immediate preventive Report detection of possible respiratory complications (chest measures to be taken during pain, dyspnea, cyanosis, abdominal course of disease. distention), to physician. Reassure parents that complications Promotes a positive feeling in are uncommon because of parents for recovery of child. effectiveness of antibiotic therapy. Inform parents that recovery from Promotes awareness and compliance the disease is usually rapid and of parents to note respiratory uneventful if symptoms are changes and report them reported early for proper immediately to prevent treatment. complications. Teach parents and child to report Indicates possible pulmonary changes in respirations, sputum, infection. temperature elevation.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe breath sounds; what is client's temperature?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE: PNEUMONIA

Related to: Unfamiliarity with disease and complications, measures to control and prevent transmission of respiratory disease.

Defining Characteristics: (Specify: use quotes, verbalization of need for information about medications, activity and rest, nutritional and fluid requirements and medical asepsis techniques to prevent spread of infection.)

Goal: Parents will obtain knowledge about pneumonia by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding about disease and treatment methods.

 \checkmark Parents verbalize signs of respiratory distress to report (specify).

 \checkmark Parents demonstrate correct handwashing and disposal of used tissues.

NOC: Knowledge: Treatment Regimen

INTERVENTIONS

- Assess parents' knowledge of disease and methods to control and resolve disease.
- Provide information and explanations in clear, understandable language; use pictures, pamphlets, video tapes, model in teaching about disease (specify).

Instruct in administration of medications including action of drugs, dosages, times, frequency, side effects, expected results, methods to give medications; provide written instructions and schedule to follow and inform to administer full course of antibiotic to child (provide specifics).

Instruct and assist to plan feedings and/or develop menus for appropriate inclusion of nourishing fluids, daily caloric and basic four requirements for age group (specify).

- Teach about any activity restrictions and of adequate rest during illness and convalescence.
- Teach about care of used tissues and to cover mouth and nose when coughing or blowing nose; proper handwashing technique for parents and child.
- Instruct parents on the signs and symptoms of impending respiratory distress (specify).

RATIONALES

- Promotes plan of instruction that is
 realistic and prevents repetition
 of information.
 Ensures understanding based on
 readiness and ability to learn;
 visual aids reinforce learning.
- Provides information about drug therapy, which is the most important treatment for the cure of pneumonia, and about prevention of lung complications resulting from the disease; bacterial
- pneumonia is treated with antibiotic therapy.
- Promotes proper diet, which enhances health status, and adequate fluid intake, which prevents dehydration.
- Promotes more rest and possible restriction of activity needed during more acute stages of disease.
- Prevents transmission of microorganisms by droplets dispersed into the air or by hands.
- Encourages parents to seek prompt medical treatment as necessary.

NIC: Teaching: Disease Process

Evaluation

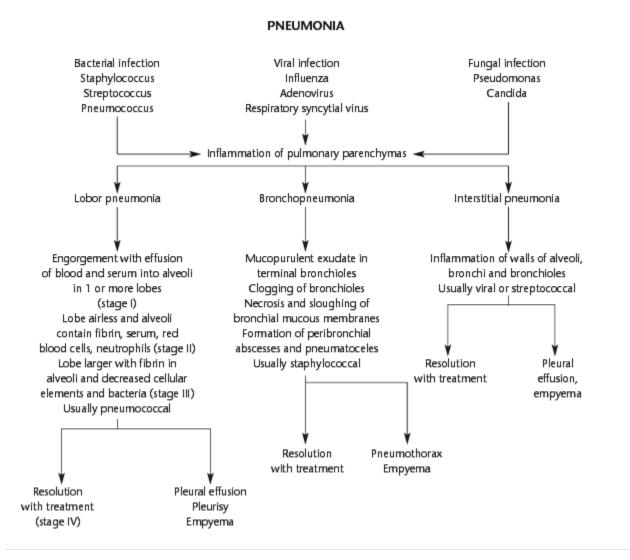
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize understanding about the disease and treatment and signs of respiratory distress to report? Provide quotes. Did parents wash hands and dispose of used tissues correctly or indicate that they would?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR PNEUMONIA



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CHAPTER 3.10 - TONSILLITIS

INTRODUCTION

Tonsillitis is an infection of the tonsils, which consist of pairs of lymph tissue in the nasal and oropharyngeal passages. Bacterial or viral pharyngitis usually precedes infection of the tonsils. Inflammation and edema of the tonsillar tissue creates difficulty swallowing and talking, and forces the child to breathe through the mouth. Advanced infection can lead to cellulitis in adjacent tissue or formation of an abscess which may require drainage. The tonsils removed during a tonsillectomy are the palatine tonsils located in the oropharynx. The adenoids are tonsils located in the nasopharynx and also sometimes removed by adenoidectomy.

MEDICAL CARE

Rapid Strep Test/Throat Culture: to identify streptococcal tonsillitis requiring antibiotic treatment.

Antibiotics: for streptococcal tonsillitis: penicillin, erythromycin, amoxicillin, azithromycin, cephalosporins.

Antipyretics/Analgesics: acetaminophen to reduce fever and discomfort; throat lozenges.

Tonsillectomy, Possibly with Adenoidectomy (T & A): may be done for recurrent bouts of tonsillitis or severe inflammation leading to obstruction. Surgery is delayed for 6 weeks after an acute infection.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Obstruction by inflamed lymphoid tissue.

Defining Characteristics: (Specify, e.g., child complains of difficulty swallowing; breathes through mouth only.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Discomfort associated with swallowing.

Defining Characteristics: (Specify: e.g., child refuses to eat, states "throat hurts"; give percentages of meals eaten.)

See ANXIETY

Related to: Perceived threat to biologic integrity of child secondary to invasive procedures.

Defining Characteristics: (Specify, e.g., parents state they are anxious, confused about indications for surgery; parent is crying or irritable; describe behaviors.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR DEFICIENT FLUID VOLUME

Related to: Inadequate oral intake, excessive losses through abnormal route.

Defining Characteristics: (Specify, e.g., child states it hurts to drink, decreased intake [specify amount]; post-tonsillectomy risk for hemorrhage.)

Goal: Child will not experience deficient fluid volume by (date/time to evaluate).

Outcome Criteria

✓ Intake equals output.

 \checkmark No signs of bleeding from operative site.

NOC: Fluid Balance

INTERVENTIONS

Assess hourly intake and output. Monitor skin turgor and moisture of mucous membranes.

Observe post-tonsillectomy client for signs of bleeding: assess operative site using a flashlight (specify frequency), monitor child for excessive swallowing, even during sleep.

Monitor vital signs per protocol (specify which parameters and frequency).

Monitor and maintain IV fluids via pump as ordered (specify fluid and rate). Evaluate IV site hourly.

Encourage child to drink small amounts of favorite clear liquids (specify, e.g., 30 cc per hour of apple juice). Avoid red or browncolored liquids or citrus. Do not allow use of a straw.

Use creative, developmentally appropriate techniques to make a game of drinking (specify, e.g., placing stars or coloring in blocks

on a chart or earning stickers. Teach child to avoid excessive coughing or clearing of throat. Administer antiemetics as ordered (specify) to prevent vomiting. Provide parents with discharge teaching regarding fluid intake,

RATIONALES

Provides information about physiologic fluid balance and signs of dehydration. Provides information about the integrity of the surgical site. Bleeding from the operative site may cause the child to swallow frequently.

Tachycardia and hypotension are physiologic responses to deficient fluid volume.

Replaces losses from surgery and maintains hydration if child is unable to drink.

Small amounts may be more easily tolerated. Red or brown may be confused with bleeding if child vomits. Suction created by sucking could disrupt operative site, avoids risk for injury.

Child's desire to play or to gain approval can help promote increased intake.

Excessive coughing, clearing the throat, or vomiting may disrupt the operative site.

Teaching ensures that parents will continue to monitor fluid balance.

activity, and when to seek medical care (specify caregiver's orders).

NIC: Fluid Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide intake and output specifying time frame. Is there any bleeding from operative site?)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Invasive procedure.

Defining Characteristics: (Specify date/type of surgery; client statements about pain [use quotes], pain rating on a scale [specify which scale is used]; nonverbal indications of discomfort such as grimacing, crying, clinging to parent.)

Goal: Child will experience decreased pain by (date/time to evaluate).

Outcome Criteria

√ (Specify, e.g., child states pain is less; rates pain lower on same scale; child not grimacing, crying, or clinging to parent.)

NOC: Pain Level

INTERVENTIONS

RATIONALES

Assess pain using appropriate pain scale for child's age and development (specify).	Use of a pain scale allows objective measurement of subjective pain perception.
Observe child for nonverbal indications of pain such as crying, grimacing, irritability.	Provides additional information about pain. Child may find speaking causes discomfort.
Administer pain medications as ordered (specify drug, dose, route, and time). Monitor for effectiveness and side effects (specify when).	Specify action of medication in relieving pain.
Encourage child to try placing an ice collar on the neck or to eat frozen pops.	Cold causes vasoconstriction and reduces edema that contributes to pain.
Suggest quiet activity such as listening to music, watching TV (specify).	Provides distraction from discomfort.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did child report decreased pain? How did child rate pain? Describe nonverbal behavior.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE: POSTOPERATIVE HOME CARE

Related to: Lack of information about tonsillectomy and postoperative care.

Defining Characteristics: (Specify, e.g., parents state or demonstrate lack of understanding of how to care for child after surgery.)

Goal: Parents will gain the knowledge to care for the postoperative child safely at home by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of postoperative care information.

√ Parents demonstrate appropriate postoperative care of child (specify, e.g., encouraging child to drink 30 cc/hr).

NOC: Knowledge: Treatment Regimen

INTERVENTIONS

Assess parents' understanding of the illness and treatment.

Allow time for teaching, use a variety of methods (specify, e.g., written instructions, pictures, verbal instruction), encourage questions and reassure parents about child's condition. Activitien Facilitates learning by e parents' comfort. A var methods ensures that ev illiterate parents will receive appropriate tea

Provide information about the surgery as needed. Teach parents that an important risk after a tonsillectomy is excessive bleeding from the operative site. Teach to observe for excessive swallowing and to encourage the child to avoid putting anything in the mouth, and to avoid excess coughing and clearing the throat.

RATIONALES

Provides baseline information
 about parents' comprehension
 of illness.
Facilitates learning by ensuring
 parents' comfort. A variety of
 methods ensures that even
 illiterate parents will
 receive appropriate teaching.

Provides necessary information for parents to recognize and prevent complications.

Provide physician's instructions regarding any bleeding (specify). Instruct parents to keep the child quiet for the first few days (specify physician's orders) and inform when the child may return to school (specify).	Provides information to prevent complications.
Teach parents to encourage child to drink clear liquids the first day, advance to soft foods as per physician's preference (specify). Show parents how to evaluate for dehydration; how to monitor intake and output and test skin turgor.	Provides information to prevent dehydration.
Provide medication teaching as needed (specify drug, dose, route, and times ordered) and instruct parents to avoid giving the child aspirin.	Specify action of medications. Aspirin may interfere with blood clotting.
Provide phone numbers in case parents have additional questions after discharge.	Provides additional information as needed.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

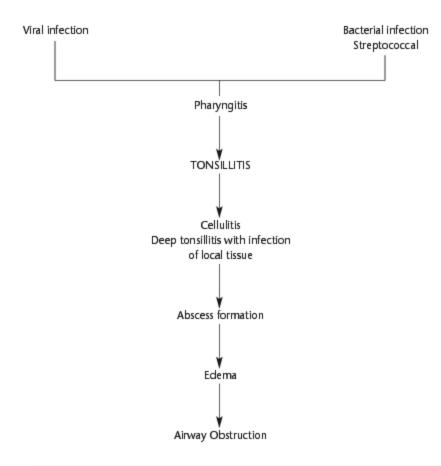
(Has goal been met? Not met? Partially met?)

(Did parents verbalize understanding of care? Provide quotes. Describe parental behavior which indicates understanding of teaching.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR TONSILLITIS

TONSILLITIS



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CHAPTER 3.11 - TRACHEOSTOMY

INTRODUCTION

The surgical creation of an opening in the trachea between the second and fourth rings is known as a tracheostomy. In children, it may be done to provide an airway to by-pass an acute upper airway obstruction (subglottic stenosis, vocal cord paralysis, epiglottitis, croup) or for long-term mechanical ventilation administration. A plastic tube that softens at body temperature, usually without an inner cannula, is inserted in place and anchored with long sutures taped to the chest during surgery. These sutures remain in place for five days to hold the stoma open until a tract is formed in the trachea and skin. Routine care includes suctioning, cleaning and changing the tracheostomy tube, changing the ties that hold the tube in place, and dressing changes. Temporary tubes are removed when the condition permits and they are no longer needed. Long-term tubes are removed by weaning to the smallest tube with subsequent occlusion of the tube for a day and then final removal.

MEDICAL CARE

Cleansing Agents: hydrogen peroxide at half strength to cleanse around the stoma.

Oxygen Therapy: supplements oxygen when ventilator removed for procedures to prevent hypoxemia, administered with humidication.

Emergency Endotracheal Intubation: procedure done to provide airway in an emergency situation until crisis is resolved or tracheostomy is performed.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial secretion, obstruction.

Defining Characteristics: (Specify: abnormal breath sounds [crackles, wheezes], change in rate or depth of respirations, dyspnea, cyanosis, tube dislodgement or decannulation, tube occlusion, viscous secretion.)

See IMPAIRED GAS EXCHANGE

Related to: Altered oxygen supply.

Defining Characteristics: (Specify: hypoxia, hypercapnia, inability to move secretions, improper suctioning procedure.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Presence of tracheostomy.

Defining Characteristics: (Specify: secretions around tracheostomy tube; rash or redness around site; low environmental humidity; dry, crusting secretions around site; mechanical factor of pressure and irritation of tube movement.)

See INEFFECTIVE BREATHING PATTERN

Related to: Tracheobronchial obstruction, anxiety.

Defining Characteristics: (Specify: tube occlusion or accidental decannulation, dyspnea, tachypnea, respiratory depth changes, viscous secretions, nasal flaring, accessory muscle retractions.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENT

Related to: Inability to ingest food.

Defining Characteristics: (Specify: poor feeding with tube in place, difficulty swallowing, choking.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Threat to self-concept (tracheostomy); change in health status.

Defining Characteristics: (Specify: increased apprehension, fear of procedures to care for tracheostomy, uncertainty about possible respiratory status changes, expressed feelings of distress over presence of tracheostomy.)

Goal: Clients will experience decreased anxiety by (date/time to evaluate).

Outcome Criteria

 \checkmark Reduced parental and child anxiety verbalized.

NOC: Coping

INTERVENTIONS	RATIONALES
Assess level and manifestations of anxiety in parents and child.	Provides information needed for interventions and clues to severity of anxiety.
Allow parents and child to express	Provides opportunity to vent
fears and concerns and to ask	feelings and secure information
questions about disease and what to expect.	to reduce anxiety.
±	
Provide supportive and nonjudgmental environment.	Promotes trust and reduces anxiety.
Encourage parents to stay with	Reduces anxiety by allowing
child, allow open visitation and	presence and involvement in
telephone communications;	care, familiar routines and
encourage to participate in care	persons for child.
that is planned around usual home routines.	
Inform of all procedures and care	Reduces anxiety caused by fear of

and any changes in the child's condition. Provide child with pencil and paper, pictures, slate as age allows (specify). Provide child with medical play objects such as a doll with a tracheostomy, suction catheters, tracheostomy tubes and ties, as applicable (specify). Allow child to assume position of comfort, provide familiar object (toy or blanket). Provide child/parents tours of the PICU and the floor prior to the surgical procedures as applicable. Inform of disease process and behaviors and physical effects and symptoms of tracheostomy; assure parents that tracheostomy will facilitate breathing. Explain to parents and child in agerelated fashion reason for tracheostomy procedure or therapy, effects of presence of tracheostomy, how procedures are performed (specify). Clarify any misinformation with honesty and in simple understandable language. Refer to counseling, community groups or agencies (specify).

the unknown.

Provides means of communication and interaction with the child.

Provides child the opportunity to have hands on experience with supplies; improves their understanding of procedures; gives health care professionals some insight into the child's understanding of the procedure. Promotes comfort and security.

Promotes understanding of what to
 expect which may help to
 decrease anxiety.
Relieves anxiety by knowing what
 to expect, especially if
 tracheostomy is long-term.

Reduces anxiety caused by fear of unknown.

Prevents any unnecessary anxiety resulting from inaccurate information or beliefs. Reduces anxiety by providing to parents and child support and information from those with similar problems.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients verbalize decreased anxiety? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Invasive procedures (tracheostomy and care).

Defining Characteristics: (Specify: stasis of secretions, suctioning tracheostomy, redness, excoriation, swelling and drainage at tracheostomy site, change in breath sounds and sputum, increased temperature, presence of infection of family members.)

Goal: Client will not experience infection by (date/time to evaluate).

Outcome Criteria

 \checkmark Client's temperature remains <100° F.

 \checkmark Breath sounds and secretions remain clear.

NOC: *Risk Control*

INTERVENTIONS

RATIONALES

Indicates presence of

respiratory infection.

Assess for change in breathing pattern, color of mucus, diminished breath sounds, ability to cough and raise secretions (specify when). Avoid exposure to persons with respiratory infection, isolate

- from infectious patients or family members.
- Utilize good handwashing technique before giving care or performing procedures.

Demonstrate handwashing technique to parents and child and allow for return demonstration.

Assist to cough or remove secretions by suctioning via sterile technique.

Use medical asepsis techniques or sterile technique when administering tracheostomy and site care (specify).

Change tracheostomy dressing, tube, and ties when soiled, wet, or encrusted with secretions as needed.

Administer antibiotic therapy if ordered. (Specify drug, dose, route, and times ordered.)

Obtain sputum or wound drainage culture, send to lab.

Prevents increased susceptibility and risk for infection. Prevents transmission of microorganisms to child. Prevents cross-contamination by hands.

Stasis of secretions provide medium for infection.

Prevents exposure to infectious agents.

Maintains cleanliness of wound and removes risk of contact with infectious agents.

Provides protection from or treatment of infection by destroying or inhibiting growth of microorganisms (specify). Identifies presence of

pathogenic organisms.

Teach parents of child's susceptibility to infection and to avoid contact of child with persons or family members with respiratory infections.

Encourage parents to provide humidity to environment by vaporizer.

Inform parents to provide adequate
 fluid and nutritional intake based
 on age (specify).

Teach parents to report any changes in sputum, respiratory status, skin at tracheostomy site to physician.

Instruct parents and allow for demonstration of sterile or clean technique.

Provides information that any infection will compromise respiratory status and could be life-threatening.

Provides humidity normally
 obtained through mouth and
 pharynx.
Maintains fluid and nutritional
 requirements of infant/child.

Provides for immediate interventions to control infection.

Promotes sterility or cleanliness of procedures based on healing of tracheostomy site.

NIC: Infection Protection

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Describe breath sounds and secretions.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR ASPIRATION

Related to: Presence of tracheostomy or endotracheal tube.

Defining Characteristics: (Specify: impaired swallowing, vomiting, choking.)

Goal: Client will not aspirate by (date/time to evaluate).

Outcome Criteria

 \checkmark Client swallows meals without choking, coughing, or changing color.

NOC: Risk Control

INTERVENTIONSRATIONALESAssess ability to swallow, type ofProvides information about

<pre>food consistency (solid or formula), age of child. Offer small amounts of liquids initially and follow with increases as tolerated; add cereal to infant formula or offer thick milkshakes to child (specify).</pre>	potential for choking or aspiration. Provides fluids and nutrients of a consistency that is best managed and swallowed to prevent choking.
Place in upright or sitting position for feedings (or place on lap or in infant seat); allow to remain in position for 30 minutes afterwards.	Promotes flow of fluids and foods by gravity.
If choking occurs, suction fluids from mouth and airway; avoid suctioning procedure after feedings.	Removes fluid or food from airway to prevent aspiration; suctioning after feedings may cause nausea or vomiting.
Instruct parents in types of foods and liquids to offer infant/child.	Promotes nutrition requirements that are easier to tolerate and swallow with tube in place.
Teach parents actions to take when choking occurs; positions that are most effective, procedure for feeding (specify).	Prevents aspiration of fluid or food into airway.
Teach parents to suction airway if choking, perform after other measures have failed.	Removes fluid or feedings from airway.
Inform parents to notify physician in presence of respiratory distress.	Prevents life-threatening situation caused by suffocation.

NIC: Aspiration Precautions

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did client swallow meal without choking, coughing, or changing color?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Tracheostomy complications.

Defining Characteristics: (Specify: damage to tracheal mucosa by inappropriate suctioning, excessive movement or dislodgement of tube, accidental decannulation.)

Goal: Client will not experience injury related to tracheostomy by (date/time to evaluate).

Outcome Criteria

 \checkmark Absence of respiratory distress (define).

 \checkmark Tracheostomy tube remains in place and patent.

NOC: Risk Control

INTERVENTIONS

RATIONALES

- Ensures effective tube function to Assess for proper tube placement, presence of an air leak around tube, patency of tube (specify when/how). Assess security of tapes and knots, tightness of tapes by inserting small finger between tape and neck (when?). circulation. Assess need for suctioning by noting change in breath sounds and respiratory rate, depth, and ease. Assess stay sutures if new tracheostomy by noting security of tapes on side of neck, any movement or dislodgement of tube. Hold tube in place when dressing changed, ointment applied under wings of tube, changing tapes, or suctioning tube. Restrain if appropriate developmentally and if needed; inform parents and child of reason. Monitor skin under restraints per protocol (specify). Suction carefully and intermittently, use proper catheter size and technique (specify). Provide spare tracheostomy tube, scissors, bag, and proper sized mask and adaptor, oxygen source, and suctioning equipment at bedside. Change tapes 3 days after surgery and tube 2 weeks after surgery per
- physician order, with 2 nurses present or respiratory therapist. Change tube if obstructed, reinsert new tube if dislodged; have 2 people
- Promotes safe use of ties to stabilize tube, which should not be frayed and should fit snugly without compromising Allows for removal of secretions to prevent obstruction and respiratory distress. Ensures safe placement of tracheostomy tube and prevents dislodgement. Prevents manipulation of tube that causes mechanical irritation and may dislodge tube. Prevents child from pulling tube out accidentally; prevents injury. Clears airway and tube of secretions without damage to trachea, prolonged suctioning causes vagal stimulation and bradycardia and high pressure may damage mucosa of trachea. Provides for emergency interventions for airway obstruction or decannulation.

provide airway for ventilation.

- Ensures safety of procedures with help at hand if needed.
- Maintains effective tube functioning and airway patency.

present.

- Teach, demonstrate, and allow parents to return demonstration of the tube change (insertion and removal) to be done every month or as needed, tube ties change, suctioning and cleansing of tube if long-term care needed.
- Teach parents of positive effects of tracheostomy, such as ease of breathing, improved rest and feeding, progress in developmental tasks.
- Teach parents of equipment and supplies to have on hand. Assist family to obtain needed equipment.
- Inform parents to clothe child in loose-fitting clothing around neck with no loose threads or frayed material, remove crumbs, beads or dangerous toys, careful bathing with elimination of water near tube; cover tube with bib when drinking or eating meals.

Instruct parents to report any swelling or bleeding around tube, increased respiratory effort, change in skin color, absence of air moving in and out of tube, inability to insert suction tube, excessive choking during feeding.

NIC: Airway Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about respiratory status. Is tracheostomy tube in place and patent?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of understanding of the care necessary for a child at home with a tracheostomy; impending discharge of child to home.

Promotes continuity of care by

parents if able to perform

Provides emotional support to

Prevents obstruction of tube or

entry of foreign materials.

Prevents complications that may

compromise respiratory status.

parents and family.

Provides support for any

physician; promotes independence

and control of family in child's

skills and approved by

care.

emergency.

Defining Characteristics: (Specify: parents request information regarding care of the child at home; child returns to the hospital because of

problems encountered during/with caregiving at home.

Goal: Parents will gain knowledge about caring for the child with a tracheostomy by (date/time to evaluate).

Outcome Criteria

 $\sqrt{Parents}$ verbalize and demonstrate proper care of tracheostomy: site assessment, suctioning techniques, site care, tube changes, and emergency protocols (specify).

NOC: Knowledge: Treatment Regimen

INTERVENTIONS

RATIONALES

Instructions should be in short
 sessions, tailored to parents'
 specific learning styles and needs;
 written materials should be given
 after each session if literate.
Notify local utilities and EMS
 regarding the child's condition.

Facilitate the acquisition of necessary supplies and equipment needed at home, including suction apparatus, oxygen, pulse oximetry, and so forth; coordinate the necessary teaching regarding the equipment as applicable.

Contact local home health nursing agencies, as applicable; facilitate arrangements.

Demonstrate all aspects of tracheostomy care for the child (if applicable), family, and other significant caregivers; observe return demonstrations; teaching should include: tracheostomy site assessment, suctioning techniques, tracheostomy site care, tracheostomy changes, and emergency protocols.

Instruct all caregivers on CPR, with return demonstrations encouraged; reinforce with written materials or video.

Teach and encourage the family to treat the child as normally as possible, including information on growth and development, discipline, school, sibling reactions, the importance of play, and trips Understanding will be improved when sessions are short and individualized; written materials reinforce learning and improve comprehension. Response time may be heightened if the appropriate personnel are notified in advance. Ensures appropriate supplies and equipment are available at discharge; promotes understanding of how equipment works. Promotes feelings of control and decreases anxiety within parents; discharge is often a time of higher stress for parents, and they can become easily overwhelmed. Including all family members and significant others may help expand the level of support felt by the immediate family; stress will be decreased if they have a sense that they can have some time away, while still leaving the child in good hands.

Promotes increased understanding of emergency resuscitation needs of patient; prior knowledge of CPR may reduce stress felt by the family. Promotes normalcy within the family which facilitates positive adaptation; lessens anxiety and stress. outside the home. Teach child and parents vocalization techniques as applicable. Promotes communication which enhances self-esteem and facilitates normal growth and development.

NIC: Teaching: Procedure/Treatment

Evaluation

(Date/time of evaluation of goal)

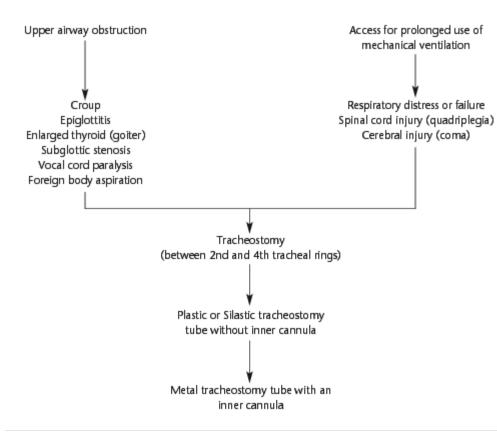
(Has goal been met? Not met? Partially met?)

(Did parents verbalize and demonstrate proper care of tracheostomy: site assessment, suctioning techniques, site care, tube changes, and emergency protocols?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR TRACHEOSTOMY

TRACHEOSTOMY



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CHAPTER 3.12 - TUBERCULOSIS

INTRODUCTION

Tuberculosis (TB) in children is usually contracted from an infected adult by droplets expelled from the respiratory tract and dispersed into the air. Although the incidence and death rate from TB are greater in other parts of the world, there has been an increase of cases in the United States. Rates are high among migrant workers, the homeless, and those who are HIV-positive. Most cases are managed at home with drug therapy. Only patients with more serious forms of the disease or who need special diagnostic tests are hospitalized.

MEDICAL CARE

Anti-infectives/Antituberculosis: isoniazid (INH) in combination with rifampin or pyrazinamide to inhibit bacterial growth (bacteriostatic action).

Skin Tests: intradermal Mantoux test (purified protein derivative (PPD)) to screen for sensitivity to the bacillus as a result of past exposure, or to test for suspected tuberculosis. The American Academy of Pediatrics (2000) does not recommend tuberculin skin testing of children with no TB risk factors who live in communities with a low prevalence of TB.

Sputum or Gastric Washing Culture: identifies causative agent in sputum coughed up from lower respiratory tract in children or fasting gastric contents in infants or young children who swallow sputum.

Chest X-ray: reveals tuberculosis lesion if disease is suspected, but radiography results are difficult to differentiate from other diseases.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food because of biologic, economic factors.

Defining Characteristics: Inadequate food intake, lack of food availability, pyridoxine deficiency as result of drug therapy.

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE: DISEASE PROCESS

Related to: Unfamiliarity with disease and treatment.

Defining Characteristics: (Specify: verbalization of need for information about medications, activity and rest, nutritional requirements, and infection transmission prevention.)

Goal: Parents will obtain knowledge about tuberculosis by (date/time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding about tuberculosis and planned treatment.

 \checkmark Parents demonstrate correct medication administration (specify drugs, dose, routes, and times).

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

- Assess knowledge of disease and methods to control and resolve disease.
- Provide information and explanations in clear, understandable language; use pictures, pamphlets, video tapes, model in teaching about disease.
- Teach about administration of medications, including action of drugs, dosages, times, frequency, side effects, expected results, methods to give medications; provide written instructions and schedule to follow (specify).
- Instruct and assist in planning feedings and/or developing menus for appropriate inclusions of meat and milk and daily caloric and basic four requirements for age group.
- Teach about activity or activity restrictions and adequate rest during convalescence (specify).
- Provide information about limiting competitive and contact sport activities when the disease is active.
- Teach about care of used tissues and to cover mouth and nose when coughing or blowing nose, proper handwashing technique.
- Teach parents about prevention of unnecessary exposure to other infectious diseases, including maintaining the appropriate

- Promotes plan of instruction that is realistic; prevents repetition of information. Ensures understanding based on
- readiness and ability to learn; visual aids reinforce learning.
- Provides information about drug therapy which is the most important treatment for the cure of tuberculosis and is administered for at least 9 months during the course of the disease and for 6 months after negative cultures secured; isoniazid alone or in combination with other antituberculosis drugs administered for active tuberculosis and conversion from negative to positive skin testing.
- Ensures proper diet that enhances health status, and adequate amounts of meat and milk supply vitamin B₆ (pyridoxine) in those receiving isoniazid to prevent peripheral neuritis.
- More rest and possible restrictions of activity needed during active stage of disease, but school or nursery school attendance is encouraged if asymptomatic.
- Promotion of optimal health without injury will enhance complete recovery.
- Prevents transmission of microorganisms by droplets dispersed into the air.
- Promotes the body's own defenses;
 prevents secondary infection and/or
 complications.

immunizations as applicable (specify). Provide information about testing family members and follow-up skin tests for exposed contacts.	Provides early detection of disease and possible source of disease, and prevents potential spread of disease.
Provide parents information on isolation procedures, as needed, during the active stage of the illness (specify).	Prevents transmission of the disease.
Reinforce to parents the importance of maintaining the treatment regimen over long period of time; offer information and support for continued care.	Recovery requires extended period of time and support helps to ensure compliance with regimen.
Teach parents about protecting the child from stressors, including parental anxieties.	Promotes body's own use of natural defenses; stress may further weaken those defenses.
Encourage parents to verbalize and demonstrate understanding of teaching. Provide praise and support to family.	Reinforces teaching and promotes optimal caregiving.

NIC: Teaching: Disease Process

Evaluation

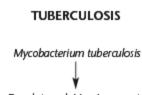
(Date/time of evaluation of goal)

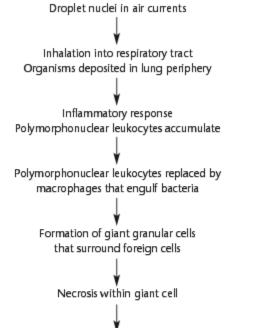
(Has goal been met? Not met? Partially met?)

(Did parents verbalize understanding about tuberculosis and planned treatment? Provide quotes. Did parents demonstrate correct medication administration?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR TUBERCULOSIS



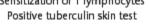


Calcification of lesion Formation of granuloma (tubercle)

Scar tissue encapsulates tubercle to separate it from body

Sensitization of T lymphocytes

Death of microorganisms



Bacilli spread throughout lung Caseous necrosis Clinical tuberculosis

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CHAPTER 3.13 - ALLERGIC RHINITIS

INTRODUCTION

Allergic rhinitis is an episodic or perennial upper respiratory tract condition characterized by sneezing, itching nose and eyes, and discharge from the nose and throat. Chronic nasal stuffiness and obstruction to airflow cause mouth breathing, otitis media, and eustachian tube abnormalities. Allergic rhinitis may manifest itself at any age in childhood.

MEDICAL CARE

Antihistamines (H1 receptor antagonist): given alone or in combination with a decongestant for nasal congestion and cough.

Antihistamines (phenothiazine derivatives): given to prevent action of histamine, which provides relief from allergic conditions.

Decongestants: nose drops or spray for older infants (over 6 months) and children; pseudoephedrine given for children over 2 years of age to relieve nasal congestion and clear passages; nose drops reduce swelling by vasoconstriction resulting from topical application.

Skin Tests: identify allergic responses and sensitivities to antigens as a basis for desensitization therapy.

Nasal Culture: reveals presence of eosinophils.

Biopsy of Nasal Mucous Membrane: reveals eosinophils and abnormal mucosa.

RAST Test: reveals and measures the immunoglobulin.

COMMON NURSING DIAGNOSES

See INEFFECTIVE BREATHING PATTERN

Related to: Inflammatory process, obstruction.

Defining Characteristics: Nasal stuffiness and obstruction, mouth breathing, mucus secretion and drainage, respiratory changes, breathing difficulty.

See DISTURBED SLEEP PATTERN

Related to: Internal factors of illness.

Defining Characteristics: (Specify: interrupted sleep, irritability, restlessness, inability to breathe through nose).

ADDITIONAL NURSING DIAGNOSES

RISK FOR INFECTION

Related to: Chronic disease (allergy).

Defining Characteristics: (Specify: nasal discharge; red, itchy conjunctiva; purulent discharge from nose or eyes; allergic shiners [dark areas under eyes], frequent colds, otitis media with pain and temperature elevation; pharyngitis.)

Goal: Client will not experience an infection by (date/time to evaluate).

Outcome Criteria

√ Temperature <100° F.

 \checkmark Secretions remain clear.

NOC: Risk Control

(specify when).

INTERVENTIONS

Assess for rubbing of nose, nasal discharge and its characteristics (clear, amount, purulent), dark areas around eye, nose itching and pushing hand up and back of nose, frequent sneezing, red and itchy eyes and drainage or watering

- Inspect nasal passages and throat with penlight for redness, swelling, and presence of mucus and/or exudate; check skin around nares for redness, irritation (when).
- Assess for knowledge and use of preventive measures needed to avoid spread of microorganisms.
- Assess for frequency of upper respiratory infections among family members; attendance at school, daycare, nursery school.
- Assess use of over-the-counter medications and type used.

Provide vaporizer or humidifier if nasal and oral mucous membranes are

RATIONALES

Provides information about physical and behavioral effects of allergic rhinitis; chronic nasal obstruction causes edema and discoloration of the eyes and mouth breathing, wrinkling of face is caused by attempt to avoid rubbing or scratching of nose. Reveals inflammation and risk of infection spread.

- Provides basis for information needed for health maintenance.
- Persistent reinfection usually the result of repeated exposures to microorganisms.
- Combination products are not particularly useful; symptomatic treatment more effective in controlling upper respiratory responses; overuse of some medications may cause undesirable side effects (drowsiness) or rebound effects (return of symptoms). Maintains moist mucous membranes to
- Maintains moist mucous membranes to prevent breaks and soreness.

dry.

- Administer antihistamines and immunotherapy if ordered alone or in combination with decongestants (specify).
- Teach handwashing technique after exposure to nasopharyngeal secretions (sneezing, blowing nose).
- Instruct in disposal of tissues used for cough or nose wiping.

Inform to avoid contact with infected people or family members, although transmission commonly occurs in families, schools, nursery schools, recreational gatherings.

- Instruct parents in administration of medications via oral and inhalation routes (specify).
- Instruct to administer all of the antibiotic prescribed for infection (if present).
- Teach about desensitization injection schedule.

Teach parents measures to control environment (air conditioning; removal of dust, pets, smoke).

Inform to notify physician if the temperature increases, ear hurts, throat is sore or nose has purulent drainage.

NIC: Infection Prevention

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Describe secretions.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR ALLERGIC RHINITIS

Provides control of the symptoms when exposed to allergens.

Hands found to be most common carrier of microorganisms.

Prevents transmission of microorganisms. Prevents exposure to the infectious agent, although isolation is not realistic within a family.

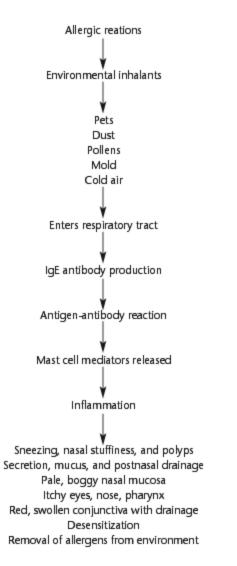
Ensures compliance with medication regimen to control symptoms and prevent infection.

Ensures effective treatment of bacterial infection for prompt response within 24 hours after antibiotic administration.

Allays child's anxiety and fear caused by injections.

- Supports environment free of allergens or irritants that cause attacks.
- Allows for immediate interventions to treat at complications.

ALLERGIC RHINITIS



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UNIT 4 - GASTROINTESTINAL SYSTEM

CHAPTER 4.0 - GASTROINTESTINAL SYSTEM: BASIC CARE PLAN

INTRODUCTION

The gastrointestinal (GI) tract is a long passageway that functions to allow ingestion, digestion, and absorption of nutrients and fluids, and elimination of solid wastes from the body. The components of the GI tract are the mouth, teeth, salivary glands, esophagus, stomach, small intestine, pancreas, liver, gallbladder, large intestine, and anus. Inherited defects in structure or function, or infection, physiologic and psychological factors may affect ingestion, digestion, or elimination. The system is a common site of minor disorders in infants and children.

GASTROINTESTINAL GROWTH AND DEVELOPMENT

• Tooth eruption in infancy at 6 to 8 months with the primary set of teeth completed by approximately 2 years of age.

• Striated muscles in the throat develop by 6 weeks of age and cerebral connections are developed at 6 months of age to assist in swallowing, which is a reflex activity up to 3 months of age and is stimulated by the flow of milk into the mouth. A coordinated muscular action of swallowing and sucking is necessary.

• Sucking pads present in cheeks to assist sucking and remain until sucking not needed to obtain nutrition.

• Stomach is round in shape until 2 years of age, elongates until 7 years of age when it assumes shape and position of an adult.

Stomach capacity increases:

Newborn: 10 to 20 ml

1 to 3 weeks: 30 to 100 ml

1 to 3 months: 90 to 200 ml

1 to 2 years: 200 to 500 ml

10 years: 750 to 900 ml

• Cardiac sphincter is immature and relaxed in infant causing regurgitation; as digestive system matures, this "spitting up" is outgrown by 6 to 7 months of age.

• The intestinal tract in the infant and young child is longer than in the older child and the musculature and sphincters are underdeveloped with a deficiency of elastin fibers in the very young child.

- Growth of the intestines increases between 1 to 3 years of age.
- Digestive and absorptive surfaces are completely developed at birth.

• The liver may sometimes be palpated 1 to 2 cm below the right costal margin in infants and young children. Palpation of the liver 3 cm or more below the costal margin indicates abnormal enlargement.

• Sucking and swallowing are reflex activities without voluntary control until 3 months of age. Infants are capable of swallowing, holding food in the mouth and spitting food out of mouth by 6 months of age; swallowing becomes more coordinated and solid foods more acceptable with growth.

• Chewing begins with eruption of primary teeth at about 6 months; a sense of taste with response to sweet and sour solutions is present at birth; sweet taste increases sucking and other tastes decrease sucking.

• Stomach empties in 3 to 4 hours (breast milk faster than formula) in infant and 3 to 6 hours in older infant and child; begins to enter small intestine in 1 to 2 minutes after ingestion.

• Immature system allows food to be propelled through system rapidly resulting in bowel elimination frequency and watery stools as water not absorbed as well as in older child; stool less frequent and more regular and becoming firmer as system becomes more efficient during the first year.

• Intestinal flora introduced through the mouth and established by 2 days of life.

• Stool changes from meconium to greenish black, greenish brown, greenish yellow (transitional stools) and then become yellowish and pasty in breast-fed infants and paler yellow in infants fed formula.

- Salivary glands increase in size and mature in function by 3 years of age.
- Gastric secretions increase in acidity with composition the same as an adult by 10 years of age.
- Pancreatic amylase and lipase are deficient in infant and affect utilization of complex carbohydrates, and absorption of fats.

• Liver function increases as growth takes place and liver matures; limited ability to conjugate bilirubin which may result in jaundice, but able to conjugate bilirubin and secrete bile by 2 weeks of age with bile composition mature at 6 months of age.

• Gluconeogenesis, formation of plasma proteins and ketones, storage of vitamins and the breakdown of amino acids by the liver achieved by 1 year of age.

- Basal metabolism rate is highest in infant and decreases as body increases in size; usually higher in boys than girls.
- Appetite decreases by 2 years of age as growth and metabolic rate slows and food requirements are reduced.
- Caloric requirements of child:

Infant: 110 to 120 cal/kg/day

Toddler: 1300 cal/day

Preschool: 1800 cal/day

School-age: 2400 cal/day

• Approximate weights (varies with sex, age frame, height):

Birth: $5^{1}/_{2}$ to 10 lb (2500-4600 gm) at full term

Birth weight doubled by 5 months, tripled by 1 year

Gains approximately 30 gm/day

• Length at birth for full-term infant: 18 to 22 in (45-55 cm)

Growth rate/year:

2nd year: 11 cm

3rd year: 8 cm

4th year: 7 cm

up to 10 years: 5 to 6 cm

NURSING DIAGNOSES

IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: inability to ingest or digest food or absorb nutrients because of biologic or psychological factors.)

Defining Characteristics: (Specify: loss of weight with adequate intake, lack of interest in food, anorexia, nausea, vomiting, diarrhea, congenital defect of gastrointestinal system, regurgitation, abdominal pain, dysphagia, inability in infant to suck and swallow, failure to thrive, malabsorption syndromes, growth and developmental changes [food jags, fads, ritualisms, rejection of solid foods], vitamin deficiency, increased metabolic demand, chronic illness, poor nutrient quality of food.)

Goal: Client will experience balanced nutrition by (date/time to evaluate).

Outcome Criteria

 \checkmark Adequate intake of appropriate nutrients for normal growth and development (specify).

 \checkmark Height and weight parameters met and maintained based on individual determinations (specify).

NOC: Nutritional Status: Nutrient Intake

INTERVENTIONS RATIONALES
Assess history of food intake (24-hour recall, amounts of food and formula evaluate nutritional pattern, habits

or breast milk; financial and cultural influences; vitamin/mineral supplement; food allergies.

Assess appetite changes (poor or excessive), presence of illness and diagnosis, effect of nutrition on skin, hair, eyes, mouth, head, muscles, behavior.

Assess height and weight, head circumference, skinfold thickness and arm circumference and compare with previous values and standard charts.

Assess difficulty in sucking, swallowing, chewing, gag reflex, teeth, oral mucous membrane, lips, and palate for abnormalities, presence of oral pain or infection. feeding.

Assess presence of nausea, vomiting and if spitting up, projectile; related to activity or intake or tension/stress; characteristics of vomits (bloody, bile, digested or undigested food), frequency and persistence, amount, associated conditions (diarrhea, fever, headache, motion sickness, anger, conflict with parent).

Assess abdominal girth, stool characteristics (odor, appearance), presence of diarrhea, bowel sounds for increased motility.

Place infant/child in position of comfort for feeding/meals: hold infant in arms or upright as condition indicates (cleft defect); child in sitting position at table within easy reach of food and with appropriate sized utensils (specify).

Offer feedings/meals as near usual to normal routine as possible; provide amounts (small when indicated) and frequency (infant feedings q 4h and and adequacy (deficiency or excess).

Indicates health status and effect of illness which requires an increase in nutritional needs and appetite that is affected by illness and may result in malnutrition.

Provides anthropometric information about body's fat and protein content and general nutritional status.

Provides information about ability to ingest foods or formula necessary for normal growth and development; inadequate dental care, oral inflammatory disorders, congenital defects (cleft lip/palate) interferes with

Provides information about emesis which affects nutrition and is controlled by the vomiting center in the medulla; causes include: blockage of the pylorus, reflex from incompetent esophageal sphincter, gastroenteritis, duodenal and gastric spasm, increased ICP, bowel obstruction, drugs and allergens; persistent losses may lead to fluid and electrolyte imbalance.

Provides information about ability to absorb foods; stool may be bulky and fatty in cystic fibrosis if bile flow obstructed and fats are not digested; diarrhea may cause carbohydrate malabsorption as motility increases and moves nutrients through the bowel before absorption takes place.

Provides most appropriate position to enhance movement of formula/solid food by gravity and peristalsis and to prevent vomiting and/or aspiration.

Promotes feedings/meals that are similar to established pattern and adjusted to special needs caused by specific illness or increased

progress to 3 meals/day with metabolic demand (fever, infection, introduction of solid foods at chronic illness, malnutrition). proper age); if ill, spread over 6 meals/day (specify). Request parent to bring foods from Promotes appetite and increased home if desired and serve in age independence and familiar types and appropriate quantities; allow child preparation of foods. to eat in a community setting with other children. Offer age appropriate food consistency Promotes ingestion and retention of and foods that are not irritating to foods and prevents exacerbation or oral, stomach, bowel mucosa; thicken increased severity of gastrointestinal disorders. formula with cereal when necessary; modify other foods specific to disorder (specify). Maintain NPO status (if prescribed), Provides rest for gastrointestinal provide infant with non-nutritional tract needed because of vomiting, sucking. diarrhea, preoperative preparation. Initiate and monitor IV administration Provides short-term fluid and of nutrients as prescribed (specify nutritional support via peripheral fluid, rate and site and use of vein in those who are unable to ingest or retain nourishment pump). (vomiting, diarrhea postoperative care). Initiate and monitor IV total Provides long-term fluid and parenteral nutrition as prescribed nutritional support via a right (specify). atrial catheter in a large vein in those who are nutritionally deficient as a result of a chronic disease (Crohn's disease) or negative nitrogen balance. Provides nutritional support for those Insert nasogastric tube and initiate and monitor tube feedings as with persistent weight loss; unable prescribed; initiate and monitor to chew, swallow, suck; who need an feedings and insertion site of increase in nutrients while ill, but gastrostomy if present (provide with intact digestive and absorption specifics). activity. Avoid excessive handling of an infant Prevents possible vomiting from after feeding. increased stimuli. Administer vitamin/mineral Provides or replaces necessary supplements, digestive enzymes, substances that may be deficient if antispasmodics, antibiotics absorption impaired, or be the cause (specify). of impaired digestion absorption; reduces peristalsis and infectious process affective nutritional status. Consult or refer with nutritionist as Provides support for the infant/ needed. child's special dietary needs. Instruct parents in the different food Promotes knowledge of needs that will intake at different ages, the amount ensure nutritional adequacy of

and types of foods appropriate to

age using the food guide pyramid,

child.

how food intake relates to growth and development.

Teach parents to avoid including sugar and salt in diet; offer nutritious between-meal snacks.

Teach parents about caloric needs for age of child and in weight and height measurement techniques (specify).

Teach about proper preparation and storage of foods; handwash before preparing or handling food.

Instruct parents in use of special devices or utensils for feeding or for self-feeding by child (specify).

Inform parents of need for food supplements and that the quality of food is more important than the quantity of food ingested.

Explain method of providing nutrition via IV or NG or gastrostomy tube (if used).

Discuss with parents how to wean child from breast or bottle, when to add solid foods to diet (specify).

Instruct parents in menu planning that is age appropriate, acknowledging food preferences, consistency and texture, finger and raw foods, and allow child to participate in planning. Maintains and promotes health status.

Promotes knowledge to ensure stable weight and gains proportionate to growth.

Prevents spoiling and contamination of foods that may cause gastrointestinal symptoms. Promotes food intake.

Ensures nutritional status and provides parents with realistic information about food intake.

Reduces anxiety by understanding of alternate method of supplying nutrients to infant/child. Provides information if needed about infant's diet changes.

Encourages inclusion of necessary foods and acceptance of foods offered.

NIC: Nutrition Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe intake based on outcome criteria. What is height and weight?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DIARRHEA

Related to: Dietary intake.

Defining Characteristics: (Specify: abdominal pain, cramping, increased frequency of bowel elimination and bowel sounds, loose, liquid stools,

urgency, intake of high fiber, spicy foods.)

Related to: Inflammation, irritation or malabsorption of bowel.

Defining Characteristics: (Specify: abdominal pain and cramping, increased frequency of bowel elimination and bowel sounds, loose, liquid, unformed stools, urgency, blood, mucus or pus in stools.)

Related to: Toxins, contaminants.

Defining Characteristics: (Specify: abdominal pain, increased frequency of bowel elimination and bowel sounds, loose, liquid stools, urgency, fever and malaise.)

Related to: Medications, radiation.

Defining Characteristics: (Specify: abdominal pain, increased frequency of bowel elimination and bowel sounds, loose, liquid stools, urgency, chemotherapeutic agents, external radiation treatments.)

Goal: Client will be relieved of diarrhea by (date and time to evaluate).

Outcome Criteria

 \checkmark Resolution of diarrhea with establishment of pattern of soft formed stool elimination (specify).

 \checkmark Absence of precipitating factors causing diarrheal episodes (specify).

NOC: Bowel Elimination

INTERVENTIONS

Assess normal pattern of bowel elimination and characteristics of stool (frequency, amount, consistency, presence of blood, pus, mucus, color change), presence of diseases or contact with contaminants, infective organisms, medications being taken.

Assess abdomen for distention palpation and bowel sounds for increases in auscultation (specify when).

Assess for temperature elevation, irritability, flaccidity, lack of expression, whiny cry, lethargy, anorexia, vomiting, eyes lackluster.

RATIONALES

Provides information about baseline parameters for comparison, reason for changes; diarrhea may be acute caused by an inflammation, toxin or a systemic disease and last about 72 hours, or chronic caused by inflammation, allergy, malabsorption, bowel motility changes or disease and last longer than 72 hours; antibiotic therapy may cause diarrhea as it destroys the normal flora in the bowel. Indicates a distended bowel with fluid and hypermotility of bowel which reduces the amount of material that is absorbed by the bowel mucosa. Provides information about signs and symptoms associated with diarrhea.

Assess for fluid loss with a light weight loss, dry skin and mucous membranes, poor skin turgor, serum potassium, sodium for decreases (specify when).

Obtain stool specimen for laboratory examination for toxins, ova and parasites, number of calories of infective organisms present; fecal analysis for occult blood, fat content; repeat specimen examination as needed to confirm presence of organism.

Place on enteric isolation and explain reasons why this is necessary until diagnosis is confirmed; maintain precautions if cause is identified as an infective organism.

Place on NPO, administer and monitor IV fluids and electrolytes (specify).

Administer oral rehydration fluids q 4 to 6 hours and increase or decrease depending on hydration status; volume should equal stool losses and as prescribed, and maintenance therapy includes the addition of breast milk or plain water for every 2 bottles of rehydration fluid (specify).

Encourage continuation or reintroduction of the child's regular diet as soon as possible.

Administer anti-infective therapy and antidiarrheals as ordered (specify drug, dose, route, and times; include therapeutic and side effects to monitor for.

Change diaper frequently as needed (in infant), expose buttocks to air and apply skin protective ointment to buttocks and perianal area in infants and anal area in children if irritated and sore; wash area with warm water after each diarrhea episode (commercial wipes may be used if skin not irritated).

Teach parents and child about enteric precautions including handwashing technique after bowel movement and before meals, disposal of and Indicates possible dehydration
 associated with fluid/electrolyte
 loss from frequent watery stools
 and vomiting and insensible fluid
 loss from fever that leads to
 metabolic acidosis.
Indicates possible cause of diarrhea.

Prevents undue anxiety and transmission of disease to others since bacterial and viral infections are the most common causes of diarrhea in children. Allows bowel to rest and IV replaces

lost fluids and electrolytes. Provides therapy of choice for milk

or moderate dehydration in infants.

A regular diet provides the nutrients the child needs and has been shown to have no adverse effects according to the American Academy of Pediatrics. Specify drug action.

Protects skin from excretions and secretions that are irritating and cause excoriation and skin breakdown.

Prevents transmission or spread of microorganisms causing diarrhea to others.

laundering of linens and articles contaminated by excrement, demonstrate and allow for return demonstration of handwashing.

- Teach parents signs and symptoms of dehydration or changes in characteristics of diarrhea and to report them to physician; diarrhea that becomes chronic or returns or diet that is not tolerated should be reported.
- Discuss proper refrigeration and handling of foods.
- Instruct parents on procedure to collect stool specimen and take to laboratory labeled properly.
- Instruct parents to stop milk and solid foods if diarrhea starts again and begin with sips of fluid and advance diet as before.
- Instruct parents in medication administration if prescribed and avoidance of medications in children under 12 years of age (absorbents, antidiarrheals).

- Provides for immediate treatment and prevention of severe complication of acidosis; diarrhea that persists longer than 12 to 24 hours in infant or longer than 48 hours in child should be reported.
- Preserves foods properly to prevent spoiling and possible source of diarrhea.
- Provides specimen examination to identify cause of diarrhea.
- Prevents recurrence of severe diarrhea or chronic type caused by intolerance to foods or effect of foods on diseased bowel.Promotes correct administration of antibiotics for some types of diarrhea and avoidance of medications that may cause toxicity or mask fluid losses and prolong diarrhea caused by infectious

agents by decreasing motility.

NIC: Fluid and Electrolyte Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe pattern and consistency of bowel movements. Have precipitating factors been eliminated? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

CONSTIPATION

Related to: Less than adequate dietary intake and bulk.

Defining Characteristics: (Specify: frequency less than usual pattern, hard, dry formed stool, decreased bowel sounds, straining at stool, decreased amount of stool, change from human to cow's milk in infancy.)

Related to: Personal habits.

Defining Characteristics: (Specify: environmental changes [school], stool withholding in young children, lack of privacy, inability of leisurely use of bathroom, not using bathroom when urge is felt by school-age children.)

Related to: Less than adequate physical activity or immobility.

Defining Characteristics: (Specify: frequency less than usual pattern, hard, dry formed stool, decreased bowel sounds, absence of stool, abdominal distention or rigidity or cramping, postoperative bed rest and immobility, bed rest status.)

Related to: Medications.

Defining Characteristics: (Specify: administration of diuretics, antacids, anticonvulsives, iron preparation to treat other conditions, diagnostic procedure using barium, hard, dry, less frequent stools.)

Related to: Neuromuscular or musculoskeletal impairment.

Defining Characteristics: (Specify: inability to feel urge to defecate, fecal impaction, hard, dry formed stool, locomotion impairment, inability to exert force necessary to defecate, painful defecation, mental retardation, poor and sphincter tone, paralysis, autonomic dysreflexia.)

Related to: Gastrointestinal obstructive lesions.

Defining Characteristics: (Specify: ribbon-like stools, less frequent or absence of stools, abdominal distention and pain, diminished or absence of bowel sounds.)

Goal: Client will obtain relief from constipation by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ Resolution of constipation with establishment of pattern of soft formed stool elimination depending on age (specify).

 $\sqrt{}$ Bowel elimination alteration (constipation) relieved and return of preoperative or prehospitalization pattern (describe).

NOC: Bowel Elimination

INTERVENTIONS

RATIONALES

Assess normal pattern of bowel elimination and characteristics of stool (frequency, amount, shape and consistency), presence of diseases, abnormalities of the bowel caused by congenital defects.

Assess abdomen for hard mass or distention, measure abdominal girth,

Provides information that indicates baseline parameters for comparison; frequency varies among children depending on age and foods ingested, but may be as few as 3 to 5/day in infant, as few as 6/week in child less than 3 years of age, and few as 4/week in older child; presence of constipation may be associated with disorders in children that lead to obstruction. Indicates accumulation of stool in bowel or reduction in peristalsis. diminished or absent (specify frequency). Assess for toilet training techniques, change in diet, change in environment. Assess for intentional stool withholding, discomfort in defecation, word the child uses to indicate need to defecate.

auscultate for bowel sounds that are

Assess parents' feelings about bowel habits and toilet training.

Provide privacy during bowel elimination.

Allow child to sit up during bowel elimination on a bedpan if necessary or on a commode or toilet if possible.

Encourage fluid intake and activity within limitations imposed by illness; add fruit, fiber, prune juice to diet (specify amounts).

Administer stool softeners, suppositories or isotonic enema as ordered for child (specify), explain procedure and what to expect to the child before administering.

Teach parents that daily bowel elimination is not necessary for a child and that straining is not always a symptom of constipation; that changes in bowel elimination pattern may be caused by illness.

Discuss with parents that child may suppress defecation as a result of bad experiences during toilet training; if punished for accidental soiling of clothing; that an illness or discomfort when defecating may cause a child to suppress defecation.

Teach parents and child in dietary inclusion of high fiber foods including cereals, grains, fruit, and vegetables, or add fiber to foods for child. Provides information that may lead to reasons for constipation.

Provides information about reason child might have for suppressing the urge to defecate.

Provides information about child's reaction to parental attitudes and may cause bowel elimination suppression.

Promotes elimination by preserving privacy that a child considers important for a very private and intimate activity.

Provides a normal position for easier bowel elimination; a bedpan may eliminate possibility of elimination.

Provides fluid and exercise for bowel motility and prevents hard, dry stool if water is reabsorbed because of lack of fluids, bulk in stool provided by fiber in the diet promotes motility.

Preparation by explanation encourages cooperation (specify action of drug).

Provides accurate information to replace beliefs or misinformation by expecting results that will frustrate child.

Provides information about behavior common to toddlers and preschool age children and constipation is developed and perpetuated when bowel contents are retained.

Provides bulk to increase motility in child; fiber absorbs water to soften stool.

Instruct parents and child to avoid excessive milk products, rice, apples and apple juice, bananas, gelatin which are constipating foods.	Provides information about foods that prevent resolution of constipation.
Teach parents and child to increase fluids, age appropriate, and as child gets older and milk amount is reduced, replace with other fluids.	Provides adequate fluid intake to soften stool and maintain bowel elimination.
Teach parents and child to maintain activity and instruct child in abdominal and rectal exercises.	Promotes peristalsis and muscle strength involved in bowel elimination especially if child is ill and on bed rest or has poor anal sphincter control.

NIC: Constipation Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe pattern and consistency of bowel movements. Has constipation been relieved and the elimination pattern returned to prehospitalization or preoperative patterns? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT FLUID VOLUME

Related to: (Specify: chemosensitive triggers medication, anesthesia, chemotherapy, toxins, increased ICP, inner ear disturbances, cerebral hypoxia, food intolerances, allergens, motion sickness.)

Defining Characteristics: (Specify: nausea, vomiting, perspiration, weight loss or gain, pallor, dehydration, fluid and electrolyte imbalance, anxiety, hopelessness, loss of control, tachycardia, abdominal cramping, early morning vomiting (ICP and metabolic disease), fever and diarrhea (infection), decreased urine output, fatigue, hypotension, thirst.)

Related to: Emotional stimuli triggers (unpleasant sights, odors, fright, anorexia, eating disorders).

Defining Characteristics: (Specify: weight loss, change in level of consciousness or headache, malnutrition, weight gain [overeating], psychogenic vomiting [after meals], nausea, perspiration, pallor, dehydration, fluid and electrolyte imbalance, anxiety, tachycardia.)

Related to: Visceral stimuli triggers (specify: irritation, inflammation, mechanical disturbance in GI tract or other related viscera, or GI pain).

Defining Characteristics: (Specify: chronic intermittent vomiting [malrotation], green bilious vomiting [bowel obstruction], curdled mucus or food, vomiting many hours after eating [poor gastric emptying or high intestinal obstruction], constipation [anatomic or functional obstruction], forceful vomiting [pyloric stenosis], localized abdominal pain, vomiting soon after meals [peptic ulcer disease], weight loss, nausea, perspiration,

tachycardia, anxiety, pallor, dehydration, fluid and electrolyte imbalance, fatigue, decreased urinary output.)

Goal: Client will experience adequate fluid volume by (date/time to evaluate).

Outcome Criteria

 \checkmark Denies nausea and vomiting.

 \checkmark Intake increased to (specify).

 \checkmark Elastic skin turgor and capillary refill <2 seconds.

NOC: Fluid Balance

INTERVENTIONS

RATIONALES

- Assess food frequency and 24 hour recall, oral fluids, medications, food likes and dislikes, financial and cultural influences, food allergies, food preparation methods.
- Assess onset of nausea and vomiting, quality, quantity and presence of blood, bile, food, and odor.
- Assess relationship of nausea and vomiting to meals, time of day or activities, and associated triggers.
- Assess for presence of associated symptoms: diarrhea, fever, ear pain, UGI symptoms, vision changes, headache, seizures, high pitched cry, polydipsia, polyuria, polyphagia, anorexia, and so forth; record intake and output, including all body fluid losses, IVs and oral fluids (specify frequency).
- Assess skin turgor, mucous membranes, weight, fontanelles of an infant, last void, and behavior changes.
- Maintain NPO status, if prescribed
 (specify).
- Initiate and monitor IV
 administration of nutrients as
 prescribed (specify).

Provides information to evaluate nutritional status, patterns, habits, and environmental influences on diet.

Provides information about emesis and defining characteristics.

- Provides information to identify factors related to time of fluid deficit.
- Provides information to identify associated medical conditions; indicates fluid status; increased output and decreased intake indicate a fluid deficit and need for replacement.

Provides information about hydration status; including extracellular fluid losses, decreased activity levels, malaise, weight loss, poor skin turgor, concentrated urine. Provides rest for the gastrointestinal tract because of

nausea and vomiting and associated medical conditions. Provides fluid and nutritional support to replace active fluid loss and prevention of fluid

Assess vital signs, including apical pulse (specify when).	overload. Provides monitoring of cardiovascular response to dehydration (weak, thready pulse, drop in blood pressure). Increased respiratory rate may contribute to fluid loss.
<pre>Initiate small amounts of clear liquids, as tolerated when nausea and vomiting subside; offer oral hydration fluids; breast-fed babies need frequent short feedings at the breast:Infant: 70 to 100 ml/kg in 24 hours, toddler: 50 to 70 ml/kg in 24 hours, school-age: 20 to 50 ml/kg in 24 hours.</pre>	Provides fluids in minimal amounts until nausea and vomiting resolved.
Gradually reintroduce other fluids	Allows for the gradual return to
and regular diet.	the expected dietary intake.
Monitor urine specific gravity, color, and amount every voiding or	Concentrated urine with an increased specific gravity
as ordered.	indicates lack of fluids to
	dilute urine.
Monitor laboratory data results, as	Allows identification of fluid
ordered (electrolytes, BUN, CBC, pH, etc.).	losses and electrolyte imbalances.
Administer medications (specify drug,	Specify action.
dose, route, and times) as ordered	
and evaluate effects/side effects.	
Position child on side or sitting up when vomiting; keep suction	Avoids aspiration of emesis.
available.	
Provide comfort measures (e.g., cool	Promotes comfort level and
cloth, clean linens, etc.).	distraction.
Administer or assist with good oral hygiene (brushing teeth, mouthwash	Provides moisture and comfort for drying oral mucosa.
or oral swabs).	drying orar mucosa.
Explain all interventions to child	Provides comfort, information,
and parents and provide	relieves anxiety, and decreases
psychological support. Assist child with activity and	feeling of powerlessness. Prevents injury and provides safety
position changes.	because of possible postural
Instruct percents recording source of	hypertension. Provides information for immediate
Instruct parents regarding causes of nausea and vomiting, signs of	treatment of excessive loss of
dehydration, and when to report	fluids and electrolytes caused by
them to the physician (specify).	nausea and vomiting.
Teach parents to position child	Provides information to promote
safely during vomiting episodes and to provide oral hygiene.	safety, oral hydration and hygiene.
to provide ordi mygiche.	mygrene.
NIC: Fluid Management	

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Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does client/parent deny nausea and vomiting? What is intake in time frame criteria? Is skin turgor elastic? What is capillary refill time?)

(Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 4.1 - APPENDICITIS

INTRODUCTION

Appendicitis is the inflammation of the appendix, a blind sac connected to the end of the cecum. It is caused most commonly by a fecalith (hard feces) and may result in obstruction which leads to ischemia, necrosis, perforation, and peritonitis. Surgical removal of the appendix (appendectomy) is performed as treatment for this disorder, preferably before rupture for a positive outcome. Surgery after rupture requires external drainage and management to reduce the spread of peritonitis. The condition commonly occurs in children over 2 years of age.

MEDICAL CARE

Narcotic Analgesics: after diagnosis has been made and postoperatively.

Analgesics (non-narcotic analgesics): acetaminophen given postoperatively to control moderate pain.

Antibiotics: ampicillin or other anti-infectives to prevent or treat peritonitis.

Abdominal X-ray: reveals presence of fecalith or other material in the appendix.

Abdominal Ultrasound: reveals abscess location if present.

Complete Blood Count: reveals increased WBC of 15,000 to 20,000/cu mm and increased neutrophils.

COMMON NURSING DIAGNOSES

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: excessive losses, NPO status postoperatively.)

Defining Characteristics: (Specify: vomiting, deviations affecting intake of fluids, elevated temperature, reduced urinary output, diaphoresis.)

See HYPERTHERMIA

Related to: Illness.

Defining Characteristics: (Specify: increase in body temperature above normal range, warm to touch, increased pulse and respiratory rate, flushing, abrupt rise in temperature with rupture of appendix.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: vomiting, anorexia, nausea, abdominal pain, presence of nasogastric function postoperative.)

See CONSTIPATION

Related to: Less than adequate physical activity.

Defining Characteristics: (Specify: bed rest following surgery, decreased or absent bowel sounds, frequency less than usual pattern, hard formed stool, abdominal pain.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Biologic injuring agents, inflammation.

Defining Characteristics: (Specify: verbal descriptor of pain, guarding and protective behavior of painful area, irritability, refusal to move or change position, crying, muscular rigidity, clinging behavior, side-lying position with knees flexed.)

Goal: The client will experience less pain by (date/time to evaluate).

Outcome Criteria

 $\sqrt{}$ Client rates pain less than (specify using an appropriate rating scale for age and development).

NOC: Pain Level

INTERVENTIONS

Assess severity of pain, generalized
abdominal pain descending to lower
right quadrant and localized at
McBurney's point with rebound
<pre>tenderness, reduced bowel sounds;</pre>
behaviors indicating pain with
psoas and/or obturator signs
positive. Ask child to rate the
pain using an appropriate scale for
the child's age and development.

Assess for severity of postoperative pain (specify when).

Assess for acuteness of abdominal pain that progresses to abdominal rigidity, abdominal distention, tachycardia, shallow respirations, fever, pallor.

Administer narcotic or non-narcotic

DARTONAT RO

RATIONALES
Provides information symptomatic of
appendicitis with pain being the
most common presenting complaint;
behaviors manifested by pain vary
with age with infant responding
with crying, facial expression of
pain and physical resistance;
young children responding with
crying loudly, clinging,
irritability, uncooperation, rigid
position, side-lying position with
knees flexed up to abdomen,
refusal to move.
Provides information needed to
administer most effective
analgesic therapy.
Indicates rupture of appendix and
peritonitis.

Promotes relief of pain depending on

analgesic preoperatively or postoperatively as ordered (specify drug, dose, route, and times).	severity, age and general condition (action of drug).
Avoid palpation of abdomen and unnecessary movements and care procedures of child.	Prevents increased pain and possible rupture of appendix.
Apply ice packs to abdomen.	Provides relief of pain.
Place in position of comfort; right side-lying or low to semi-Fowler's.	Promotes comfort to reduce pain; postoperatively will facilitate drainage if appendix has ruptured and prevent spread of infection.
Provide toys, games for quiet play.	Promotes diversionary activity to detract from pain.
Inform child that palpation will cause some pain and inform of any other procedures that cause pain.	Warns child of discomfort to expect and promotes trust of caretaker.
Explain cause of pain to parents and child and measures that are taken to relieve pain.	Promotes understanding of condition and reasons for treatments and medication.
Inform parents of behavioral responses to pain that child is manifesting and that as pain subsides, child will return to usual behavior patterns.	Promotes understanding of behavior changes common to an age group in presence of pain.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Inadequate primary defenses (e.g., ruptured appendix), invasive procedure (surgery).

Defining Characteristics: (Specify: spread of infection in peritoneal cavity, absent bowel sounds, diffuse abdominal pain followed by an absence of pain, abdominal distention, vomiting, increased pulse and respirations, fever, redness, swelling, drainage at incision site whether closed by primary intension (appendectomy) or open and draining (ruptured appendix).

Goal: Client will not experience infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Incision will be clean and dry, without redness, edema, or odor.

NOC: Risk Control INTERVENTIONS

RATIONALES Provides information indicating

- Assess closed incision site for redness, swelling pain, drainage, approximation of edges, healing (specify when). (Assess open incision site for drainage and characteristics, drain placement and patency, need for dressing change, specify when.) Administer antibiotic therapy IV
- as ordered (specify).
- Position in side-lying or semi-Fowler's.
- Redress incision wound using sterile technique as ordered.
- (Change dressings on open wound or reinforce as needed, use Montgomery straps to hold dressings in place.)
- (Apply warm, wet pack to open incision as ordered; specify.) (Irrigate open wound with
- antibiotic solution as ordered;
 specify.)
- Initiate wound isolation precautions.
- Inform parents and child of reason for infection and risk of spread of infection.
- Teach parents about incision care, dressing changes, removal of drainage, healing process. Teach parents and child that isolation is needed to prevent spread of infection and length of time isolation is carried out.

incision infection. (Provides information about

- effectiveness of wound drainage to prevent abscess formation and spread of peritonitis.)
- Destroys infectious agent with selection of medications based on culture and sensitivities of wound drainage.
- Facilitates drainage through wound drain and prevents spread of infection upward in abdomen. Promotes cleanliness of wound and prevents introduction of pathogens.
- (Maintains clean, dry dressings and allows for frequent changes without removing tape.)
- (Promotes circulation to the area and reduces inflammation.) (Cleanses wound and destroys pathogens.)
- Prevents transmission of infectious agents to or from the child. Promotes understanding and cooperation in treatments to prevent spread of existing infection or risk of infection of appendectomy incision. Promotes understanding of wound healing and progression to infection resolution. Promotes understanding of isolation techniques.

NIC: Incision Site Care

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Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe incision for: redness, edema, odor. Is incision clean and dry?)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Change in health status of child, hospitalization of child, possible surgery of child (specify).

Defining Characteristics: (Specify: increased apprehension that condition might worsen and appendix rupture, expressed concern and worry about impending surgery, need for IV, NPO and NG tube and other treatments and procedures while hospitalized, lack of information about postoperative care.)

Goal: Clients will experience less anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients report decreased anxiety (specify, e.g., no anxiety or mild anxiety only).

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

Assess source and level of anxiety and how anxiety is manifested; need for information that will relieve anxiety. Ask parents and child to rank their feelings of anxiety as none, mild, moderate, severe, or feelings of panic.

Encourage expression of concerns and questions about condition, procedures, recovery surgery by parents and child.

Communicate with parents and answer questions calmly and honestly; use

Provides information about anxiety level and need for interventions to relieve it; sources for the parents include fear and uncertainty about treatment and recovery, guilt for presence of illness; sources for child include separation from parents, procedures, fear of mutilation or death, unfamiliar environment; anxiety in the child may be manifested by crying, inability to play or sleep or eat, clinging aggression. Provides opportunity to vent feelings and fears and secure information to reduce anxiety.

Promotes calm and supportive trusting environment (development

pictures, drawings, and models for explanations to child (specify).	level).
Allow parents to stay with child and encourage to assist in care or open visitation.	Allows pare support o parental
Give parents and child as much input in decisions about care and routines as possible.	Allows for situatior
Teach parents and child about disease process, physical effects and symptoms of illness.	Provides ir anxiety k expect.
Explain reason for each pre and postoperative procedure or type of therapy, diagnostic tests, surgical procedure and rationales including IV, NG tube and dressings to parents and child as appropriate for age (specify).	Reduces fea anxiety.
Demonstrate and teach about wound care and dressing changes; allow for return demonstration; inform to protect dressing from diaper.	Ensures wou complicat recurrenc
Inform parents and child of activity restrictions and length of time before returning to school.	Ensures wou complicat recurrenc
Teach to report changes in wound indicating infection (redness, swelling, pain, drainage).	Allows for presence
Teach parents about dietary progression following removal of NG tube (specify).	Promotes re baseline

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(How does client rank feelings of anxiety?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR APPENDICITIS

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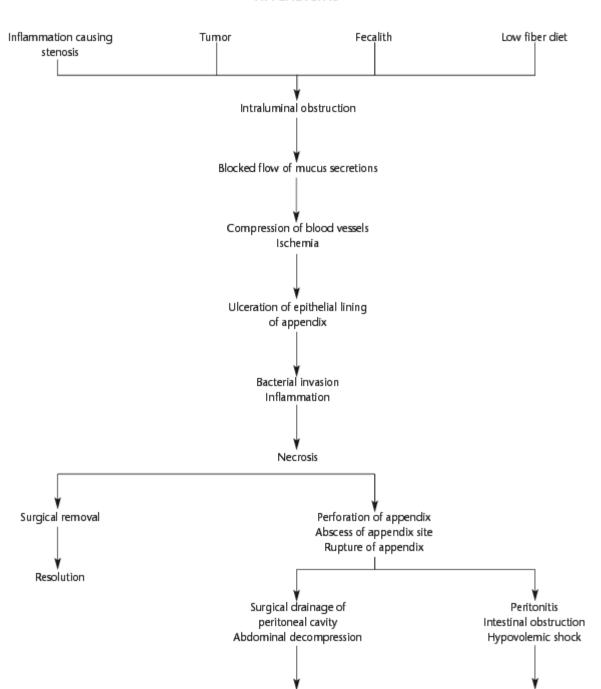
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APPENDICITIS

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CHAPTER 4.2 - CLEFT LIP/PALATE

INTRODUCTION

Cleft lip and/or palate is a defect caused by failure of the soft and bony tissue to fuse in utero. They may occur singly or together and often occur with other congenital anomalies such as spina bifida, hydrocephalus, or cardiac defects. Treatment consists of surgical repair, usually of the lip first between 6 and 10 weeks of age, followed by the palate between 12 and 18 months of age. The surgical procedures are dependent on condition of the child and physician preference. Management involves a multidisciplinary approach that includes the surgeon, pediatrician, nurse, orthodontist, propthodontist, otolaryingologist, and speech therapist.

MEDICAL CARE

Surgical Repair: Cleft lip: Z-plasty between 6 to 10 weeks with Logan bow taped to cheeks to protect incision. Cleft palate: repair between 12 to 18 months of age.

Analgesics (narcotic analgesics): codeine or morphine sulfate postoperatively to control pain.

Analgesics (non-narcotic analgesics): acetaminophen given postoperatively to control moderate pain.

Complete Blood Count (CBC): done as a routine preoperative examination.

Urinalysis: done as a routine preoperative examination.

Follow-up: speech therapy, orthodontia, prosthodontia.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: presence of cleft lip/palate, sore, inflamed buccal cavity, inability to suck, weakness of sucking and swallowing muscles.)

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial aspiration of feedings, trauma of surgery.

Defining Characteristics: (Specify, e.g., abnormal breath sounds, dyspnea, tachypnea, cyanosis, changes in rate or depth of respirations, cough with or without sputum, postoperative edema.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Situational crisis of congenital defect of infant.

Defining Characteristics: (Specify: severe reaction to appearance of infant with a facial defect, responses to imperfect infant [shock, denial and grief], expression of guilt, blame and helplessness, feelings of inadeguacy and uncertainty, worried and anxious about impending surgery.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients report decreased anxiety (specify, e.g., no anxiety or mild anxiety only).

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

- Assess level of anxiety and need for Provides information to allay information that will relieve anxiety. Ask parents to rank their feelings of anxiety as none, mild, moderate, severe, or feelings of panic. Encourage expression of concerns and questions about condition, to discuss feelings about appearance of infant. Provide an accepting environment and attitude and handle the infant in a gentle, caring way. Communicate with parents in a calm, honest, way, discuss the surgical procedures for correction of the defects using pictures and models, and allow to view pictures of children with successful defect repair. Allow parents to stay with infant and encourage to assist in care as appropriate. Emphasize the infant's positive features when providing information. Suggest visits with parents who have a child with a similar defect. Inform parents of usual ages for cleft lip repair and/or cleft palate, stages of surgery and type of procedure performed.
 - anxiety manifested by the infant's appearance at birth with level increased with the location and extent of the defect (lip and/ or palate defect). Provides an environment conducive to venting of feelings to facilitate adjustment to the infant's defect. Promotes trust and conveys to parents that infant is a valuable human baby deserving of love and caring. Promotes a calm and supportive environment to reduce anxiety and instill hope. Reduces anxiety and promotes bonding that may be blocked by infant's appearance. Promotes positive feelings for infant. Provides support and information to reduce anxiety.
 - Provides information to reduce fear and anxiety and to know what to expect.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(How do parents rank feelings of anxiety?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about preoperative care.

Defining Characteristics: (Specify: request for information about cause of defects, feeding techniques, prevention of complications caused by defects preoperatively.)

Goal: Clients will obtain knowledge about preoperative care by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding of preoperative care and demonstrate proper feeding techniques for their infant (specify).

NOC: Knowledge: Infant Care

INTERVENTIONS

Assess parents' ability to feed infant with a defect and acceptance of methods used, knowledge, cause and type of defects, preoperative needs and care, ability of infant to swallow (specify).

Teach and observe parents to hold infant while feeding with the head in an upright position, use a nipple or feeding device, allow feeder to control the flow or the infant to express the formula, apply gentle, steady pressure on the bottom of the bottle and avoid removing the nipple frequently; instruct in feeding method that will be used postoperatively (specify).

Teach and observe to feed slowly and in

RATIONALES

Provides information about defect that may be inherited or congenital, partial or complete, unilateral or bilateral cleft of lip and/or palate; adequate nutritional status and freedom from infection before surgery done. Holding head upright reduces possibility of aspiration, pressure at the base of the bottle prevents choking or coughing, special nipples or devices are used because the cleft interferes with the ability to suck and liquid often flows into the nose when taken into the mouth, use of a nipple encourages development of sucking muscles.

Prevents choking, abdominal

small amounts, burping frequently (tends to swallow air), and extend nipple or feeding device well back into the mouth.	distention, possible flow of liquid into nose or aspirated into lungs causing pneumonia or otitis media or upper respiratory infections.
<pre>Inform parents that feeding should not last any longer than 20 to 30 minutes. (Instruct in use and care of preoperative orthodontic device [plastic palate mold] for infant with cleft palate including removing and cleaning daily, replacing, preventing infant from removing palate.)</pre>	Prolonged feedings may deplete an infant's energy and cause fatigue. Promotes the alignment of maxilla and more normal speech sounds and prevents food from entering nasal cavity.
Instruct parents to cleanse lip, oral cavity and nose with water before and after feeding.	Prevents infection or skin breakdown with cleft lip or palate.
Teach parents to avoid prone position and place child on back or side (use arm restraints, use cup for feeding if palate repair to be done, feed upright if lip repair is to be done for the period preoperatively).	Prepares the child to treatments that will be done postoperatively.
<pre>Inform parents of procedure for correction of defect(s), medications and procedures done to prepare infant for surgery, what to expect postoperatively.</pre>	Prepares parents for surgical correction of defect(s) and what to expect during convalescence.

NIC: Teaching: Infant Care

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients verbalize understanding of preoperative care? Use quotes. Describe how parents feed their infant.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Surgery (broken skin).

Defining Characteristics: (Specify: trauma to suture line, use of protective device, formula or drainage at suture site, improper mouth care and teeth brushing, hands or other objects in mouth, redness, swelling and drainage from incision site, crying caused by pain of incision, improper feeding method.)

Goal: Infant will not experience injury to incision by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ Suture line free of trauma, accumulation of substances, infection.

 \checkmark Sutures intact and healing with protective device in place.

NOC: Risk Control

INTERVENTIONS

Assess suture line for cleanliness, redness, swelling or drainage (frequency).

- Assess for respiratory distress following palate surgery (specify frequency).
- Cleanse suture site of lip repair with gauze or cotton tipped applicator with saline, apply ointment after cleansing as prescribed (specify); rinse mouth with water before and after each feeding.
- Provide air humidification or place in mist tent for a short time following surgery, as ordered.
- Monitor lip protective device taped on operative site.
- Provide ordered analgesics (specify) for pain, hold, cuddle or rock child, anticipate needs to prevent crving.
- Apply soft elbow restraints and remove periodically to perform ROM on arms and allow for some movement and holding; a child may need a jacket restraint to prevent rolling over.
- Remove sharp objects or toys, avoid use of forks, straws or other pointed objects.
- Feed with a cup or spoon if palate repair done; avoid placing spoon in mouth.
- Accompany child when playing or ambulating.
- Teach parents about cleansing suture site and to apply antibiotic ointment.
- Teach parents in feeding method of

RATIONALES

Provides information indicating possible infection and need for cleansing away formula or drainage. Monitors breathing through a smaller airway caused by edema and breathing through nose. Removes material to prevent inflammation or sloughing and final cosmetic result expected.

Decreases dry mouth and nose mucous membranes.

Relaxes the site and prevents tension on sutures caused by facial movement or crying. Promotes comfort and prevents crying caused by pain which creates tension on suture line. Prevents child from touching or

- injuring operative site.
- Prevents trauma to mouth and suture line.
- Prevents damage to suture line.

Prevents trauma caused by accidental falls. Prevents infection and enhances comfort and healing.

Promotes nutrition following

infant and allow to practice appropriate technique using a syringe soft tube in mouth away from any suture line or using a cup for older child (specify).	surgery without sucking on a nipple.
Instruct parents in soft diet inclusions and avoidance of toast, hard cookies or foods, as ordered.	Provides nutritional needs until incision heals completely.
Explain to parents and child to keep hands and objects away from mouth or to maintain use of restraints with removal until incision is healed.	Prevents trauma to suture line.
Advise parents not to allow child to play with small toys or those that are sharp or require sucking or blowing; suggest soft, stuffed toys for infant.	Removes possibility of placing toy in mouth or damage incision.
Explain to parents that usual feeding patterns may be resumed in 2 weeks for lip repair or in 4 to 6 weeks for palate repair.	Provides estimated times based on suture removal and healing to resume regular bottle feeding or return to baseline dietary status.

NIC: Wound Care

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe suture line)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: Inadequate information and temporary family disorganization caused by defect(s) and future correction.

Defining Characteristics: (Specify: expression of concern about defect(s), long-term care required for successful outcome, confirmation of worry about normal growth and development, limited family support and assistance.)

Goal: Family will increase coping ability by (date and time to evaluate).

Outcome Criteria

 \checkmark Family will identify short term and long-term goals (specify number).

 \checkmark Family members will work together to identify 3 coping mechanisms.

NOC: Family Coping

INTERVENTIONS

Assess family coping methods used and their effectiveness; family ability to cope with child that needs longterm care and guidance; stress on family relationships; developmental level of family; perception of crisis situation by family, response of siblings.

- Encourage family members to express problem areas and explore solutions together.
- Assist family members to identify 3 healthy coping mechanisms they can use.
- Assist family to establish short- and long-term goals for child and importance of integrating child into family activities.
- Encourage to follow home routines and meet child's needs with participation of family members.
- Give positive feedback to family and praise family efforts in development of coping and problem solving techniques in caring for child.
- Teach family that overprotective behavior may hinder growth and development and to treat the child as normally as it is possible.
- Discuss the long-term treatment of speech therapy, hearing impairment preventions, dental corrections for crossbite or malocclusion or other therapies.
- Inform parents to observe for hearing deficits and to schedule hearing tests as prescribed.

Teach parents to stimulate speech after sutures removed by playing games, encourage use of words beginning with F, P, S, T, and encourage chewing and swallowing of foods.

Refer family to community agencies,

RATIONALES

Provides information identifying coping methods that work and need to develop new coping skills, family attitudes directly affect child's feeling of self-worth, child with special needs may strengthen or strain family relationships. Reduces anxiety and enhances understanding; provides opportunity to identify problems and problem solving strategies. Empowers the family to find solutions appropriate for them.

Promotes involvement and control over situations and maintains parental role.

Increases child's sense of security and sense of belonging.

- Encourages family to continue involvement in long-term care.
- Enhances family understanding of importance of making child one of the family and adverse effects of overprotection of child. Promotes a positive outcome when family collaborates with the health team.
- Provides preventive therapy for permanent changes in ear caused by frequent otitis media. Promotes speech development.

Provides information and support

March of Dimes, American Cleft Palate Association (specify). services for families of children with cleft defect.

NIC: Coping Enhancement

Evaluation

(Date/time of evaluation of goal)

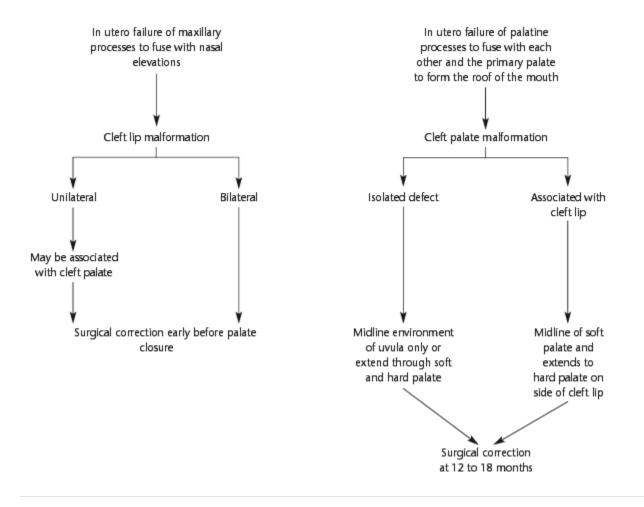
(Has goal been met? Not met? Partially met?)

(What goals did family identify? What coping mechanisms?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CLEFT LIP/PALATE

CLEFT LIP/PALATE



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CHAPTER 4.3 - GASTROENTERITIS

INTRODUCTION

Gastroenteritis is an acute infectious process affecting the gastrointestinal tract caused by bacteria or viruses. Younger children are most commonly affected with specific organisms found in different age groups. At highest risk are those in daycare centers and schools, and those with immune system abnormalities. The disease is transmitted by ingestion of contaminated food, water, or by contaminated hands, linens, equipment, and supplies. Its most serious complication is dehydration and electrolyte losses which may lead to metabolic acidosis and death.

MEDICAL CARE

Antibiotics: selection depends on identification and sensitivity to organism revealed by culture, whether therapy is prophylactic and term of treatment with use of doxycycline (Vibramycin) in children over 8 years of age.

Stool Examination: reveals toxins, culture reveals ova and parasites, specific pathogen for treatment mode.

Electrolyte Panel: reveals decreases in electrolyte levels (K) in persistent diarrhea.

Complete Blood Count: reveals decreased RBC, Act, Hgb with blood loss in persistent diarrhea, and inflammation of bowel mucosa; increased WBC in severe infectious process of tract.

COMMON NURSING DIAGNOSES

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal routes, NPO status.

Defining Characteristics: (Specify: vomiting, diarrhea, decreased skin turgor, dry skin and mucous membranes, weakness, fever, decreased urinary output, decreased pulse volume, increased pulse rate.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factor of excretions and secretions.

Defining Characteristics: (Specify: redness, excoriation at anal site and perineum, presence of persistent diarrhea.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest and digest foods.

Defining Characteristics: (Specify: NPO status, nausea, vomiting, diarrhea, weight loss, anorexia, abdominal cramps.)

See HYPERTHERMIA

Related to: Illness (infectious process).

Defining Characteristics: (Specify: increase in body temperature above normal range, warm to touch, increased pulse and respirations.)

See DIARRHEA

Related to: (Specify: dietary intake, contaminants, toxins, inflammation and irritation of bowel.)

Defining Characteristics: (Specify: abdominal pain, cramping, increased frequency of bowel sounds, increased frequency, loose, liquid stools, changes in color, urgency.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about disease and treatment.

Defining Characteristics: (Specify: request for information about effect and treatment of the disease and preventions of transmission of disease.)

Goal: Clients will obtain information about gastroenteritis by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of the cause and treatment (specify).

 \checkmark Clients demonstrate proper handwashing techniques.

NOC: Knowledge: Treatment Regimen

RATTONALES

INTERVENTIONS	RAIIONALES
Assess knowledge of causes of types of enteritis, methods to treat and control disease. information. Provide parents and child with information and clear explanations in understandable language, include teaching aids and encourage questions.	Promotes effective plan of instruction that is realistic, prevents repetition of Ensures understanding based on interest and need to know to promote compliance.
Instruct to offer rehydration fluids (Pedialyte) and avoid those fluids	Provides and replaces fluids and electrolytes lost in frequent
high in Na ⁺ (milk, broth). Encourage to reintroduce normal diet of easily-digested foods as child tolerates.	diarrheal stools, Na ⁺ increases removal of fluid from cells by osmosis.
Instruct in collection of stool specimens for culture: collect	Reveals identification of specific organism responsible

stool specimens from other family members and inform to take to laboratory for examination (specify).	for enteritis as a basis for treatment; reveals occult blood in stool in severe inflammation of bowel.
Teach about enteric precautions and effective handwashing.	Prevents transmission of organisms.
Inform to take temperature by axillary method.	Prevents additional irritation to rectum.
Instruct to avoid over-the-counter drugs to treat diarrhea or vomiting.	Prevents use of medications that may exacerbate condition.
Demonstrate and instruct to insert antiemetic or sedative suppository (specify).	Treats vomiting and additional fluid loss and promotes rest.
Instruct to measure I&O and determine imbalance to report (specify).	Prevents possible fluid imbalance complication which leads to dehydration.
<pre>Instruct in antibiotic or other medication administration (specify).</pre>	(Action of drug.)

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

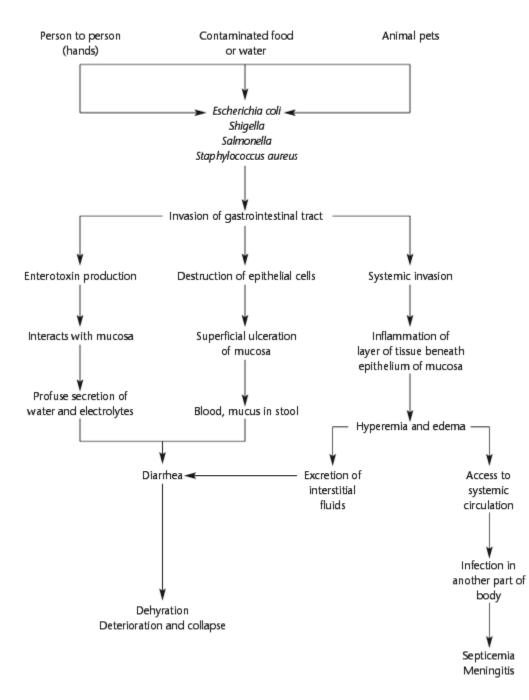
(Has goal been met? Not met? Partially met?)

(What did parents verbalize about the cause and treatment of the illness? Did clients demonstrate proper handwashing techniques?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR GASTROENTERITIS

GASTROENTERITIS



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CHAPTER 4.4 - GASTROESOPHAGEAL REFLUX DISEASE (GERD)

INTRODUCTION

Gastroesophageal reflux (chalasia, cardiochalasia) is the return of gastric contents into the esophagus and possibly the pharynx. It is caused by dysfunction of the cardiac sphincter at the esophagus-stomach juncture. Reasons for this incompetence include an increase of pressure on the lower esophageal sphincter; following esophageal surgery; or immature lower esophageal neuromuscular function. The result of the persistent reflux is inflammation, esophagitis, and bleeding causing possible anemia and damage to the structure of the esophagus as scarring occurs. It also may predispose to aspiration of stomach contents causing aspiration pneumonia and chronic pulmonary conditions. Most commonly affected are infants and young children. As the condition becomes more severe or does not respond to medical treatment and the child experiences failure to thrive, surgical fundoplication to create a valve mechanism or other procedures may be done to correct the condition.

MEDICAL CARE

Proton Pump Inhibitors: lansoprazole (Previcid) or omeprazole (Prilosec) to suppress gastric acid secretion.

*H*₂ *Receptor Antagonists:* cimetidine (Tagamet), or ranitidine (Zantac) to reduce gastric acidity and pepsin secretion.

Barium Esophagram: reveals reflux of barium into the esophagus under fluoroscopy if done at time reflux occurs.

Manometry: reveals esophageal sphincter pressure of less than 6 mm Hg.

Intraesophageal pH Monitoring: reveals pH measurements of the distal esophagus reflux contents.

Gastroesophageal Scintigraphy: reveals reflux or aspiration following ingestion of a radioactive compound and scanning the esophagus.

Gastroscopy: endoscopic examination that reveals view of esophagus to note esophagitis or to remove tissue for biopsy.

Complete Blood Count: reveals decreased RBC, Hgb, Hct in persistent blood loss.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest or digest food because of biologic factors.

Defining Characteristics: (Specify: weight loss, vomiting, increased appetite, heartburn (older child), failure to thrive, gastric bloating.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal route.

Defining Characteristics: (Specify: vomiting, diarrhea (postoperatively), decreased urine output, dehydration.)

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial aspiration and infection.

Defining Characteristics: (Specify: abnormal breath sounds, dyspnea, changes in rate or depth of respirations, fever, cough that is effective or ineffective and with or without sputum.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR ASPIRATION

Related to: Increased intragastric pressure with an incompetent cardiac sphincter.

Defining Characteristics: (Specify: laryngospasm, choking, coughing, apnea, cyanosis, wheezing, pneumonitis.)

Goal: Client will not aspirate by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ Absence of aspiration with breathing pattern maintained at baseline parameters (specify).

 \checkmark Absence of recurrent pulmonary infection.

NOC: Risk Control

INTERVENTIONS

RATIONALES

INTERVENTIONE	INTIONALED
Assess respiratory status for rate, depth and ease, breath sounds before and after feedings.	Provides information about respiratory pattern changes caused by aspiration.
Assess vomiting, activity, and position before and after feeding.	Predisposes to aspiration of contents of reflux which is precipitated by factors associated with feeding.
Place in prone position (flat prone or with head elevated 30 degrees) or in an infant seat. Offer frequent, small feedings (of thickened formula, if ordered).	Maintains prone position to prevent reflux and risk of reflux. Prevents reflux and minimizes symptoms.
Administer medications ordered (specify).	(Action of drug.)
Maintain suction and O_2 equipment at hand.	Removes aspirate and promotes airway patency and tissue oxygenation.
Inform parents of risk for aspiration and consequences of	Provides information about potential for complications.

recurring aspiration associated with the condition. Instruct parents in feeding modifications, positions before and after feedings. Reassure parentst hat it is best for their child to sleep prone, not on the back like others.	Minimizes risk for reflux and aspiration.
Reassure parents that most children outgrow GERD. Praise parents' efforts to prevent complications.	Reassurance and praise provide positive reinforcement to parents.

NIC: Airway Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe breathing pattern. Has child experienced any respiratory infection?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: malnutrition, abnormal blood profile.)

Defining Characteristics: (Specify: decreased Hgb with esophageal bleeding leading to anemia, severe reflux disorder leading to failure to thrive.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ No esophageal bleeding (negative Guaiac tests) is found.

 \checkmark Child exhibits appropriate growth (specify).

NOC: *Risk Detection*

INTERVENTIONS

RATIONALES

Assess for severity of reflux, weight loss or gain, failure to thrive, stool and vomit for occult blood (specify when). Prepare parents and infant for diagnostic procedures and possible Prepare parents and infant for diagnostic procedures and possible

surgical procedure (specify). Inform parents that infant usually outgrows the disorder and achieves normal function by 6 weeks of age and those with a continuing problem of reflux usually improve by 6 months of age.	interventions. Provides reassurance to parents that medical regimen may be successful and complication may not occur.
Teach to perform Guaiac test on stool and vomitus and allow to return demonstration.	Reveals presence of occult blood in esophagitis.
Inform that severe reflux may require NPO status and nasogastric tube insertion with suction.	Prevents distention and continuing reflux activity of stomach contents.

NIC: Bleeding Precautions

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What are results of Guaiac testing? What is child's weight gain? Is that appropriate for age?)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Change in health status of infant, possible surgery of infant.

Defining Characteristics: (Specify: increased apprehension that condition might worsen and that surgery be required, expressed concern and worry about impending surgery, pre and postoperative care, gastrostomy and treatments while hospitalized and complications following surgery.)

Goal: Clients will experience less anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients report a decrease in their anxiety level to none or mild.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

Assess source of level of anxiety and how anxiety is manifested: need for information that will relieve anxiety. Ask clients to rate anxiety from none, to mild, moderate, severe, or panic level. Assess source of level of anxiety and Provides information about anxiety level and need for interventions to relieve it; sources for the parents include fear and uncertainty about treatment and recovery, guilt

for presence of illness. Encourage expression of concerns and Provides opportunity to vent to ask questions about condition, procedures, recovery surgery by parents. Communicate frequently with parents and answer questions calmly and honestly; use pictures, drawings, and models for explanations. Encourage parents to stay with child and to assist in care. Give parents as much input in decisions about care and routines as possible. Provide consistent care of infant with familiar staff assigned for care. Inform parents of disease process, physical effects, and symptoms of illness. expect. Explain reason for each pre and postoperative procedure or type of therapy, diagnostic test, surgical procedure and rationales including IV, NG tube, dressings and gastrostomy tube (specify). (Inform parents that NG tube is removed when postoperative ileus is resolved and gastrostomy tube is removed 2 or more weeks after surgery.) (Instruct in care of and feeding via gastrostomy tube and inform of complications of choking, delayed gastric emptying, inability to vomit, gas bloating that may occur following surgery; specify.) (Demonstrate and instruct in wound care and dressing changes; allow for return demonstration, inform to protect dressing from diaper.) Instruct parents in feeding techniques, allowing infant to take a long time to feed and to report any feeding problems. Instruct to report changes in wound indicating infection (redness, swelling, pain, drainage).

NIC: Anxiety Reduction

feelings and fears and secure information to reduce anxiety. Promotes calm and supportive trusting environment. Allows parents to care for and support child and continue parental role. Allows for more control over situation. Promotes trust and reduces anxiety. Provides information to relieve anxiety by knowledge of what to Reduces fear which decreases anxiety. Reduces anxiety that the tube placements and care evokes. Information of what to expect will reduce anxiety. Ensures wound healing without complication of infection or recurrence of infection. Familiarizes parents with changes in feeding patterns to prevent complications of choking, aspiration. Allows for immediate treatment in presence of infectious procedure.

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Evaluation

(Date/time of evaluation of goal)

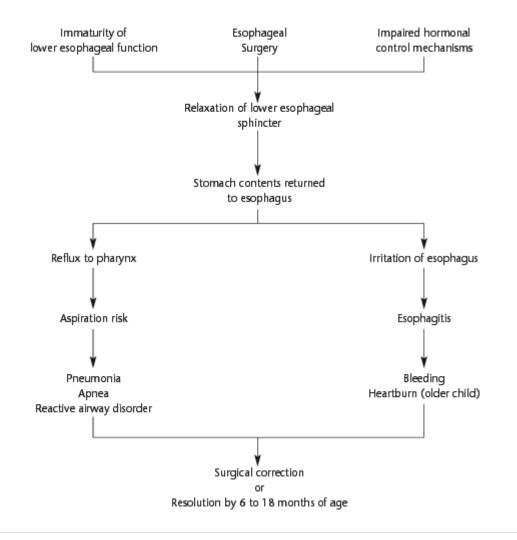
(Has goal been met? Not met? Partially met?)

(How do parents rate their anxiety?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR GASTROESOPHAGEAL REFLUX DISEASE (GERD)

GASTROESOPHAGEAL REFLUX



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CHAPTER 4.5 - HEPATITIS

INTRODUCTION

Hepatitis is the inflammation of the liver usually caused by a virus. Four viruses that may cause it are: hepatitis A (HAV), hepatitis B (HBV), hepatitis D (HDV) and hepatitis non-A, non-B (NANB). Most common of the types found in children is hepatitis A which is transmitted by the fecal-oral route. The incidence in children is increased in those living in crowded housing. The disorder is usually self-limiting with resolution within 2 to 3 months or may develop into chronic hepatitis. Symptomology varies with severity of the disease.

MEDICAL CARE

Immunizing Agents: immune globulin (Gamma globulin) given IM as prophylaxis to provide passive immunity or modify severity of hepatitis A; hepatitis B immune globulin (H-BIG) given IM as prophylaxis after exposure to hepatitis B or to provide passive immunity if exposed to contaminated materials (blood serum); hepatitis B vaccine given to newborns IM to immunize against hepatitis B.

Metabolic Enzymes: alanine aminotransferase (ALT), aspartate aminotransferase (AST), lactic dehydrogenase (LDH) reveal increases as liver damage occurs and cells release enzymes; alkaline phosphatase reveals increase in liver disease.

Immunoglobulins: reveal IgM antibodies indicating hepatitis A virus antibodies for diagnosis of hepatitis A, IgG indicates susceptibility or past exposure to hepatitis A. Hepatitis B surface antigen (HBsAg); titer that reveals antibodies or antigens that are produced in response to hepatitis B and indicates chronic hepatitis B if present longer than 6 months or improvement as the antigen is decreased or disappears.

Bilirubin: reveals increases in indirect bilirubin if liver damaged.

Ammonia: reveals increases in poorly functioning liver.

Protein: reveals increased globulins and decreased albunin.

Prothrombin Time: reveals increases in severe liver disease.

Urine Urobilinogen: reveals increases in liver disease whether the serum bilirubin level changes or not.

Stool: reveals changes in color if bile is not produced as a result of liver disease.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest, digest food.

Defining Characteristics: (Specify: anorexia, nausea, vomiting, weight loss, fatigue, abdominal discomfort.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal routes.

Defining Characteristics: (Specify: vomiting, diarrhea, reduced intake of fluids, reduced urinary output, signs and symptoms of dehydration, gastrointestinal bleeding.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factors of excretions and secretions, internal factor of altered pigmentation.

Defining Characteristics: (Specify: redness, irritation of perianal area with diarrhea, jaundice with pruritis.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR ACTIVITY INTOLERANCE

Related to: Generalized weakness, bed rest.

Defining Characteristics: Easy fatigue, malaise, preference for inactivity, deconditioning with bed rest.

Goal: Client will tolerate appropriate levels of activity by (date and time to evaluate).

Outcome Criteria

 \checkmark (Specify level of activity for client, e.g., quiet play in bed.)

NOC: Energy Conservation

INTERVENTIONS

RATIONALES

Assess intolerance to activity and manifestations.	Provides information about extent of fatigue.
Maintain bed rest while illness is in acute stage but allow for quiet play and progress as condition allows.	Allows for time for liver to heal and prevents any further damage.
Provide access to needed articles within reach, aids to assist in performing ADL.	Preserves energy which improves endurance.
Provide increasing activity participation as tolerated on a daily basis (specify).	Promotes recovery without compromising energy or causing fatigue.
Help parents devise a rest and activity schedule which can be adjusted to child's tolerance and allow child to regular activity at own pace (specify).	Provides information to improve activity tolerance without causing fatigue or remission or disease.
Inform parents and child of level	Permits return to normal

of activity necessary to return activity when possible. to school.

NIC: Activity Therapy

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe client's activity)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about transmission of disease.

Defining Characteristics: (Specify: request for information about spread of disease, measures to take to prevent spread of disease and possible relapse of condition.)

Goal: Parents will obtain information about hepatitis by (date and time to evaluate).

RATIONALES

Outcome Criteria

 \checkmark Parents verbalize understanding of the cause and treatment of hepatitis.

NOC: Knowledge: Disease Process

INTERVENTIONS

Assess knowledge of disease and isolation precautions to take to prevent transmission.	Promotes knowledge and understanding of disease.
Instruct parents and child in proper handwashing and teach to perform before meals, after using bathroom.	Prevents transmission of microorganisms for type A which is carried via the oral-fecal route.
Teach parents and child that toys may become contaminated and that they should not be shared.	Prevents transmission to others via handling of toys.
Instruct to use disposable gloves when handling blood, excrete any other body fluids.	Prevents transmission of microorganisms.
Instruct parents to use disposable dishes, wash linens in hot soapy water and rinse well and dry, separate child's personal hygiene	Prevents transmission of microorganisms to others.

articles from other members of	
household.	
Teach parents and child of signs and	
symptoms of disease how disease is	

symptoms of disease, how disease is transmitted, dietary inclusions of protein and carbohydrate, activity program and signs, symptoms of disease recurrence (pain, anorexic fever, nausea and vomiting, jaundice) to report.

Inform parents of immune globulins available (for hepatitis A if given before exposure or after exposure if during early incubation period, or hyper-immune gamma globulin for hepatitis B if given after exposure but reserved for those at risk). Provides information about disease and treatments to prevent transmission or relapse.

Provides information about prophylactic measures available.

Teach parents and child to avoid overthe-counter drugs without physician advice to prevent toxicity if liver is unable to detoxify drugs.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

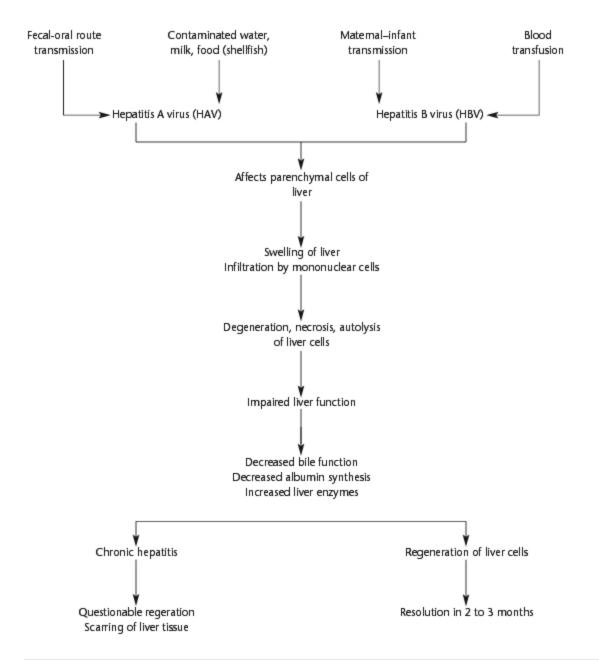
(Has goal been met? Not met? Partially met?)

(What do parents verbalize about hepatitis?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HEPATITIS





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CHAPTER 4.6 - HERNIA

INTRODUCTION

A hernia results from a protrusion of abdominal contents through an opening in a weakened musculature. An umbilical hernia is the protrusion of intestine and omentum through the umbilical ring caused by a failure of complete closure after birth. Inguinal hernia is the protrusion of intestine through the inguinal ring caused by a failure of the processus vaginalis to atrophy to close before birth allowing for a hernial sac to form along the inguinal canal. Umbilical hernia usually resolves by 4 years of age; those that do not by school age are corrected by surgery. Inguinal hernia becomes apparent in the infant by 2 to 3 months of age when intra-abdominal pressure increases enough to open the sac. It is usually associated with a hydrocele. Both are corrected by surgical repair (herniorrhaphy) to prevent obstruction and eventual incarceration of a loop of bowel.

MEDICAL CARE

Surgical reduction and repair of defect.

COMMON NURSING DIAGNOSES

See INEFFECTIVE BREATHING PATTERN

Related to: Pain, decreased lung expansion.

Defining Characteristics: (Specify: dyspnea, tachypnea, respiratory depth changes, altered chest excursion.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Postoperative status.

Defining Characteristics: (Specify: NPO status, altered intake, signs and symptoms of dehydration, I&O imbalance.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Surgical incision.

Defining Characteristics: (Specify: disruption of skin surface, invasion of body structures, excreta in diaper contaminating the incision area.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: Intestinal obstruction.

Defining Characteristics: (Specify: irreducible loop of bowel, incarceration of the bowel with complete obstruction.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Child appears comfortable, denies pain (specify).

NOC: Risk Detection

INTERVENTIONS

RATIONALES

prognosis of disorder.

Assess by palpation for umbilical or inguinal swelling that appears when infant cries or when child strains or coughs, and ability to reduce swelling with gentle compression if bowel forced into sac.	Reveals hernia that is reducible.
Assess tenderness at hernia site with abdominal distention, anorexia, irritability and defecation changes.	Indicates partial or complete obstruction caused by incarceration and strangulation.
Instruct parents to report signs and symptoms to physician; inform of reason for disorder and what signs are expected and those that indicate obstruction.	Prevents more severe complication of eventual gangrene of bowel.
Teach parents of surgical procedure to repair hernia and possible hydrocele and course of progress to expect.	Corrects and repairs hernia and hydrocele if present before complication arises.
Encourage parents to prevent infant from crying as much as possible; hold and feed when hungry as preventive measures.	Prevents bowel from being forced into sac.
Teach about dietary inclusions and restrictions to prevent straining (specify).	Modification of diet to prevent constipation, decreased straining and increased intra- abdominal pressure that forces bowel into sac.
Deserving assesses that become a second line	Description information representions

Reassure parents that hernia usually Provides information regarding resolves itself and if not, surgery may be required to repair.

NIC: Teaching: Prescribed Activity

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did parents verbalize about caring for their child?)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Surgical repair.

Defining Characteristics: (Specify: irritability in infant, crying, moaning, guarding behavior, verbal descriptor of pain, refusal to move, change in facial expression in child.)

Goal: Client will experience less pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Client rates pain less than (specify) on the (specify scale used for developmental level).

NOC: Pain Level

NIC: Pain Reduction

<pre>INTERVENTIONS Assess incision pain and associated symptoms. Administer analgesic appropriate for severity of pain and age</pre>	RATIONALES Provides information about need for analgesic therapy. Relieves pain and discomfort caused by incision. (Specify
as ordered (specify drug, route, dose, and time). Maintain position of comfort.	action of drug.) Promotes comfort and reduces
	pain caused by strain on incision.
Support buttocks when lifting or changing position.	Prevents strain and pull on incision site.
Apply ice bag to scrotal area if hydrocele corrected and apply scrotal support if applicable (specify).	Promotes comfort by decreasing edema.
Provide toys, games for quiet play (specify).	Promotes diversionary activity to detract from pain.
Teach parents to hold infant when feeding or when irritable, burp frequently to remove swallowed air.	Reduces strain on incision and promotes comfort.
Encourage parents to change diapers frequently.	Prevents irritation and pain at incision area caused by damp diapers.
Explain cause of pain to parents and child and measures taken to relieve it.	Promotes understanding of treatments for pain postoperatively.

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Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(How does child rate pain (or use infant scale and report findings)?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of knowledge about postoperative care.

Defining Characteristics: (Specify: request for information about activity allowed, wound care, diet, bathing and comfort measures.)

Goal: Parents will obtain knowledge about postoperative care by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of postoperative care for their child.

NOC: Knowledge: Treatment Procedure

INTERVENTIONS	RATIONALES
Assess knowledge of causes of hernia, surgical procedure performed, willingness and interest to implement treatment regimen.	Promotes effective plan of instruction to ensure compliance.
Provide parents and child as appropriate with information and clear explanations in understand- able language, include teaching aids and encourage questions.	Ensures understanding based on learning ability and age.
Inform to maintain incision dressing until it peels off and to apply diaper so that it does not cover incision.	Maintains dry and clean incision site.
Teach to give sponge baths until incision heals.	Maintains incision integrity.
Encourage to hold infant when crying and to feed; activity is not usually restricted; advise child to refrain from lifting, pushing, or engaging in strenuous play or gym classes at school.	Reduces strain on incision and possible recurrence of hernia.
Advise parents to increase diet and fluids as ordered (specify).	Promotes return to nutritional status without causing

Reassure parents that infant usually tolerates surgery well and progresses to wellness without incident and that this condition is one of the most common surgeries in infancy.

NIC: Teaching

Evaluation

(Date/time of evaluation of goal)

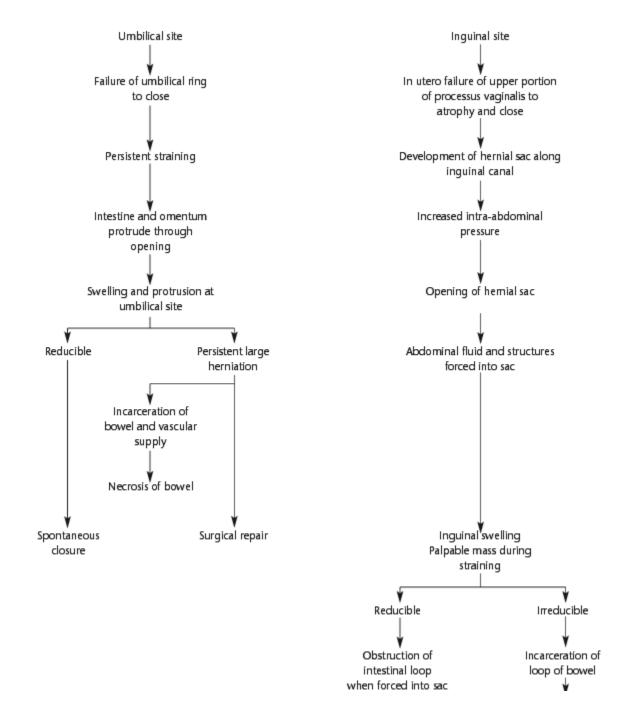
(Has goal been met? Not met? Partially met?)

(Does child appear comfortable? Does child deny abdominal discomfort?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HERNIA

HERNIA



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CHAPTER 4.7 - INFLAMMATORY BOWEL DISEASE

INTRODUCTION

Inflammatory bowel disease includes Crohn's disease and ulcerative colitis with similar signs and symptoms but with different intestinal pathology. Actual cause of either disease is unknown but they are associated with immunologic, nutritional, and infectious disturbances with psychogenic factors responsible for severity and exacerbation of the disease. Crohn's disease affects the small and/or large intestine with the terminal ileus the most common site. It involves all layers of the bowel and results in a thickening and eventual obstruction. Lesions from this disease are patchy with areas of normal tissue while lesions from ulcerative colitis are continuous in the affected bowel. Ulcerative colitis also affects the mucosa and submucosa of the large intestine and rectum in a hyperemia and edema of which effects absorption of nutrients and eventually a narrowed, inflexible, scarred bowel. Both diseases are characterized by remissions and exacerbations and occur in children of school age but are most commonly found in the adolescent age group.

MEDICAL CARE

Anti-inflammatories: corticosteroids, azathioprine, mercaptopurine.

Anti-infectives: sulfasalazine (Azulfidine) to prevent recurrences administered with folic acid supplement as it interferes with utilization of this substance; metronidazole (Flagyl) given to treat perianal condition, intestinal amebiasis.

Analgesics: codeine given to control pain.

Gastrointestinal X-ray (Barium enema): reveals colon abnormalities.

Gastrointestinal X-ray (Barium swallow): reveals small intestine abnormalities.

Colonoscopy: reveals view of colon abnormalities such as intermittent mucosa involvement, mucusal erosion, cobblestoning, granularity.

Bowel biopsy: taken during colonoscopy or sigmoidoscopy at different sites reveals bowel pathology especially in Crohn's.

Sigmoidoscopy: reveals abnormalities in rectum, sigmoid colon.

Erythrocyte sedimentation rate (ESR): reveals increases in Crohn's disease.

Protein: reveals decreases in albumin.

Immunoglobulins: reveal decreases in IgG, IgA.

C-Reactive protein (CRP): reveals increases in presence of inflammatory disorder, especially Crohn's disease.

Electrolyte Panel: reveals decreased K⁺ with diarrhea.

Complete Blood Count (CBC): reveals increased with inflammation WBC, decreased RBC, Hct with blood loss and anemia.

Stool: fecal culture reveals presence of pathologic organisms that may cause diarrhea; fecal analysis for fat content reveals absorption defect; fecal occult blood reveals bleeding from intestinal tract.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest and digest food, absorb nutrients.

Defining Characteristics: (Specify: anorexia, diarrhea, abdominal cramping, weight loss, growth retardation, abdominal distention, possible vomiting.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal routes.

Defining Characteristics: (Specify: diarrhea, output greater than intake, signs and symptoms of dehydration, electrolyte imbalance (K⁺).

See DIARRHEA

Related to: Irritation, or malabsorption of bowel, dietary intake.

Defining Characteristics: (Specify: abdominal pain, cramping, increased frequency, increased frequency of bowel sounds, loose, liquid, watery stools, urgency, changes in color and constituents (blood, mucus), ingestion of high fiber foods.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factor of secretions and excretions, internal factor of extra-intestinal skin lesions.

Defining Characteristics: (Specify: irritation, redness, pain at perianal area, disruption of skin surfaces, chronic and excessive diarrhea.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of physical disability.

Defining Characteristics: (Specify: altered physical growth, delay in sexual maturation, delay in bone age, weight loss, school absences during exacerbations.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Biologic injuring agents, inflammation and irritation of the bowel.

Defining Characteristics: (Specify: abdominal cramping, abdominal distention, intermittent pain aggravated by eating or pain that is constant and aching, verbalization of other pain descriptors, guarding and protective behavior towards abdomen.)

Goal: Child will experience less pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Child rates pain less than (specify) on a scale of (specify).

NOC: Pain Level

DANTONAT

INTERVENTIONS	RATIONALES
Assess severity of pain, onset and precipitating factors, location, duration, remissions and exacerbations (specify when).	Provides information symptomatic of inflammatory bowel disease with pain common in Crohn's disease and less frequent in ulcerative colitis; pain is associated with dietary intake in both diseases.
Administer medications as ordered (specify drug, dose, route,and times); assess effect of medications in relieving discomfort.	(Action of drug)
Assist to assume position of comfort.	Promotes comfort to reduce pain.
Provide toys, TV, book, games for quiet play during painful episodes (specify).	Promotes diversionary activity to detract from pain.
Teach child relaxation exercises and guided imagery, use of music for relaxation.	Provides child with methods to control discomfort by diversion.
Explain cause of pain to child and measures taken to relieve pain.	Provides information for understanding of condition and reasons for treatments and medication.
Teach child about factors that exacerbate pain episodes and to express presence of pain at onset.	Promotes opportunity to avoid those foods or stressful situations that contribute to pain and provides for immediate relief.

NIC: Pain Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(How does child rate pain?)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Threat to self-concept (body image), change in health status.

Defining Characteristics: (Specify: expressed fear and uncertainty, feelings of inadequacy among peer group, feeling of helplessness about consequences, delayed growth and sexual maturation, feeling of being different or frequency of being ill, school absences, ongoing dietary restrictions, presence of a colostomy if colectomy performed.)

Goal: Child will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Verbalized reduction in anxiety.

 \checkmark Child verbalizes reduction of anxiety to (specify level, e.g., none, mild, moderate, severe, or panic level).

NOC: Anxiety Control

INTERVENTIONS Assess level of anxiety of child and how it is manifested; the need for information that will relieve anxiety (specify when).	RATIONALES Provides information about source and level of anxiety and need for interventions to relieve it; sources for the child may be procedures, fear of mutilation or death, unfamiliar environment of hospital and may be manifested by restlessness, inability to play or sleep or eat, clinging, aggression, withdrawal.
Assess possible need for special counseling services for child.	Reduces anxiety and supports child dealing with a long-term illness and promotes adjustment to lifestyle changes.
<pre>Encourage expression of concerns about illness and procedures and treatments. Communicate with child at appropriate age level and answer questions calmly and honestly; use pictures, models and drawings</pre>	Provides opportunity to vent feelings and fears to reduce anxiety. Promotes understanding and trust.
for explanations. Encourage child's input in decisions about care and routines as possible.	Allows for more control and independence in situations.

Teach child disease process, physical effects, signs and symptoms of disease. Explain reason for each procedure or type of therapy, diagnostic tests and what to expect.
Provides information to promote understanding and relieve anxiety. Reduces fear of unknown which evokes anxiety.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(How does child rank anxiety?)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED ADJUSTMENT

Related to: Disability requiring change in lifestyle, inadequate support systems.

Defining Characteristics: (Specify: verbalization of nonacceptance of health status change, unsuccessful in ability to be involved in problem solving, lack of movement towards independence.)

Goal: Child will adapt to lifestyle changes by (date and time to evaluate).

Outcome Criteria

 \checkmark Child and family verbalize strengths.

 \checkmark Child and family identify 3 ways to cope with illness.

NOC: Acceptance: Health Status

INTERVENTIONS

Assess for ability of child and family to adapt, willingness of family and child to support medical regimen and need to change lifestyle, ability to problem solve and utilize coping mechanisms.

Encourage to identify strengths and roles of family and child, coping mechanisms that have been successful in the past, resources and support groups available.

RATIONALES

child.

Provides information about ability
 of family and child to modify
 lifestyle, make plans for a
 constructive lifestyle within
 limits imposed by change in
 health status.
Allows for support needed to
 manage long-term illness of

Assist child and family to develop a				
health care regimen by making				
decisions regarding care, sharing				
goals and progress, accepting				
accountability for specific aspects				
of care.				

Assist child and family to deal with denial behavior and to differentiate between denial of change in health status and denial of limits imposed by change in health status.

Maintain a positive, hopeful attitude about lifestyle changes accomplished to promote health.

Provide information about disease process, treatment, potential disability, prognosis.

Prepare child and family for colostomy or ileostomy surgery if indicated and emphasize the positive aspects of such a surgery and possibility of fairly normal life regardless of bowel diversion (permanent recovery, normal growth and sexual development).

Refer to resources such as insurance assistance (government and private, support groups, social services, colitis and Ileitis Foundation, United Ostomy Association).

NIC: Self-Awareness Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What strengths did child and family identify? How do child and family plan to cope with illness?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about long-term medical regimen.

Defining Characteristics: (Specify: request for information about medication, dietary regimen, care of colostomy or ileostomy.)

Promotes independence and control over care and situations.

changes that are congruent with

Promotes maximal use of personal

Promotes understanding of disease

begin to lead to acceptance of

change in bowel elimination.

Assists family and child to seek

treatment development and

research and economic and psychological assistance.

out support and information over

long period of time for current

resources and acceptance of

and effect on lifestyle.

Provides information that may

Permits realistic lifestyle

health status changes.

support systems.

Goal: Clients will obtain knowledge about care by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize plan of care for child.

NOC: Knowledge: Treatment Regimen

INTERVENTIONS Assess parents and child for knowledge Provides information of learning

RATIONALES

understanding and skill.

of prescribed medical regimen and postoperative care if applicable.	needs of parents and/or child.
Instruct in special nutritional needs including diet that is high in protein and calories and low in fat and fiber.	Provides replacement of nutritional losses caused by the disease and to promote metabolic function and energy levels.
Inform that mouth care before meals and bland foods should be encouraged if mouth pain is present.	Promotes comfort if stomatitis present.
Teach about long-term administration of medications, folic acid supplement including actions, dosages during acute and chronic stages, frequency, times, side effects, (specify) effect of discontinuing a steroid without tapering, signs and symptoms to report.	Provides information.
(Teach, demonstrate, and allow for return demonstration for ostomy care including, application and removal of appliance peristomal skin care, emptying and cleansing of ostomy bag, odor control; continent ileostomy care and catheterization of the pouch.)	Promotes independence in ostomy care with as normal a return to activities as possible; procedure done if child does not respond to medical treatment.
(Inform of nasogastric tube feedings or total parenteral nutrition if required.)	Provides information about alternate methods of nutritional support during acute state of disease.
Provide praise and encouragement to	Positive reinforcement enhances

Provide praise and encouragement to child and family as they learn new skills.

NIC: Teaching: Disease Process

Evaluation

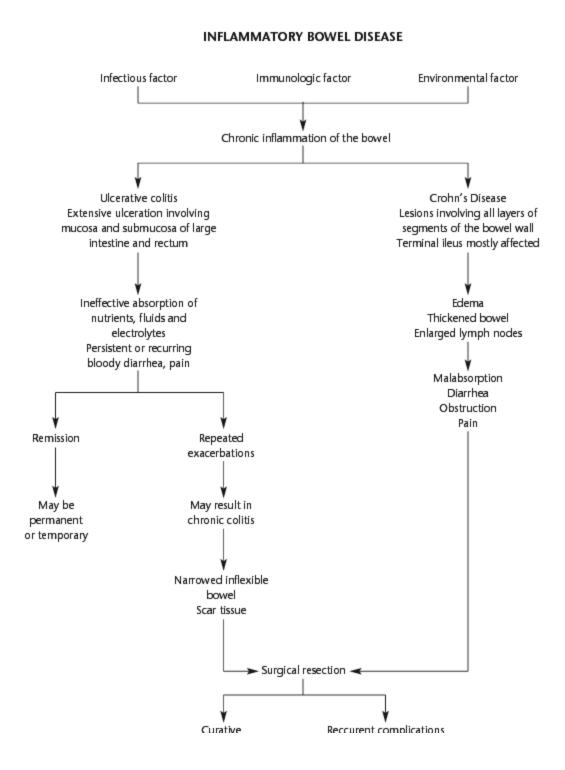
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did clients verbalize about child's plan of care?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR INFLAMMATORY BOWEL DISEASE



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CHAPTER 4.8 - INTUSSUSCEPTION

INTRODUCTION

Intussusception is a telescoping of one section of the bowel into another section which results in obstruction to passage of the intestinal contents and inflammation and decreased blood flow to the parts of the intestinal walls that are pressing against one another. If left untreated, eventual necrosis, perforation, and peritonitis occurs. It occurs in infants most commonly between 3 to 12 months of age or in children 12 to 24 months of age. The actual cause is unknown but risk for the condition increased in children with Meckel's diverticulum, celiac disease, cystic fibrosis, diarrhea, or constipation. Surgical correction is indicated if the obstruction of the involved segment cannot be reduced manually or by hydrostatic pressure or if bowel becomes necrotic.

MEDICAL CARE

Analgesics (narcotic analgesics): codeine, morphine sulfate preoperatively before diagnostic test or postoperatively for pain.

Analgesics (non-narcotic analgesics): acetaminophen given for pain postoperatively.

Antibiotics: given to prevent or treat peritonitis.

Lower Gastrointestinal X-ray, Ultrasound: barium enema reveals an obstruction which prevents the flow of barium into the colon.

Reduction of the Intussusception: usually occurs as a result of the pressure of the barium enema, or may be accomplished by other methods of hydrostatic or air pressure reduction.

Surgical Reduction of the Intussusception: with possible resection for necrotic bowel.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest and digest foods.

Defining Characteristics: (Specify: vomiting, abdominal pain, NPO status, NG tube pre and postoperatively.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses through normal routes.

Defining Characteristics: (Specify: vomiting, decreased urine output, altered intake with NPO status, signs and symptoms of dehydration or electrolyte imbalance.)

See CONSTIPATION

Related to: (Specify: medications, diagnostic procedure using barium enema.)

Defining Characteristics: (Specify: hard formed, barium colored stools, decreased bowel sounds, less frequent passage of stools and flatus, abdominal discomfort.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: Bowel dysfunction.

Defining Characteristics: (Specify: severe abdominal pain, bowel obstruction.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Intussusception is reduced by hydrostatic pressure.

 \checkmark Client passes normal brown stool.

NOC: Symptom Control

INTERVENTIONS

RATIONALES

- Assess presence of acute abdominal pain with loud crying and drawing knees up to chest which may be episodic, vomiting, passage of a brown stool followed by red, currant jelly-like stool, pallor, irritability.
- Assess presence of diarrhea, constipation, episodes of vomiting and colic in older child.
- Provide NG tube attached to suction, IV fluids to decompress bowel and maintain hydration status and maintain patency of therapy as ordered (specify).
- Note bowel elimination and stool characteristics and ability to eliminate barium following the procedure.
- Provide reassurance to parents and allow to accompany child during procedure.
- Provide information about all care given and allow for opportunity to

- Provides information that indicates that intussusception is present which may lead to obstruction and signs of peritonitis if not treated.
- Indicates presence of
 intussusception and need for
 further evaluation.
 Prevents vomiting and dehydration
 and prepares child for barium
 enema procedure to diagnose and
 reduce the invagination.
- Indicates success of the procedure
 in reducing the affected bowel
 as the condition may recur
 within 36 hours.
 Promotes trust and reduces
 anxiety.

Reduces anxiety.

ask	questio	ons abo	ut proc	edures	5.
Teach	parents	about	reason	s for	IV
and	NG tube	e, NPO	status	(speci	lfy).

Inform parents that surgical reduction may be necessary if barium enema does not reduce the invagination. Reinforce information given by

physician.

Provides information about treatments for understanding and reduction of anxiety. Prepares parents for possibility of surgical correction. Provides information about surgery intervention if barium enema reduction not successful or if

bowel obstruction and gangrene

is present.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Was intussusception reduced by hydrostatic pressure? Did client pass a normal brown stool?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about condition.

Defining Characteristics: (Specify: request for information about causes of condition, postoperative or postprocedural care.)

Goal: Parents will obtain information about intussusception by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of intussusception, the need for a barium enema, and possibility of surgical intervention.

NOC: Knowledge: Disease Process

INTERVENTIONS	RATIONALES
Assess knowledge of condition,	Promotes development of effective
causes, treatment regimen	plan of instruction.
following procedure(s).	
Provide parents with information and	Ensures understanding of care
clear explanation in	needs based on ability to
understandable language, include	learn.
aids in teaching and encourage	

questions (specify).

- (Inform parents of signs and symptoms of incision infection and demonstrate and allow for return demonstration of dressing change.)
- Teach to report any blood in stool, change in stool characteristics or diarrhea or constipation or absence of stools.
- Teach parents about preparation procedures for reduction by barium enema or surgery and antibiotic and postoperative care given to child.
- Teach parents that child will be NPO and when advisable, will be offered clear fluids and slowly progress to usual diet. Inform parents of activity restrictions (specify).

Inform parents that bowel elimination of brown stools indicate that condition has been corrected.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did parents verbalize about intussusception, barium enema, and possibility of surgery? Use quotes.)

Promotes awareness of signs and

symptoms to report to treat

recurrence or chronicity of

Provides information regarding

Prevents vomiting or abdominal

distention until condition

Allows condition and/or wound to

Provides parents with baseline

expected with successful

resolution of problem.

heal and resolve itself without

complication of wound

Indicates gastrointestinal

bleeding and possible

care to expect during

hospitalization.

complications.

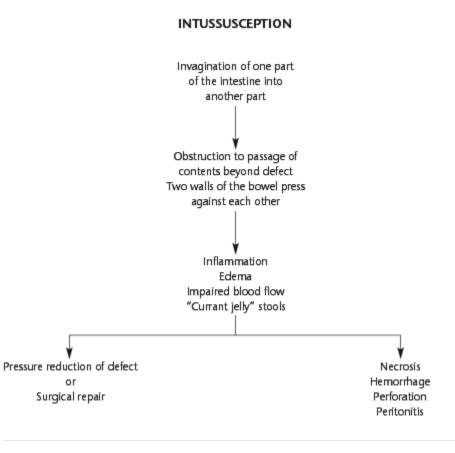
infection.

condition.

resolved.

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR INTUSSUSCEPTION



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CHAPTER 4.9 - PYLORIC STENOSIS

INTRODUCTION

Pyloric stenosis is a hypertrophic disorder of the circular muscle of the pylorus in which the pylorus is greatly enlarged and hyperplasic and causes progressive narrowing of the canal between the stomach and duodenum. As the canal becomes obstructed over time, associated inflammation and edema result in complete obstruction. The enlarged pylorus muscle may be felt as an "olive-like" mass in the upper abdomen. The infant appears very hungry but exhibits projectile vomiting soon after eating and fails to gain appropriate weight. Metabolic alkalosis is a possibility from loss of hydrochloric acid.

The exact cause is unknown although heredity is suspected. The abnormality is most common in young children between 1 to 6 months of age. Pyloric obstruction is treated successfully with surgical correction.

MEDICAL CARE

Pyloromyotomy: surgical enlargement of the pyloric lumen.

Analgesics (narcotic analgesics): postoperatively for pain control.

Analgesics (non-narcotic analgesics): acetaminophen postoperatively for moderate pain.

Upper Gastrointestinal X-ray: reveals delayed gastric emptying with an elongated canal between stomach and duodenum.

Ultrasound: reveals narrowed canal between stomach and duodenum without the use of barium swallow.

Electrolyte Panel: reveals increased Hgb, Hct as hemoconcentration occurs with fluid depletion.

COMMON NURSING DIAGNOSES

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: excessive losses through normal routes, NPO status pre and postoperatively.)

Defining Characteristics: (Specify: vomiting with an eventual projectile character, electrolyte losses, signs and symptoms of dehydration, hemoconcentration, decreased urine output.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest, digest food.

Defining Characteristics: (Specify: excessive vomiting especially after eating, chronic hunger, weight loss, failure to gain weight, diminished stools, abdominal distention, NG tube pre and postoperatively for stomach decompression.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: GI obstruction.

Defining Characteristics: (Specify: vomiting that increases in severity leading to dehydration, hunger, and weight loss.)

Goal: Infant will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Absence of vomiting, weight gain (specify for infant) per week.

 \checkmark Skin turgor elastic, mucous membranes moist, intake equals output.

NOC: Risk Control

INTERVENTIONS

- Assess pattern of vomiting, development of projectile vomiting, vomiting that occurs after feeding or hours after feeding, weight loss, diminished stools, palpable mass in the epigastrium to the right of the umbilicus, presence of visible gastric peristaltic waves across the epigastrium.
- Maintain NPO status and NG tube connected to suction, position with head slightly elevated.
- Assess skin for decreased turgor, elasticity, loss of subcutaneous tissue, sunken eyeballs, urinary output (specify frequency).
- Maintain IV fluids and electrolytes (Na⁺, K⁺, CA⁻, Cl⁻), glucose for nutritional support (specify fluid
- and rate).
- Weigh daily at same time on same scale.
- Teach parents about diagnostic tests and procedures done and reason for them.

NIC: Surveillance

RATIONALES

Provides information about presence of hypertrophic pyloric stenosis causing obstruction as the canal to the duodenum narrows.

- Decompresses stomach for 24 to 36 hours in preparation for surgery. Provides information about the
- presence of dehydration caused by excessive vomiting.

Provides hydration and replaces

lost glycogen stores and electrolytes for 24 to 36 hours in preparation for surgery or when needed. Reveals losses or gains related to fluid and nutritional. Provides information needed to reduce anxiety.

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Has infant vomited? What is weight gain per week? What is intake and output? Describe skin turgor and mucous membranes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Change in health status of infant, surgical correction of condition.

Defining Characteristics: (Specify: increased apprehension and expressed concern and worry about impending surgery, pre and postoperative care, treatments while hospitalized and complications following surgery.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize decreased anxiety (use a scale; specify).

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

INTERVENTIONS	RATIONALES
Assess source and level of anxiety and how anxiety is manifested; need for information that will relieve anxiety (use a scale).	Provides information about anxiety level and need for interventions to relieve it; sources for the parent(s) include fear and uncertainty about treatment and recovery, guilt for presence of illness.
Encourage expression of concerns and questions about condition, procedures, and surgery.	Provides opportunity to vent feelings and fears and secure information to reduce anxiety.
Communicate with parents and answer questions calmly and honestly; use pictures, drawings, and models for explanations.	Promotes calm and supportive trusting environment.
Encourage parents to stay with child and assist in care and feeding.	Allows parents to care for and support child and continue parental role.
Give parents as much input in decisions about care and routines as possible.	Allows for more control over situation.
Provide consistent care of infant	Promotes trust and reduces

with familiar staff assigned for care. Inform parents of disease process, physical effects and symptoms of illness. Explain reason for each pre and postoperative procedure or type of therapy, diagnostic tests, surgical procedure and rationales including IV, NG tube, dressings that will be in place. Teach parents about surgical procedure (pyloromyotomy). Demonstrate and teach parents about wound care and dressing changes and allow for return demonstration; apply and pin diaper low or use a urine collecting system to maintain dry dressing and wound. Teach parents to report redness, swelling, or drainage at wound site. Teach parents about feeding after NG tube removed and allow to feed clear liquids slowly and frequently and progress to formula or breast milk expressed by mother or to limit nursing to 5 minutes and gradually increase until previous pattern established, as ordered. Instruct parents to hold infant upright and use nipple that does not flow too rapidly, burp frequently, and place on right side or abdomen after feeding. Inform parents to sponge bathe infant until incision heals. Reassure parents and offer praise for their care of infant.

anxiety.

Provides information to relieve anxiety by knowledge of what to expect. Reduces fear which decreases anxiety.

Reduces anxiety and concern about surgery and outcome. Ensures wound healing without complication of infection.

Indication that infectious process is present.

Promotes comfort and bonding with infant with continuation of parenting role until feeding pattern returns; prevents overdistention of stomach and vomiting.

Facilitates feeding postoperatively and prevents vomiting and possible aspiration.

Promotes comfort and cleanliness
 of infant.
Positive reinforcement reduces
 anxiety associated with
 learning new skills.

NIC: Anxiety Reduction

Evaluation

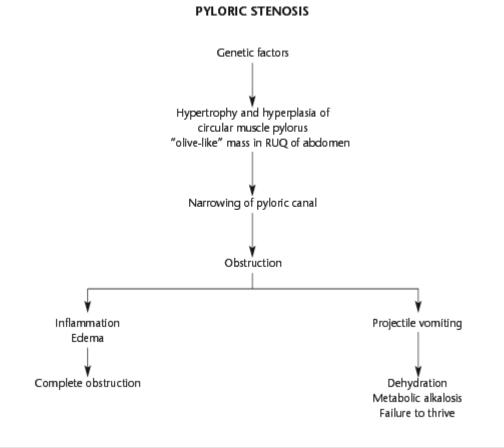
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What do parents verbalize about their feelings of anxiety?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR PYLORIC STENOSIS



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UNIT 5 - GENITOURINARYSYSTEM

CHAPTER 5.0 - GENITOURINARY SYSTEM: BASIC CARE PLAN

INTRODUCTION

The genitourinary system is made up of the reproductive organs, the kidneys, ureters, urethra, and bladder. The kidneys regulate fluid and electrolyte balance, maintain the pH of the body, and provide for the excretion of the end product of protein metabolism in the form of urea. Fluid and electrolyte balance is controlled by filtration, reabsorption, and secretion of these substances during urine formation in the glomeruli and renal tubules. The kidneys produce erythropoietin-stimulating factor in response to lowered oxygen levels, which increases red blood cell production in the bone marrow. They also release renin in response to hypotension, which initiates the renin-angiotensin pathway to increase blood pressure.

Urine descends through the ureters to the bladder, where it is stored until it is excreted via the urethra. Disease processes may cause inflammation, tissue damage, and scarring with resultant dysfunction of the organs or structures of the genitourinary system. Structural defects may be either congenital or acquired and can obstruct urine flow causing renal damage and possibly lead to kidney failure. The kidneys of infants and children are immature in regard to fluid and electrolyte balance because of their limited ability to concentrate urine. This creates increased risk for fluid and electrolyte fluctuations and the possibility of dehydration during illness. Renal function matures as the child grows.

GENITOURINARY GROWTH AND DEVELOPMENT

ORGAN STRUCTURE

- Infant kidney size is, proportionately, three times larger than adult size
- The number of nephrons increase until 1 year of age with continued maturation of the nephrons throughout development of the young child.

• Tubules and glomeruli continue to form and enlarge after birth; tubular length is highly variable but glomeruli size is less variable; tubular length increases until 3 months of age.

- The loop of Henle is short in the infant which affects ability to reabsorb water and sodium causing urine to be dilute.
- The length of the urethra in children is proportionately shorter according to their growth and age.

• The urinary bladder increases in size with growth and development and is considered an abdominal organ in infancy; it becomes a pelvic organ with growth.

• Urinary output and bladder capacity increase with growth:

Infant: 350 to 550 ml/24 hr

Child: 500 to 1000 ml/24 hr

Adolescent: 700 to 1400 ml/24 hr

GROWTH AND DEVELOPMENTAL CHANGES

• Glomerular filtration and absorption values are reached between 1 to 2 years of age.

• The kidneys' ability to concentrate urine increases at 3 months of age with urea synthesis and excretion reaching adult levels by this time; by age 2, urine is concentrated at the adult level.

• Excretion of water and hydrogen ion is reduced during infancy and excretion of sodium is also reduced during the first month of life with an inefficient reabsorption of sodium.

• The volume of urinary output varies with age:

Infant: 5 to 10 ml/hr

10 yr old: 10 to 25 ml/hr

• The number of voidings/day vary but decrease with age as urine becomes more concentrated.

• Voluntary control of the urethral sphincter is achieved between 18 to 24 months of age with night control of bladder usually achieved by 3 years of age; by 4 years of age, bladder capacity reaches 250 ml which allows the child to remain dry at night.

• The amount of total body water varies with age, growth, and sex and decreases as the child grows and develops

Birth: 75 to 80% of weight

3 yr old: 63% of weight

12 yr old: 58% of weight

• Extracellular fluid levels decrease within the first year. Intracellular fluid volume increases with the growth of muscles and organs.

• The infant and young child have greater intake and output relative to size than older children, and water loss or decreased intake are more likely to cause dehydration as this age group is more vulnerable to fluid and electrolyte alterations.

• The increased amount of extracellular fluid results in a high water turnover (50% of the extracellular fluid is exchanged daily) and higher tendency to develop dehydration.

• Water loss through respirations, increased metabolism is greater in children; the greater surface area increases water loss through the skin.

• Acid-base balance is maintained by a buffer system that is less mature in children.

• The newborn is at risk of developing severe metabolic acidosis because hydrogen ion excretion is reduced, immature kidneys cannot conserve water efficiently, high metabolic levels produce increased acid, and plasma bicarbonate levels are low.

• Sodium excretion is reduced in the immediate newborn period, and the kidneys are less able to adapt to deficiencies and excesses of sodium.

• Infants have a diminished capacity to reabsorb glucose and, during the first few days of life, to produce ammonium ions.

NURSING DIAGNOSES

RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: vomiting, diarrhea, excessive renal excretion, dry skin and mucous membranes, weight loss, decreased urinary output, altered intake, sunken fontanels in infant, decrease of tears and saliva, sunken soft eyeballs, nasogastric suction, fistula.)

Related to: Factors influencing fluid needs.

Defining Characteristics: (Specify: hypermetabolic states, temperature elevation [diaphoresis], increased insensible loss [respirations, perspirations], failure to absorb or reabsorb water, excessive renal excretion, extremes of age, water output exceeds intake.)

Related to: Medications.

Defining Characteristics: (Specify: use of diuretics, administration of IV fluids containing NaCl.)

Goal: Client will maintain fluid balance by (date and time to evaluate).

Outcome Criteria

 \checkmark Intake equals output.

 \checkmark Mucous membranes are moist, elastic skin turgor (specify for infant: fontanels flat).

NOC: Fluid Balance

INTERVENTIONS

RATIONALES

- Assess fluid losses, sources, amounts, and effects; urinary output (should be 1-2 ml/kg/hr; weigh diapers for infant and calculate as 1 ml/gm); vomiting (include spitting up); diarrhea (include watery or bloody); stoma drainage (liquid); nasogastric aspirate (suctioning); insensible losses (respirations, diaphoresis from body temperature or ambient temperature); wound damage hemorrhage (fluid volume reduced); injury (burns).
- Assess intake and accurately compare to losses (q 2-8h) for I&O determination
- Provides information about body fluid losses and depletion which can lead to serious consequences in the infant/child; include output analysis when comparing to intake; causes include failure to absorb or reabsorb water, reduced intake or NPO status, excessive renal excretion, inappropriate ADH secretion, increased temperature or respirations, over-use of diuretic therapy, improper fluid replacement.
- Provides strict I&O to determine positive or negative balance and

and balance; oral intake (liquids, fluid content of foods/formula, foods that become liquid at body temperature, fluids given with medications); parenteral (IV, IM, TPN); enteral (NG, gastrostomy tube feedings).

Assess infant's weight (undressed without diaper) on the same scale.

Assess for presence of dehydration (q 2-8h) including decreased urinary output, poor skin turgor, dry skin and mucous membranes, gray or mottled color to skin, reduced or absent tears and saliva, sunken, soft eyeballs (sunken fontanels in infants), increased sp. gr. and serum osmolality, blood urea nitrogen (BUN), creatinine, hemoglobin, creatinine hematocrit, thirst in the older child, vital signs changes (tachycardia, lowered blood pressure, postural changes in blood pressure). Assess (and teach parents) for presence of electrolyte depletion (specify).

Potassium (K⁺): muscle weakness and cramping, irritability, fatigue, hypotension, arrhythmias.

Sodium (Na⁺): nausea, abdominal cramps, weakness, dizziness, apathy.

Calcium (Ca⁺⁺): tingling of fingertips, toes, hypotension, muscle irritability, tetany.

Assess urinalysis, electrolyte panel,

potential for fluid deficit/ dehydration; mild dehydration: less than 50 ml/kg fluid loss; moderate dehydration: 50 to 90 ml/kg; severe dehydration: about 100 ml/kg.

Determines losses related to fluid deficit and potential for dehydration; mild dehydration: loss of 5% in infant, 3% in older child; moderate: loss of 10% in infant, 6% in older child; severe: loss of 15% in infant, 9% in older child. Reveals signs and symptoms of dehydration and hydration status; dehydration occurs when output exceeds intake and is classified as isotonic dehydration (water and electrolyte deficits equal); hypertonic dehydration (water loss is greater than sodium loss); hypotonic dehydration (sodium loss is greater than water loss).

Reveals signs and symptoms of electrolyte imbalance which are related to specific diseases; provides information regarding fluid/ electrolyte imbalances, kidney function and risk for acidosis or alkalosis.

K⁺: excessive urinary output, diuretic therapy, vomiting, diarrhea, NG aspirate (functions in neural transmission in smooth, skeletal and cardiac muscle).

Na⁺: excessive water loss via any route, fever, diaphoresis, vomiting, diarrhea, NG aspirate, fistula or wounds (functions to control movement of fluid between fluid compartments).

Ca⁺⁺: renal insufficiency, loss through gastrointestinal route, inadequate Ca⁺⁺ intake or vitamin D deficiency (functions to prevent metabolic acidosis). Provides information regarding fluid/ serum and urine osmolality, blood urea nitrogen, creatinine, arterial blood gases, as indicated. Encourage increased oral fluid intake in proportion to losses; provide a varied selection of beverages (specify); if the fluid volume deficit is caused by diarrhea, allow child to request oral fluid preferences or provide ORT solutions; start with rapid replacement for 4 to 6 hours and continue over 24 hours for maintenance therapy as tolerated: Infant: 150 ml/kg/day Toddler: 120

ml/kg/day Preschool: 100 ml/kg/day School-age: 75 ml/kg/day Provide oral rehydration therapy (i.e.,

Provide oral renydration therapy (i.e., Pedialyte, Rehydralyte, Infalyte) for infant.

Prepare child and initiate IV fluid therapy with (specify: solution rate and amount).

Teach parents (and child) about need for IV fluids, how the pump works, what alarms mean. Reassure the child that the IV is not a punishment. Use infusion pump or volume control chamber for IV with a pediatric infusion set with long tubing and restrain body parts as needed.

Monitor IV hourly for amount, site infiltration, tube patency or displacement; change fluid bag and tubing (q 24h), use a transparent occlusive dressing over IV site.

Provide non-nutritive sucking for infant, hold and cuddle child, mouth care (spray water into mouth) for oral dryness.

During IV therapy, note presence of headache, cramps, vomiting, crackles, muscle twitching, lethargy, decreased urine output.

Discontinue IV when fluids are tolerated orally; begin with small amounts of clear fluids, gradually increase in amounts and frequency as tolerated to regular diet; baby food for infants.

electrolyte imbalances, kidney function and risk for acidosis or alkalosis. Provides replacement of lost fluids if able to retain PO; child requires 750 to 2000 ml/day fluids depending on age and weight and calculation of losses; fluids with a high carbonation content, usually have a low electrolyte content; the caffeine in caffeinated soft drinks acts as a mild diuretic and may lead to increased loss of water and sodium; chicken or beef broth contains excessive sodium and inadequate carbohydrates.

Promotes fluid and electrolyte replacement and prevents risk of dehydration and electrolyte deficits.

Provides immediate replacement and ongoing prevention of losses for those who are unable to ingest fluids PO.

Teaching helps parents and child cope with IV therapy.

Provides regulated and accurate fluid rate and volume with a microdrip IV infusion set (60 gtt/ml); long tubing allows for movement in bed, and proper restraining and monitoring provides safe IV administration. Ensures safe fluid administration; allows for ROM of restrained parts, prevents complication of IV therapy.

Provides support and comfort to infant/ child.

Indicates overhydration.

Resumes oral fluid intake when condition improves; oral intake may be resumed as soon as 5 to 50 hours after surgery.

Employ play at developmental level	Pr
including games, use of straws, small	
cup (medicine or animal image cup,	
specify).	
Place water and cup in room and allow	Pr
to take frequent sips; praise child	
for drinking fluids.	

Allow child to participate in the fluid selection and scheduling, to record intake using symbols or checks with colors.

Teach parents and child the amount of fluid needed by the infant/child daily and therapeutic need based on disorder or illness.

Teach to measure I&O and allow for return demonstration by calculating and measuring for 24 hours.

Suggest referral to a nutritionist for administration of electrolyte formula, dilution of fluids, caloric and sodium content of commercial fluids.

NIC: Fluid and Electrolyte Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What has been intake [specify time]? What has the output been [time]? Describe moisture of mucous membranes and skin turgor. Describe infant's fontanels.)

(Revisions to care plan? D/C care plan? Continue care plan?)

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Promotes oral intake of fluids when child is ill and doesn't fulfill fluid goals.

Promotes adequate intake of fluids and promotes independence.

Promotes independence and control over the situations and enhances compliance.

Provides information about fluid needs as a basic need and increase of fluid need as treatment for deficit.

Permits accurate monitoring of I&O to determine risk for dehydration.

Provides information and instruction and support to parents for safe fluid administration PO. 0-7668-5994-0

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CHAPTER 5.1 - CHRONIC RENAL FAILURE

INTRODUCTION

Chronic renal failure (CRF) is the progressive deterioration of kidney function that reaches 50% or more loss or a creatinine level of less than 2 mg/dl. Causes include congenital kidney and urinary tract abnormalities in children less than 5 years of age, and glomerular and hereditary kidney disorders in children 5 to 15 years of age. The disease involves all body systems as abnormalities include water, Na^+ , Ca^{++} losses, K^+ , HPO^{2-}_{4} ,

Mg⁺⁺ increases, and reduced Hgb and Hct that result in metabolic acidosis, anemia, growth retardation, hypertension, and bone demineralization. Eventually, if untreated, uremic syndrome develops as the kidneys are not able to maintain fluid and electrolyte balance. End stage renal disease (ESRD) is defined as loss of kidney function at 90% or greater. ESRD is the term applied when the kidneys are no longer able to clear wastes from the body. Eventually the disease terminates in death unless kidney transplantation or dialysis is performed.

MEDICAL CARE

Electrolyte Panel: at diagnosis lab results will reveal decreased Ca^{++} , Cl^- , CO_2 , and *increased* K^+ , HPO^{2-}_4 , Na^+ , and hydrogen ions. With diuretic therapy and increased K^+ intake, lab results may display decreased K^+ and Na^+ .

Diuretics: furosemide, or hydrochlorothiazide to promote excretion of water and electrolytes to reduce edema associated with renal failure.

Antihypertensives: for severe hypertension.

Alkalizing Agents: metabolic acidosis is treated with oral alkalizing agents, such as sodium bicarbonate or a combination of sodium and potassium citrate (Bicitra).

Antibiotics: specific to identified microorganisms and sensitivity to specific antimicrobials to prevent or treat infection with dosage adjusted to renal function to prevent toxicity.

Vitamins/Minerals: water-soluble vitamins may be prescribed (B, C, folic acid, niacin) and vitamin D is prescribed. Folic acid (and sometimes ferrous sulfate) is prescribed to enhance iron absorption.

Renal Scan/Renal Ultrasound: may reveal renal abnormality.

Calcium Carbonate Preparations: used as phosphate binders, also act as a calcium supplement and as an alkalizing agent.

Aluminum Hydroxide Gels: are effective phosphorus binders. Only used for severe or unresponsive hyperphosphatemia due to risk of aluminum toxicity.

Epogen: recombinant human erythropoietin (rHuEPO) is prescribed to treat anemia.

Growth Hormone: recombinant human growth hormone is used to treat growth retardation secondary to CRF and following renal transplant.

Blood Urea Nitrogen (BUN): reveals increases as renal failure progresses and protein catabolism increases.

Serum Creatinine: reveals increases as renal failure progresses and glomerular filtration rate is reduced.

Electrolyte Panel: reveals decreased Na⁺, Ca⁺⁺, Cl⁻ and increased K⁺, CO₂.

Complete Blood Count: reveals decreased RBC, Hct, Hgb, WBC, reticulocyte count.

Prothrombin Time (PT): Activated Partial Thromboplastin Time (APPT): reveals prolonged time as erythropoietin production is reduced.

COMMON NURSING DIAGNOSES

See EXCESS FLUID VOLUME

Related to: Compromised regulatory mechanism.

Defining Characteristics: (Specify: edema, water and Na retention, weight gain, clothes begin to feel tight, decreased urine output, facial puffiness, altered electrolyte, shortness of breath, crackles, hypertension, vascular congestion.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Loss of appetite.

Defining Characteristics: (Specify: anorexia, nausea, fatigue, weight loss, limited K^+ , HPO²⁻₄ and protein food intake, poor absorption of Ca⁺⁺, iron by intestines, growth retardation; may observe weight gain [caused by fluid retention and oliguria] or weight loss (caused by anorexia and electrolyte disturbances].)

See HYPERTHERMIA

Related to: Renal failure.

Defining Characteristics: (Specify: frequent infections, increase in body temperature malaise.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Chronic renal failure.

Defining Characteristics: (Specify: dryness, pruritis, uremic frost, sallow color, disruption of skin surfaces from scratching secondary skin breakdown [caused by edema].)

See DELAYED GROWTH AND DEVELOPMENT

Related to: (Specify: loss of appetite, depletion of body protein, decreased erythropoietin production, and related metabolic disturbances.)

Defining Characteristics: (Specify: altered physical growth, delay in sexual maturation, frequent absences from school and disruptions in socialization, inability to participate in activities, frequent hospitalizations.)

ADDITIONAL NURSING DIAGNOSES

ACTIVITY INTOLERANCE

Related to: Weakness.

Defining Characteristics: (Specify: complaints of fatigue on exertion, preference for quiet play, lack of energy.)

Goal: Child will progress to increased tolerance for activity by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify an activity level appropriate for child; e.g., child will go to playroom for 15 minutes each afternoon.)

NOC: Activity Tolerance

INTERVENTIONS

RATIONALES

Assess degree of weakness, fatigue, ability to participate in activities (active and passive). Schedule care and provide rest periods following an activity; encourage child to set own limits in amount of exertion tolerated. Provide for quiet play, reading, TV, games during times of fatigue.

Explain to child reason for restrictions; explain when to stop activity and rest to child. Teach parents and child that full participation in activities is important and should be encouraged for as long as possible (within capabilities and disease restriction). of activities on fatigue and energy reserves. Promotes independence and control of situations as the presence of a chronic disease may encourage independence. Provides diversion, stimulation and requires minimal energy expenditure. Promotes understanding of the need to conserve energy and rest. Promotes an active and normal life for the child with a chronic illness.

Provides information about effect

NIC: Activity Therapy

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What has been child's activity level? How does it compare with the outcome criteria?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: (Specify: pulmonary edema, metabolic acidosis, uremia, loss of appetite.)

Defining Characteristics: (Specify: changes in respiratory pattern, productive cough with yellow or other abnormal color, adventitious sounds, elevated temperature, cloudy, foul smelling urine, dysuria, urgency, frequency.)

Goal: Child will not experience infection by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ Temperature remains <99° F, WBC count < (specify for age), urine and/or blood cultures negative.

NOC: Risk Control

INTERVENTIONS	RATIONALES
Assess lab results for infection (elevated WBC and positive blood cultures).	To prevent and treat infection.
Assess temperature, respiratory and urinary system changes as disease progresses (specify frequency).	Provides information about presence of infection caused by progressive chronic disease and its deteriorating effect on all systems.
Administer antibiotic therapy as ordered (specify drug, dose, route, and times).	Prevents or treats infection (action of drug).
Perform handwashing, medical or surgical asepsis during procedures or care as appropriate. Instruct child and parents in handwashing technique, proper disposal of tissues and used articles.	Prevents transmission of pathogens to child.
Secure urine or sputum cultures for analysis.	Identifies presence and type of microorganism responsible for infection and specific sensitivities to antibiotic therapy.
Teach parents and child to decrease growth of microorganisms by bathing daily, wiping from front to back after toileting, and wearing loose cotton underwear.	Information empowers parents and child to help prevent infection.
Teach child to avoid contact with persons with upper respiratory infections.	Prevents transmission of infectious agents that may lead to pneumonia.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is child's temperature and WBC count? What are results of any urine/blood cultures?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED BODY IMAGE

Related to: Biophysical and psychosocial factors.

Defining Characteristics: (Specify: verbal and nonverbal responses to change in body appearance, disruptions in school attendance and participation in school activities and socialization, negative feelings about body, multiple stressors and change in daily living, severe growth retardation [in height and weight]; dry skin, facial puffiness.)

Goal: Child will experience improved body image by (date and time to evaluate).

Outcome Criteria

 \checkmark Verbalization of positive feelings about self.

NOC: Self-Esteem

INTERVENTIONS	RATIONALES
Assess child for feelings about abilities, chronic illness, difficulty in school and social situations, short stature, inability to keep up with peers.	Provides information about status of self-concept and special needs.
Encourage expression of feelings and concerns and support communication with parents, teachers, and peers.	Provides opportunity to vent feelings and reduce negative feelings about change in appearance.
Stress positive activities and accomplishments, avoid negative comments.	Enhances sense of positive body image, confidence, self-esteem.
Teach parents to maintain support for child.	Encourages acceptance of the child with special needs (dialysis, dietary requirements, urinary device, medications).
Encourage parents to be flexible in care of child and to integrate	Promotes well-being of child and sense of belonging.

care and routines into family routines. Teach child and parents about food selections which can be tolerated when eating out with friends. Promotes social interactions with peers within limitations imposed by disease.

NIC: Self-Esteem Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did child verbalize about self?)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANTICIPATORY GRIEVING

Related to: (Specify: perceived potential loss of child by parents; perceived potential loss of physiopsychosocial well-being by child.)

Defining Characteristics: (Specify: expression of distress of potential loss, inevitable kidney failure, kidney dialysis, premature death of child.)

Goal: Parents and child will begin to work through the grief process by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents will verbalize stages of grief.

 \checkmark Parents and child will identify 3 positive coping methods.

NOC: Family Coping

INTERVENTIONS Assess stage of grief process, problems encountered, feelings regarding long-term illness and potential loss of child.	RATIONALES Provides information about stage of grieving as time to work through the process varies with individuals; the longer the illness, the better able the parents and family will be able to move towards acceptance.
Provide emotional and spiritual	Provides for emotional needs of
comfort in an accepting	parents and assists them to cope
environment and avoid	with ill child without adding
conversations that will cause	stressors that are difficult to
guilt or anger.	resolve.
Allow for parental and child	Allows for reactions necessary to

responses and expression of work through grieving. feelings. Assist to identify and use effective Promotes use of coping mechanisms coping mechanisms and to over long period of time of understand situations over which illness; chronic disease causes physical and emotional stress on they have no control. family members which may be positive or negative. Offers information and support to Refer to social worker and/or counseling as appropriate parents and family in need of psychologic, economic (specify). assistance. Teach parents of stages of grieving Promotes understanding of feelings and behaviors that are common in and behaviors that are manifested resolving grief. by grief. Assist parents and child to develop Promotes coping ability over coping skills, problem solving prolonged period of illness and skills and approaches that may be assists in resolution of family used. stress. Refer to clergy, local support Provides support and assistance in groups for kidney diseases. adapting and accepting chronic National Kidney Foundation illness and services and (specify). information for care.

NIC: Grief-Work Facilitation

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did parents say about the stages of grief? What 3 coping mechanisms were identified? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Renal failure.

Defining Characteristics: (Specify: complications of impaired renal function, hypertension, anemia, metabolic acidosis, osteodystrophy, neurologic manifestations, uremic syndrome if disorder untreated.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark BP remains (specify range for child).

7	of	1	1

 \checkmark Hgb and Hct remain > (specify lower limit).

 \checkmark Child denies bone pain or sensory loss.

NOC: Risk Control

INTERVENTIONS

Assess blood pressure for alterations; administer antihypertensives ordered (specify). Assess I&O, electrolyte panel, and creatinine; administer diuretics as ordered (specify).

Assess RBC, Hct, Hgb and administer iron and transfusion of packed red blood cells, as ordered (specify).

Assess bone pain and deformities affecting ambulation and activities; administer supplemental vitamin D, calcium and alkalizing agents, as ordered.

Assess presence of acidosis by pH, bicarbonate losses and administer alkalizing agents (specify).

Assess for sensory loss, confusion and changes in consciousness.

Teach parents medication administration including actions, dosage, frequency, side effects to report. syndrome.

Instruct parents and child in dietary regimen, to restrict Na⁺, K⁺, HOP²⁻4

RATIONALES

- Provides data regarding hypertension evident in advanced renal disease (action of drug).
- Provides indication of renal function affecting output with water and electrolyte retention as disease progresses and nephrons are destroyed (action of drug).
- Provides indication of anemia caused by the reduced production of erythropoietin by the failing kidneys and inadequate intake of iron in a restricted diet.
- Provides indication of osteodystrophy caused by a calcium phosphorus imbalance resulting in bone demineralization and growth retardation; kidney disease results in the inability to synthesize
- vitamin D needed to absorb Ca⁺⁺; acidosis causes dissolution of alkaline salts of bone, phosphate is increased, and calcium decreased as glomerular filtration is reduced.
- Provides indication of impending metabolic acidosis caused by the inability of the failing kidneys to excrete metabolic acids that are byproducts of metabolism; the hydrogen ion is retained and bicarbonate is lost as the tubules are unable to reabsorb it.
- Reveals possible changes in neurologic status as kidney function deteriorates and uremic syndrome appears.
- Ensures compliance of correct medication administration; long-term of many medications are given for disease to prevent complications and uremic
- Promotes compliance with dietary inclusions or restrictions depending

and include Ca ⁺⁺ , iron in diet, to restrict protein and water intake if appropriate and amounts allowed; offer lists of foods and sample menus for planning (specify).	on degree of renal failure.
Teach parents and child of dialysis procedure and frequency if appropriate; include biologic, psychological and social effects.	Provides information if renal dialysis is needed; usually based on creatinine level which indicated the ability of the kidneys to excrete waste materials and the degree of renal failure.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

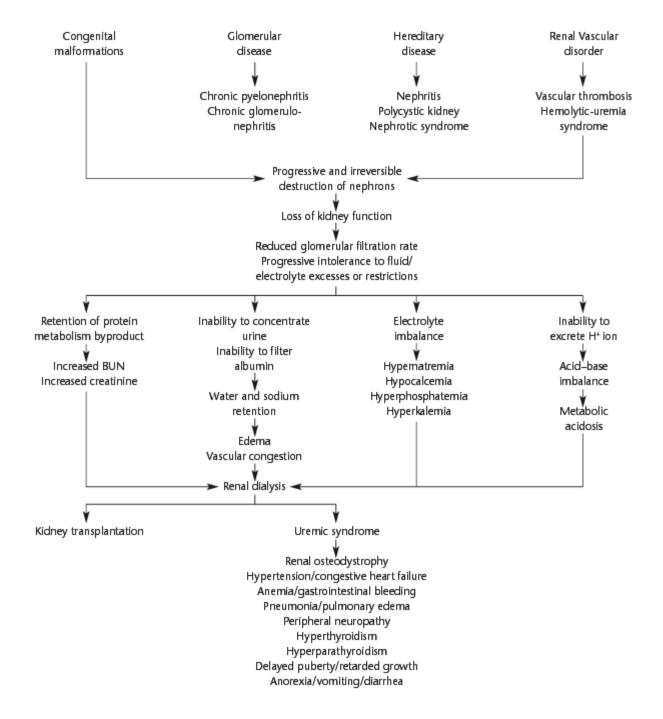
(Has goal been met? Not met? Partially met?)

(What is BP? Hgb and Hct? What does child say about bone pain? Give examples of sensory ability.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CHRONIC RENAL FAILURE

CHRONIC RENAL FAILURE



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CHAPTER 5.2 - GLOMERULONEPHRITIS

INTRODUCTION

Acute glomerulonephritis (AGN) is an alteration in renal function caused by glomerular injury, which is displayed by the classic symptoms of gross hematuria, mild proteinuria, edema (usually periorbital), hypertension, and oliguria. AGN is also classified as either: a primary disease, associated with group A, beta-hemolytic streptococcal infection; or a secondary disease, associated with various systemic diseases (i.e., systemic lupus erythema, sickle cell disease, Henoch's chorea purpura). The most common type of AGN is the primary disease, described as an immune-complex disease (or an antigen-antibody complex formed during the streptococcal infection which becomes entrapped in the glomerular membrane, causing inflammation 8 to 14 days after the onset of this infection). AGN is primarily observed in the early school-age child, with a peak age of onset of 6 to 7 years. The onset of the classic symptoms of AGN is usually abrupt, self-limiting (unpredictable), and prolonged hematuria and proteinuria may occur. AGN results in decreased glomerular filtration rate causing retention of water and sodium (edema); expanded plasma and interstitial fluid volumes that lead to circulatory congestion and edema (hypervolemia); hypertension (cause is unexplained; plasma renin activity is low during the acute phase, hypervolemia is suspected to be the cause).

MEDICAL CARE

DIAGNOSTIC EVALUATION

Urinalysis: reveals gross hematuria, and some proteinuria, increased specific gravity. Microscopic examination of the urine sediment will reveal: red blood cells, leukocytes, epithelial cells, granular and red blood cast cells. Bacteria not present, urine cultures negative.

Creatinine Clearance: reveals increase in AGN. Determines presence of severe renal impairment.

Blood Urea Nitrogen (BUN): determines presence of renal disease, dehydration, hemorrhage, high protein intake, corticosteroids therapy.

Electrolyte Panel: will reveal normal electrolytes (sodium, potassium, and chloride ions) and carbon dioxide levels (unless the AGN has progressed to renal failure).

Complete Blood Count: reveals decreased RBC, Hct, Hgb and increased WBC.

Throat Culture: positive cultures of the pharynx (occur in only a few cases).

Antistreptolysin O (ASO): an ASO titer of 250 Todd units or higher is diagnostic for AGN, as is a rising titer in 2 samples taken a week apart.

Erythrocyte Sedimentation Rate (ESR), C-Reactive Protein (CRP), and Serum Mucoprotein Test: are all elevated during the early stages of AGN and then gradually return to normal as healing occurs.

MEDICAL MANAGEMENT

Diuretics: to treat edema and fluid overload.

Antihypertensives: with diuretics to decrease blood pressure.

Hyperkalemia Treatment: if hyperkalemia is present, administration of calcium, glucose and insulin, or a sodium polystyrene sulfonate (Kayexalate) enema may be required.

COMMON NURSING DIAGNOSES

See EXCESS FLUID VOLUME

Related to: Compromised regulatory mechanism.

Defining Characteristics: (Specify: dependent edema, periorbital edema, pleural effusion, puffiness in the face, moderate blood pressure increases, intake greater than output, weight gain, azotemia, crackles and pleural effusion (occasionally is seen if pulmonary congestion occurs), decreased Hgb and Hct, altered electrolytes, decreased urinary output.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Loss of appetite.

Defining Characteristics: (Specify: anorexia fatigue, nausea, vomiting, malaise, no added-salt diet, lethargy, abdominal discomfort.)

See INEFFECTIVE TISSUE PERFUSION: CEREBRAL

Related to: (Specify: hypervolemia, hypertensive encephalopathy, cerebral ischemia.)

Defining Characteristics: (Specify: early signs of hypertensive encephalopathy: headache, dizziness, abdominal discomfort, and vomiting; if hypertensive encephalopathy worsens: transient loss of vision and/or hemiparesis, disorientation, generalized convulsions (tonic/clonic type), coma.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Edema, altered circulation.

Defining Characteristics: (Specify: bed rest, impaired tissue perfusion, pressure on skin and bony prominences, pink or redness of skin, disruption of skin from IV infusions.)

ADDITIONAL NURSING DIAGNOSES

ACTIVITY INTOLERANCE

Related to: Generalized weakness, bed rest.

Defining Characteristics: (Specify: expressed weakness and fatigue, anemia, lethargy.)

Goal: Child will progress to increased tolerance for activity by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify an activity level appropriate for child; e.g., child will play with a puzzle.)

NOC: Activity Tolerance

INTERVENTIONS

RATIONALES

- Assess weakness, fatigue, ability to move about in bed and participate in play activities. Schedule care and provide rest periods following any activity in a quiet environment. Maintain bed rest during the acute stage, disturb only when necessary. Provide for guiet play, reading, H
- Provide for quiet play, reading, TV, games as symptoms subside.
- Explain reason for activity restriction to parents and child.
- Inform parents and child to rest following ambulation or any activity.
- Instruct parents and child to rest when feeling tired.

Provides information about energy reserves during the acute phase of the disease and acceptance of bed rest status. Provides adequate rest and reduces stimuli and fatigue.

- Conserves energy and decreases production of waste materials which increases work of the kidneys.
- Provides diversion, stimulation and requires minimal energy expenditures.
- Promotes understanding of the need to conserve energy and rest to promote recovery. Prevents fatigue and conserves
- energy during recovery.
- Prevents fatigue and promotes recovery.

NIC: Activity Therapy

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What has been child's activity level? How does it compare with the outcome criteria?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Chronic disease.

Defining Characteristics: (Specify: persistent streptococcal infections.)

Goal: Child will not experience infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Child denies sore throat.

 \checkmark Throat cultures are negative.

NOC: Risk Detection

INTERVENTIONS

RATIONALES Indicates persistence of

Assess temperature, chills, sore throat, cough (presence or recurrence).Obtain throat culture for analysis and sensitivities.

Administer antibiotic therapy to child and to family members if ordered (specify).

Instruct parents about antibiotic
 therapy and to administer full
 course of medication.
Provide for disposal of used
 tissues and articles properly.

Instruct child and family to wash hands after sneezing/coughing and to dispose of used tissues. Instruct parents to avoid exposure of child to others with upper respiratory infection. Inform parents to report fever, cough, sore throat.

to specific antibiotic therapy. Destroys microbial agents by preventing cell wall synthesis and prevents transmission to family members. Promotes parental understanding and prevents development of super-infection. Prevents transmission of microorganisms to others or reinfection. Prevents spread of disease. Prevents respiratory infections in the susceptible child. Indicates infection and

streptococcal infection.

microorganism and sensitivity

Identifies streptococcal

provides for early intervention.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does child deny sore throat? What are results of throat cultures?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Impaired renal function.

Defining Characteristics: (Specify: complications of impaired renal function, hypertension, cardiac failure, renal failure; risk of complications (i.e., encephalopathy, congestive heart failure, acute renal failure).)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark BP remains (specify range for child).

 \checkmark Child denies headache, appears calm.

NOC: *Risk Detection*

INTERVENTIONS

RATIONALES

Assess BP, pulse, respirations q 4h (monitor BP q 1h if diastolic is more than 90, pulse and respirations q 1h if tachycardia, tachypnea or dyspnea present).

Assess changes in I&O, extent of edema, decreased urinary output, headache, pallor, electrolyte balance.

- Administer antihypertensives, diuretic therapy, cardiac glycoside (specify) and monitor for expected results (specify).
- Limit fluids as ordered; allow intake of the amount lost via urine and insensible losses (specify).

Limit foods high in Na^+ , K^+ and

protein during the acute phase of

AGN; encourage a diet with the increased carbohydrates and fats (only during acute phase of AGN), as ordered.

Note behavior changes including lethargy, irritability, restlessness associated with hypertension and Provides information about complication of hypertension which may lead to encephalopathy, pulse and respirations that change with heart failure and pulmonary edema. Indicates signs and symptoms of possible renal failure.

Provides therapy for complications if a more severe renal impairment is present (action of drugs).

Prevents further fluid retention and edema in the presence of renal damage.

Provides nutrition during the acute

period with limitation of K^{+}

during oliguria, Na⁺ with presence of edema, protein limitation if oliguria is prolonged.

Indicates need for safety precautions associated with seizure activity as a result of

administer anticonvulsives if ordered (specify).	cerebral changes.
Teach parents about potential for complications and signs and symptoms to report (increased weight, blood in urine with decreased amount of output, complaints of headache and anorexia).	Provides for early intervention to prevent severe renal impairment.
Teach about dietary inclusions and restrictions; offer a list of foods to include and avoid that comply with Na ⁺ , K ⁺ , protein allowances.	Provides nutrition while disease is being resolved.
Encourage to allow activity/rest periods as energy and fatigue requires; progressively increase as condition warrants.	Prevents fatigue and conserves energy during acute stage and convalescence.
Reinforce to parents the need for follow-up care and supervision. infection.	Ensures ongoing monitoring of child for chronic renal disease or persistent streptococcal

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is child's BP? Describe child's behavior. Does child deny headache?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR GLOMERULONEPHRITIS

GLOMERULONEPHRITIS

Post-streptococcal infection (group A, beta-hemolytic) Release of material from the organism into the circulation (antigen)

Formation of antibody

Immune-complex reaction in the glomerular capillary

Inflammatory response

Proliferation of endothelial cells lining glomerulus and cells between endothelium and epithelium of capillary membrane

Swelling of capillary membrane and infiltration with leukocytes Increased permeability of base membrane

Occlusion of the capillaries of glomeruli Vasospasm of afferent arterioles

Decreased glomerular filtration rate

Decreased ability to form filtrate from glomeruli plasma flow

Retention of water and sodium Reduced circulatory volume (hypovolemia) Circulatory congestion

Edema (peripheral and periorbital) Hypertension Decreased urinary output (hematuria, proteinuria) Urine dark in color Anorexia Irritability lethargy Acute glomerulonephritis

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CHAPTER 5.3 - HYPOSPADIAS/EPISPADIAS

INTRODUCTION

Hypospadias and epispadias are congenital defects of the penis that result in incomplete development of the anterior urethra. The congenital defect results in an abnormal urethral opening at any place along the shaft of the penis and may even open onto the scrotum or perineum. The incidence of this defect in the United States is approximately 3.2 in 1,000 live male births or about 1 in every 300 male children. The etiology of this defect is unknown but is associated with a higher familial tendency and by race/ethnic background (more common in whites, Italians, and Jews). Chordee, an abnormal curvature of the penis, is frequently associated with hypospadias. Other associated anomalies/diseases include: undescended testes (9%-32%); inguinal hernia (9%-17%); and Wilms' tumor.

The goal of treatment of this defect is to reconstruct a straight penis with a meatus close to the normal anatomic location. Repair is being performed at progressively younger ages to avoid emotional distress in the young child. Currently, the recommended age for repair is between 3 and 12 months (for hypospadias/epispadias or urethroplasty); and during the first year (for chordee repair or orthoplasty). Three objectives of surgical correction of this defect are: to ensure the child's ability to void in the standing position with a straight stream (will minimize child and parent anxiety); to improve the child's physical appearance and ensure a positive body image; and to preserve sexual function.

MEDICAL CARE

Analgesics: postoperatively to control pain.

Antibiotics: to prevent infection or treat infection postoperatively.

Complete Blood Count: reveals increased WBC if infection present.

Chromosome Analysis: testosterone level reveals male hormone if ambiguous genitalia is present.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Surgical incision.

Defining Characteristics: (Specify: disruption of skin surface, surgical correction of defect, catheter site irritation, poor wound healing or wound infection, edema within the urethra.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify.)

Defining Characteristics: (Specify: NPO preoperatively, temperature elevation with infection, decreased urinary output, inadequate fluid replacement postoperatively, risk of intraoperative hemorrhage and postoperative bleeding.)

See HYPERTHERMIA

Related to: Presence of postoperative wound infection or UTI (specify).

Defining Characteristics: (Specify: increase in body temperature above normal range, warm to touch, increased pulse and respiratory rate, evidence of infection at surgical site, evidence of lower urinary tract infection.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: threat to self-concept, change in health status, change in environment [hospitalization].)

Defining Characteristics: (Specify: expressed apprehension and concern about correction of defect by surgery and the imperfect appearance of the penis following surgery, preoperative and postoperative care.)

Goal: Parents will experience less anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents state they feel less anxious.

NOC: Coping

INTERVENTIONS

RATIONALES

Assess source and level of anxiety and need for information that will relieve anxiety. of procedure and appearance of penis after surgery; whether the penis will be sexually adequate; possibility that correction may need to be done in stages if child is old enough; fear of castration and change in body image.	Provides information about anxiety level and need to relieve it; concerns include the type
Encourage expression of concerns and time for parents (and child) to ask questions about condition, procedures, recovery.	Provides opportunity to vent feelings and fears and secure environment.
Answer questions calmly and honestly; use pictures, drawings, and models for information.	Promotes trust and a calm, supportive environment.
Encourage parents to stay with child during hospitalizations and to assist in care. Ask for parents' input into decisions about care and usual routines.	<pre>Allows parents to care for and support child and continue parental role. Allows for control over situations and maintains familiar routines for care.</pre>

Inform parents of cause of defect, and extent of defect to be corrected, whether a mild defect or severe defect, that correction is best done between 3 to 9 months, placement of meatus on penis, and possible number of procedures necessary to correct defect (specify).	Provides information that will enhance understanding of the defect to relieve anxiety.
Teach parents of reason for surgery (urethroplasty), type of procedure, appearance of penis following surgery and cosmetic results to expect; inform older child that penis will not be cut off and that procedure is not a form of punishment.	Provides rationale for surgery which includes voiding in a standing position with ability to direct stream, improve appearance of penis and preserve self-image, and to develop a sexually adequate penis.
Teach parents about postoperative care (indwelling meatal or suprapubic catheter or stents will be in place; restraints maybe in place; medications will be administered to control pain and promote sedation; specify).	Provides information about postoperative care and what to expect following surgery.
Teach parents relaxation techniques.	Reduces anxiety and promotes ability to provide calm and supportive care.
Reassure parents and child (if appropriate) that defect or surgery will not affect sexual activity or orientation and will not affect	Relieves anxiety produced by fear caused by misinformation.

NIC: Anxiety Reduction

reproductive ability.

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(How do parents evaluate their anxiety now?)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Surgery.

Defining Characteristics: (Specify: communication of pain descriptors, crying, irritability, restlessness, withdrawal, increased P, increased R,

increased BP.)

Goal: Infant will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Infant will score less than (specify pain scale to be used and expected score after interventions).

NOC: Comfort Level

INTERVENTIONS

RATIONALES

Assess verbal and nonverbal	Ρ
behavior; type, location and	
severity of pain depending on	
child's age. (Specify pain	
scale to be used.)	
Administer analgesic and	R
sedative, as ordered	
(specify).	
Place in position of comfort;	Ρ
position catheter to avoid	
tension and kinking.	
Apply ice pack if ordered.	R
Inform parents that medications	Ρ
will prevent pain and	
restlessness and allow for	
healing.	
-	

Provides information about pain as basis for analgesic therapy. Reduces pain and promotes rest which reduces stimuli and pain (action). Promotes comfort and prevents pain from pulling on or manipulating catheter. Reduces edema and pain. Provides information about need for pain medications for child's comfort.

NIC: Pain Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is score on pain scale now?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: (Specify: inadequate primary defenses [surgical incision]; invasive procedure [catheter].)

Defining Characteristics: (Specify: redness, swelling, drainage at incision site; cloudy, foul-smelling urine, elevated temperature, positive urine or wound culture.)

Goal: Infant will not become infected by (date and time to evaluate).

Outcome Criteria

 \checkmark Wound is clean and intact without redness, edema, odor or drainage.

 \checkmark Urine culture negative.

NOC: Risk Control

INTERVENTIONS

Assess wound for redness, swelling, drainage on dressing, healing (specify when). Assess catheter insertion site for redness, irritation, swelling; assess urine collected in drainage system for cloudiness, foul odor, sediment (specify frequency).

Collect urine specimen for culture and sensitivities (as ordered).

Administer anti-infective if culture results are 100,000 ml/mm or more as ordered (specify).

Use sterile technique when changing dressings or giving catheter care or emptying drainage bag. Encourage to increase fluid intake according to age needs (specify).

Maintain catheter and collection bag below level of bladder and a closed drainage system free of kinks in the tubing (if a drainage device is used) then maintain catheter and collection bag-marked in red. Immobilize arms and legs with restraints, remove periodically; use a bed cradle following surgery.

Avoid change of dressing, reinforce as needed, and secure catheter to penis with dressing and tape, and to leg or abdomen with tape. Note urinary output of at least 1 ml/ kg/hr and report if less.

RATIONALES

Provides information indicating
 presence of infection or poor
 healing.
Indicates infectious process at
 catheter site or in urinary
 bladder.

Provides information about specific organism and sensitivity to antibiotic.

Treats specific organism causing urinary infection or prevents infection when catheter is in place.

Prevents contamination by introducing organisms into sterile wound or cavity.

Promotes dilution of urine to prevent urinary infection and after catheter removed will encourage voiding.

Provides information that will enhance understanding of the defect to relieve anxiety.

Prevents accidental removal or disturbance of catheter or contamination of wound if surgical correction done for a more severe defect. Promotes comfort and prevents infection and catheter displacement.

Indicates that catheter obstruction may be present with urinary retention which leads to infection.

Demonstrate to parents catheter care, irrigation, emptying of drainage bag or use of diaper for urine drainage, how to tape catheter and bag to leg; allow for return demonstration.	Provides information and skill in caring and maintaining patency for catheter as child may be discharged with a catheter or stent in place.
Teach parents to avoid allowing child to straddle toys, play in a sandbox, swim, or engage in rough activities until advised by physician.	Prevents trauma to or dislodging of catheter or infection.
Teach parents to sponge bathe the child and use loose fitting clothing, avoiding contact of feces with wound, and instruct in cleansing after each bowel elimination.	Promotes cleanliness and comfort without constriction.
Teach parents in signs and symptoms of infection to report.	Provides information about need for reporting to allow for early treatment.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe wound. What are results of urine culture?)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED URINARY ELIMINATION

Related to: (Specify: mechanical trauma [urethroplasty].)

Defining Characteristics: (Specify: dysuria, frequency, urgency, retention, bladder spasms, inadequate output, edema of the urethra.)

Goal: Client will experience improved urinary elimination by (date and time to evaluate).

Outcome Criteria

 \checkmark Client voids through new or corrected urinary meatus after catheter is removed.

 \checkmark Unable to palpate bladder after voiding.

NOC: Urinary Elimination

INTERVENTIONS Assess I&O ratio, voiding stream, color and amount of urine on first voiding and each subsequent voiding.	RATIONALES Provides information about voiding pattern after clamping or removal of catheter.
Assess for pain, abdominal distention, inability to void for 8 hours after catheter.	Indicates urinary dysfund and possible obstruction continuing edema of mea
Support child after catheter is removed and provide privacy for voiding.	Prevents embarrassment wh is common in an older o
Encourage increased fluid intake after catheter removed, offer preferred liquids q 1h.	Promotes micturition.
Instruct parents to notify physician if urinary pattern changes or if child is unable to void.	Allows for early interver to prevent complication

but nction on or eatus. which child.

ention ons.

NIC: Urinary Elimination Management

Evaluation

(Date/time of evaluation of goal)

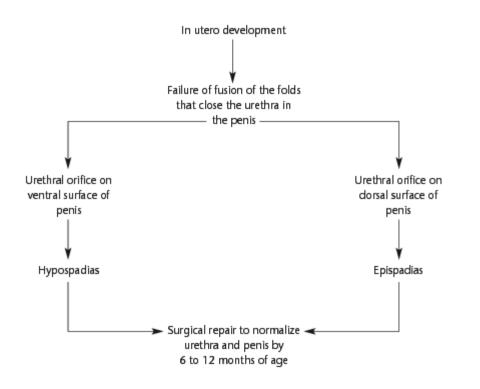
(Has goal been met? Not met? Partially met?)

(Describe client's ability to void through new or corrected meatus. Is bladder palpable above symphysis after voiding?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HYPOSPADIAS/EPISPADIAS

HYPOSPADIAS/EPISPADIAS



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CHAPTER 5.4 - NEPHROTIC SYNDROME

INTRODUCTION

Nephrotic syndrome is an alteration of renal function caused by increased glomerular basement membrane permeability to plasma protein (albumin). Alterations to the glomerulus result in classic symptoms of gross proteinuria, hypoalbuminemia, generalized edema (anasarca), oliguria, and hyperlipidemia. Nephrotic syndrome is classified either by etiology or the histologic changes in the glomerulus. Nephrotic syndrome is also classified into 3 types: primary minimal change nephrotic syndrome (MCNS), secondary nephrotic syndrome, and congenital nephrotic syndrome. The most common type of nephrotic syndrome is MCNS (idiopathic type) and it accounts for 80% of cases of nephrotic syndrome. MCNS can occur at any age but usually the age of onset is during the preschool years. MCNS is also seen more in male children than in female children. Secondary nephrotic syndrome is frequently associated with secondary renal involvement from systemic diseases. Congenital nephrotic syndrome (CNS) is caused by a rare autosomal recessive gene which is localized on the long arm of chromosome 19. Currently, CNS has a better prognosis because of early treatment of protein deficiency, nutritional support, continuous cycling peritoneal dialysis (CCPD), and renal transplantation. The prognosis for MCNS is usually good, but relapses are common, and most children respond to treatment.

MEDICAL CARE

Diagnostic Evaluation: Evaluation is based on the history and the presence of classic clinical manifestations of MCNS.

Urinalysis: reveals great increases of protein (proteinuria) of 3+ to 4+ or 300 to 1000 mg/dl; increased sp. gr.; hyaline-casts and few RBC.

Renal Biopsy: provides information regarding the glomerulus status, type of nephrotic syndrome, expected response to steroids and prognosis.

Creatinine Clearance: reveals increase in MCNS. It will determine presence of severe renal impairment.

Blood Urea Nitrogen (BUN): determines presence of renal disease, dehydration, hemorrhage, high protein intake, corticosteroids therapy.

Serum Protein: reveals decreases in total proteins (albumin and globulin) with electrophoresis revealing a great decrease in albumin.

Serum Lipids: reveals increases with a great increase in cholesterol to 450 to 1500 mg/dl.

Electrolyte Panel: reveals decreased Na⁺ and Ca⁺⁺ and K⁺ at normal level.

Complete Blood Count: reveals normal Hct and Hgb and increased platelet count of 500,000 to 1,000,000 cu/mm resulting from hemoconcentration.

MEDICAL MANAGEMENT

Corticosteroid Therapy: continues until the urine is free from protein and remains normal for 10 days to 2 weeks. A positive response to therapy usually occurs in 1 to 3 weeks.

Plasma Expanders: human albumin for severe edema to increase plasma protein level and promote diuresis.

Diuretics: typically not used; used for edema which interferes with respirations or results in secondary skin breakdown.

Diet: salt is restricted by a no-added salt diet and a diet generous in protein. A high-protein diet is a contraindication with the presence of azotemia and renal failure.

COMMON NURSING DIAGNOSES

See EXCESS FLUID VOLUME

Related to: Compromised regulatory mechanism.

Defining Characteristics: (Specify: edema [pitting], periorbital and facial puffiness in morning and dependent in the evening, abdominal ascites, scrotal or labial edema, edema of mucous membranes of intestines, anasarca, slow weight gain, decreased urine output, altered electrolytes, sp. gr., BP, R.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: inability to ingest and digest foods and absorb nutrients.)

Defining Characteristics: (Specify: anorexia, edema of intestinal tract affecting absorption, weight loss, loss of protein [negative nitrogen balance], rejection of low salt diet.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Edema.

Defining Characteristics: (Specify: disruption of skin surface, waxy pallor, stretched and shiny appearance, muscle wasting, decreased tissue perfusion, pressure on edematous area, irritation of anal area with diarrhea.)

See DIARRHEA

Related to: Inflammation, edema, malabsorption.

Defining Characteristics: (Specify: increased frequency, loose, liquid stools, abdominal discomfort.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: medications, intravascular fluid loss.)

Defining Characteristics: (Specify: diuretic therapy, increased fluid output, urinary frequency, rapid weight loss, hypotension, hypovolemia, protein and fluid loss, edema.)

ADDITIONAL NURSING DIAGNOSES

FATIGUE

Related to: Discomfort.

Defining Characteristics: (Specify: extreme edema, lethargy, easily fatigued with any activity.)

Goal: Child will conserve energy by (date and time to evaluate).

Outcome Criteria

 \checkmark Child alternates activity with rest periods (specify).

NOC: Energy Conservation

INTERVENTIONS

RATIONALES Provides information about

edema is severe. Provides stimulation and activity within endurance level as edema is relieved.

INTERVENTIONS
Assess degree of weakness, fatigue, extent of edema and difficult movement or activity in bed.
Maintain bed rest during most
acute stage.
Provide selected play activities as tolerated and adjust schedule to allow for rest periods and after activity. Plan activities with discretion and observe for behavior changes after activity.
Allow for quiet play followed by unrestricted activity and encourage child to set own limits when feasible.

Promotes independence and control of situations. Reduces fatigue and conserves energy. Inform parents and child that full Promotes return to active life for child.

fatigue and tendency of lying in prone position and not moving or changing position. Prevents energy expenditure when

Prevents fatigue while improving endurance; inactivity and steroid therapy and disease result in mood swings and irritability in the child.

participation in activities will be allowed as the disease is resolved.

Inform child to rest when feeling

NIC: Energy Management

Evaluation

tired.

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe child's activity and rest pattern.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Inadequate secondary defenses.

Defining Characteristics: (Specify: fluid overload, edema, elevated temperature, immunosuppression, suppressed inflammatory response, leukopenia.)

Goal: Child will not become infected by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains <99° F.

 \checkmark Breath sounds clear bilaterally.

 \checkmark Urine is clear without foul odor.

NOC: Risk Detection

INTERVENTIONS

RATIONALES

- Assess temperature elevation, respiratory changes (dyspnea, productive cough with yellow sputum), urinary changes (cloudy, foul-smelling urine), skin changes (redness, swelling, pain in an area) (specify when).
- Provide private room or share room with children who are free from infections.
- Maintain and teach medical aseptic techniques and handwashing when giving care.
- Maintain warmth for child, regulate room environmental temperature and humidity.
- Administer antibiotic therapy if ordered (specify).
- Instruct parents and child to avoid exposure to those with infections. Instruct parents to report any sign
- or symptom of infection to

- Indicates presence of infectious process resulting from steroid and immunosuppressant therapy given to enhance body defenses and reduce relapse rate.
- Protects child from pathogen transmission.
- Promotes measures to prevent infection.

Prevents chilling and predisposition to upper respiratory infection. Prevents or treats infection based on culture and sensitivities (action of drug). Provides understanding of susceptibility to infections.

Allows for immediate medical intervention to prevent

physician immediately.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Describe breath sounds and urine)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of exposure to information about disease.

Defining Characteristics: (Specify: expressed need for information about disease, medication administration, follow-up care and procedures, anxiety associated with relapse of disease.)

Goal: Parents will obtain information about child's illness by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of cause and treatment for illness.

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

therapy.

relapse.

Assess knowledge of disease, signs	Pr
and symptoms of relapse, dietary	
and activity aspects of care,	
medication administration and side	
effects, monitoring urine and VS.	
Assess level of anxiety and need for	Ar
support in care of ill child and	

possible relapse. Teach parents and child about the cause of the child's illness and treatment to expect. Encourage questions and allow time for

discussion.

Teach about medication administration including side effects of steroids and immunosuppressives; that these are reversible when discontinued and must be discontinued gradually.

Provides information about teaching needs for follow-up care.
Anxiety will interfere with learning process.
Teaching provides needed information about the disease and treatment.
Promotes compliance of accurate medication administration and what can be expected from drug

Inform parents that immunizations may be postponed.	Provides safety measure to prevent complications in a child that is immunosuppressive.
Teach parents and child of potential for relapse to avoid infection. Demonstrate and allow for parents to return demonstrate urine testing by dipstick for albumin, monitor for edema, taking daily weights and BP, and to report changes of increased weight or presence of albumin in urine to physician immediately.	Prevents risk of infection that may precipitate a relapse. Allows for monitoring of possible relapse of disease.
Offer praise and encouragement to parents and child as they learn skills.	Positive reinforcement enhances desire to learn new skills.
Reinforce physician instructions	Promotes return to usual
about Na ⁺ restriction, activity progression and pacing.	patterns of living.
Provide information about disease, its causes, need for frequent hospitalizations if disease becomes prolonged or is a relapsing type with remissions and exacerbations.	Promotes understanding of disease process and importance of compliance with therapy to prevent exacerbation.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

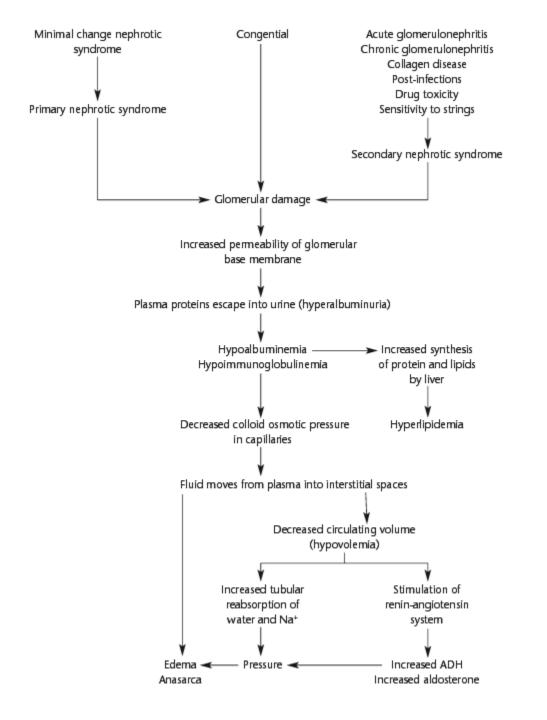
(Has goal been met? Not met? Partially met?)

(What did parents verbalize about the cause and treatment of the child's illness? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR NEPHROTIC SYNDROME

NEPHROTIC SYNDROME (NEPHROSIS)



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CHAPTER 5.5 - SEXUALLY TRANSMITTED DISEASES

INTRODUCTION

Sexually transmitted diseases (STD) are a diverse group of viral, bacterial, protozoal, and ectoparasitic infections that have a common route of transmission through sexual intercourse. Infectious organisms associated with STDs include: *Chlamydia trachomatis; Neisseria gonorrhoeae;* bacterial vaginosis, vulvovaginal candidiasis, trichomoniasis; syphilis; herpes simplex; papillomavirus (genital warts); genital herpes and HIV. Infection by each of the above organisms has its own pattern of clinical patterns; medications/treatments; prognosis; transmission dynamics/host response to infection; and patterns of sexual contact.

STDs are identified as one of the major causes of morbidity during adolescence.

MEDICAL CARE

DIAGNOSTIC EVALUATION

Diagnosis is completed by identification of the organism from direct smear or culture techniques.

Venereal Disease Research Laboratory (VDRL): reveals presence of Treponema pallidum (syphilis) by antibody tests (FTA-ABS and TPI).

Cultures: Urethral and/or cervical smears for microorganism identification in gonorrhea, Chlamydia, urethritis; lesion smear to detect herpes, syphilis.

MEDICAL MANAGEMENT

Antibiotics: specific for the infectious organism.

Anti-viral Medications: to decrease severity and possible prevent recurrent outbreaks.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factor of excretions and secretions, internal factor of infectious agent invasion.

Defining Characteristics: Disruption of skin surface, invasion of body structures, pus from urethra or cervix, vesicles on genitalia, buttocks, thighs, penile or vaginal discharge, chancre lesion on penis or female genitalia, skin rash, popupapules on skin, blisters and ulcerations on genitalia, itching and burning of lesions or sores, conjunctivitis, pharyngitis, dermatitis.

See HYPERTHERMIA

Related to: Pelvic inflammatory disease.

Defining Characteristics: (Specify: increase in body temperature above normal range, warm to touch, increased pulse and respiratory rate, evidence of infectious process.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about disease.

Defining Characteristics: (Specify: expressed need for information about treatment and prevention of recurrence of sexually transmitted disease.)

Goal: Child will obtain information about sexually transmitted diseases and how to prevent them by (date and time to evaluate).

Outcome Criteria

 \checkmark Client verbalizes understanding of mode of transmission for STDs and identifies 2 ways to avoid becoming infected.

NOC: Knowledge: Disease Process

INTERVENTIONS Assess knowledge of signs and symptoms of specific diseases, risk factors in acquiring or transmitting disease, and potential complications.	RATIONALES Provides information about the disease causes, treatment and preventive measures.
Teach about type of culture and blood testing done for diagnosis of disease.	Provides information about need to identify specific organisms by culture of discharge from lesions, urethra, vagina, and cervix.
Teach to report pain, tingling, burning, dysuria, frequency, purulent discharge or leukorrhea, itching of genitalia.	Indicates active disease caused by lesion, inflammation.
Teach about treatment: antibiotics, analgesics, topical agents as ordered (specify); emphasize need to take full course of ordered antibiotic and follow-up exam for syphilis, gonorrhea, pelvic inflammation, chlamydial infection; (application of topical chemical agent and removing the drug by washing off in 4-6 hours to remove warts); (topical application of topical antiviral to treat herpes) (specify).	Provides treatment of choice for specific disease and instructions for administration (action of drug).
Inform that disease is contracted and transmitted by sexual contact and to	Prevents spread of the disease to others and recurrence in the

avoid sexual contact with an

infected partner and during active phase of the disease; instruct to use male or female condom protection if sexually active. Instruct in handwashing technique to be used following toileting and to avoid touching face with hands. Explain consequences of disease if left untreated or follow-up evaluation avoided. Reassure that information will be kept confidential according to state laws. Teach about causes of flare-ups of herpes and to avoid changes in environment extremes, tight clothing, colds, exposure to sun. Encourage to report the disease and inform contacts. Teach about the recommended use of spermicide-coated latex condoms. Reinforce that the best form of prevention is avoiding exposure (by sexual activity). Provide education to the adolescent that STDs are not contracted from toilet seats, drinking glasses or bath towels; also, that hormonal contraceptive methods do not provide

infected person.

Prevents transmission of infectious agents to genitalia or other body parts.

Prevents progression or complications of the disease; may lead to infertility or second stage syphilis.

Promotes environment conducive to instruction and that is nonjudgmental and accepting.

Prevents recurrence of herpes lesions that commonly occur with illnesses, trauma, or changes that may lower resistance.

Promotes control of disease by tracing and treating contacts as well as the infected person.

Usage helps prevent transmission of infections (action of spermicide).

This information may decrease incidence and reoccurrence of STDs in the adolescent.

Adolescents are often uninformed or lack accurate information regarding how STDs are contracted.

NIC: Teaching: Disease Process

protection against STDs.

Evaluation

(Date/time of evaluation of goal)

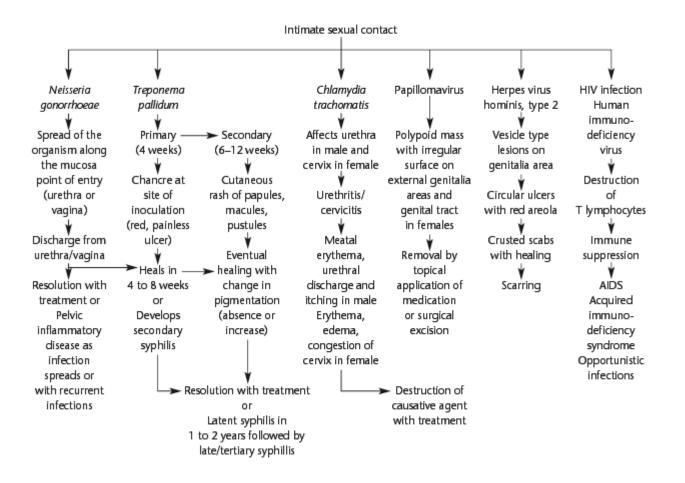
(Has goal been met? Not met? Partially met?)

(What did client say about the mode of transmission of STDs? What 2 methods to prevent STDs did the client identify?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR SEXUALLY TRANSMITTED DISEASES

SEXUALLY TRANSMITTED DISEASES



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CHAPTER 5.6 - CRYPTORCHIDISM

INTRODUCTION

Undescended testes (cryptorchidism) is a condition present at birth in which one or both testes fail to descend through the inguinal canal into the scrotal sac. The testes usually descend spontaneously by 1 year of age. If not, a child may receive human chorionic gonadotropin therapy or surgery (orchiopexy) performed between 1 to 2 years of age. Surgery prevents damage to the testes that may be affected by exposure to a higher temperature in the abdomen. Repair at a younger age also prevents the adverse effect on body image and embarrassment caused by the difference in the appearance of the empty smaller scrotal sac. Undescended testes that are associated with the presence of an inguinal hernia are repaired at the time of herniorrhaphy. Failure of the testes to descend can occur at any point along the normal path of descent into the scrotum. Symptoms of undescended testes rarely cause discomfort. The entire scrotum, or one side, will appear smaller than normal and may appear incompletely developed. Congenital inguinal hernias are frequently present with this defect.

MEDICAL CARE

DIAGNOSTIC EVALUATION

Retractile Testes: testes can be manually pushed back down (or milked) into the scrotum. True undescended testes cannot be manually pushed back down into the scrotum.

Cremasteric Reflex: (after 6 months of age and peaks by 4 to 5 years of age). Procedure: drawing up of the scrotum and testicle when the skin over the front and inside thigh is stimulated; will result in spontaneous retraction of testes back into the pelvic cavity.

Diagnostic Tests, may include: testicular ultrasonography, computed tomography, and laparoscopy. All can be performed to confirm undescended testes prior to surgical intervention and to rule out masses, tumors, or cysts.

MEDICAL MANAGEMENT

By 1 year of age, the undescended testes will spontaneously descend into the scrotum in 75% of cases.

Surgical Intervention (Orchiopexy): recommended for undescended testes repair before the child's second birthday.

Analgesics: postoperatively to control pain.

Antibiotics: to prevent infection at operative site.

Hormones: chorionic gonadotropin to enhance testicular descent in the absence of an anatomic impediment.

Complete Blood Count: reveals increased WBC if infection present.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factor of surgical incision.

Defining Characteristics: (Specify: disruption of skin surface, surgical invasion.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: threat to self-concept, change in health status of child, hospitalization and surgery of child.)

Defining Characteristics: (Specify: increased apprehension and expressed concern about future infertility and effect on body image, presence of empty scrotum and smaller size, expressed concern about impending surgery or need for future surgery and procedure performed to correct abnormality.)

Goal: Client will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize decreased anxiety about child's undescended testes.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

Assess source and level of anxiety and how it is manifested; need for information that will relieve anxiety.	Provides information about anxiety level and need for interventions to relieve it; source for the parents include fear and uncertainty about treatment and recovery; source for child include embarrassment by different shape and size of scrotum after school age.
Allow expression of concerns and opportunity to ask questions about diagnosis, procedures, effect of abnormal placement on testes and future fertility.	Provides opportunity to vent feelings and fears and secure information to reduce anxiety.
Communicate with parents (and child) and answer questions calmly and honestly; use pictures, models and drawings as aids where helpful in explanations.	Promotes calm and supportive trusting environment.
Give parents (and child) as much input in decisions about care and routines as possible.	Allows for more control over situation.
Provide as much privacy to the child as possible during assessments.	Promotes comfort and prevents embarrassment.

Inform parents that surgery is usually performed after the age of 1 but may be done during the preschool years by the age of 5 if testes have not spontaneously descended on their own. infertility.

Teach about procedure to the parents (and child).

(Reassure child that his penis will remain in place and that the surgery will not affect the penis in any way.)

Instruct parents and child in activity restrictions and play appropriate to age and trauma of surgery (as ordered, specify).

(Demonstrate and teach selfexamination of testes and allow for return demonstration; inform to report any change felt.)

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents report decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Inadequate primary defenses (broken skin).

Defining Characteristics: (Specify: surgical incision proximity to urine and feces.)

Provides information about need for

surgical correction before school

age to prevent psychological and cosmetic embarrassment to the

higher temperature in the abdomen

may damage testes and predispose

child and that exposure to the

Explains the surgical procedure to

Alleviates any fear that the penis

Provides information about return to

operative area or disconnect the

suture which may lead to testes again returning into inquinal

Allows for early detection of a

normal activity without injury to

to formation of tumor and

correct the deformity

(orchiopexy).

canal.

neoplasm.

may be cut off.

Goal: Client will not experience infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains <99° F.

 \checkmark Incision is clean and dry without redness, edema, drainage, or odor.

NOC: Risk Control

INTERVENTIONS	RATIONALES
Assess wound for redness, warmth, swelling, discharge or odor (specify frequency).	Indicates infection at site.
Apply ice to wound postoperatively as ordered.	Reduces swelling.
Carefully cleanse perineal area of any urine or stool as needed; teach parents.	Prevents contamination of wound and risk of infection.
Administer antibiotic therapy as ordered (specify).	Prevents or treats infection by preventing synthesis of cell wall of microorganisms.
Reinforce completion of course of antibiotic therapy.	Prevents recurrence of infection.
Teach child to wear clean undergarments or parents to change child's diaper frequently and not leave child in soiled diaper.	Maintains cleanliness of surgical area and prevents contamination.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

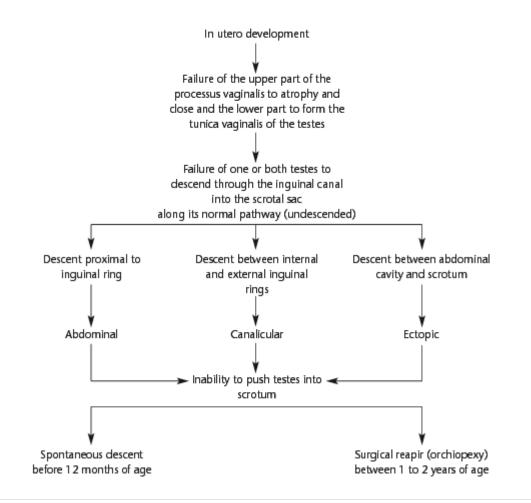
(Has goal been met? Not met? Partially met?)

(What is temperature? Describe wound assessment relative to outcome criteria.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CRYPTORCHIDISM

CRYPTORCHIDISM



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CHAPTER 5.7 - URINARY TRACT INFECTION

INTRODUCTION

Urinary tract infection (UTI) is defined as infection located in the lower tract (bladder or urethra) or in the upper tract (ureters or kidneys). The peak incidence of UTI observed in children occurs between 2 and 6 years of age, but can be observed at any age. The incidence of UTI in children also varies by gender: females have a 10% to 30% greater risk of developing a UTI; males have a 50% greater risk of developing a recurrent UTI; and during the newborn-age range only, male infants are at a greater risk of developing a UTI.

Etiologic factors associated with UTI in children include: 75% to 80% of bacterial infections are caused by Escherichia coli. Bacterial organisms occur more frequently than viral or fungal organisms which are more frequent in low-birth weight and preterm infants. The higher incidence in female children is attributed to the female child's anatomic differences from the male child (shorter urethra with an increased chance of contamination caused by the close proximity to the anus), other factors include: urinary stasis, poor hygiene practices, and external factors (i.e., Foley catheter, tight fitting diapers, exposure to bubble baths).

Diagnosis of UTI can be made by a urine culture from a clean-catch or a catheterized specimen. However, there is a high risk for contamination with clean-catch specimens. Lab result criteria for a UTI diagnosis: colony counts of 100,000 colonies in a clean-catch urine; and any urine culture greater than 5,000 colonies from urine obtained on a suprapubic puncture or catheterized specimen. Signs and symptoms of UTI in pediatric patients are age-related. For example, unique symptoms of UTI displayed by the infant: failure to thrive and fever; by the preschooler: anorexia and somnolence; by the school-ager: enuresis and personality changes; and those by the adolescent: fatigue and flank pain.

MEDICAL CARE

DIAGNOSTIC EVALUATION

Diagnosis Is Dependent Upon: age-related symptoms of UTI; an accurate and thorough history of UTI symptoms, patterns of voiding, health practices at home, recurrent treatment of UTI, physical growth and examination, and urine culture lab results.

Urine Culture and Sensitivity: the gold standard for the diagnosis of UTI, to determine the presence of bacteria in the urine and the drugs to which they are sensitive. UTI will have >100,000 colony formation units/ml (CFU/ml) in the first urine specimen in the morning. Evidence of a contaminated urine sample will reveal a report of fewer than 10,000 CFU/ml. Low colony formation may also occur because of very dilute or acidic urine, frequent voiding, chronic infection, or antibacterial therapy.

Urinalysis: may show elevated protein, leukocytes, casts, pus cells. The urinalysis may be normal, with a positive urine culture.

Radiographic Studies: (may be performed to identify any structural or functional renal abnormalities). These may include: renal ultrasound (RUS), voiding cystourethrogram (VCUG), intravenous pyelogram (IVP), and dimercaptosuccinic acid (DSMA).

Voiding Cystourethrogram (VCUG): reveals anatomic abnormality of bladder and urethra and reflux of urine into ureters which predisposes to recurrent infection.

Intravenous Pyelogram (IVP): reveals abnormalities in renal or bladder function caused by recurrent infections.

Renal Ultrasound (RUS): radiologic test to determine renal obstructions and structural abnormalities; renal size; renal calculit; and polycystic

kidney.

MEDICAL MANAGEMENT

Is directed at early diagnosis, elimination of infection, identification of causative factors to prevent infection and preservation of renal function.

Anti-infectives: dependent on identification of the microorganism and sensitivity to specific anti-infectives.

Urine Culture: reveals colonization of bacteria and identification of specific organism and sensitivity to antimicrobials.

Follow-up Management: urine cultures should be repeated monthly for 3 months, every 3 months for 6 months, and annually thereafter to ensure early detection of any recurrent symptoms. The relapse rate of UTI is high in children and tends to occur within 1-2 months after termination of antibiotic therapy.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Illness (urinary tract infections).

Defining Characteristics: (Specify: age-related symptoms of UTI in the pediatric patient, fever [temperature greater than 38.5° C], positive urine culture and sensitivity for bacteria in the urine.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Abnormal loss of fluids and deviations affecting intake of fluids.

Defining Characteristics: (Specify: fever and chills; vomiting and diarrhea; anorexia, abdominal pain; reluctance of child to drink fluids; attempts to hold urine for long periods; enuresis; urgency and dysuria with voiding.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: UTL.

Defining Characteristics: (Specify: lacks accurate information related to diagnosis; treatment of current UTI and prevention or recurrent UTI; age-related signs and symptoms of UTI; home management and follow-up needs.)

Goal: Client will obtain information about UTIs by (date and time to evaluate).

Outcome Criteria

 \checkmark Client verbalizes signs and symptoms of UTI and expected treatment regimen.

NOC: Knowledge: Disease Process

INTERVENTIONS

Assess parents' knowledge of agerelated signs and symptoms of UTI, associated anatomy effects related to UTI (girls vs. boys); assess history and past treatments for UTI, compliance of previous UTI management.

Teach parents about causes of the infection and predisposing factors; to be alert to dysuria, frequency, urgency, fever, foul odor to urine, cloudiness of urine, enuresis in the toilet trained child or flank pain, chills and fever, abdominal distention; and to report the presence of these signs and symptoms to physician.

Teach parents how to collect a midstream urine specimen for laboratory analysis before and after antibiotic therapy.

Teach parents (and child) in antibiotic therapy and to take full course of medication.

Teach parents and child to avoid bubble baths and tub baths and take showers; to wipe female from front to back and instruct child to do same after toileting.

- Instruct child to void frequently and increase daily fluids according to age (specify), include fluids that are acidic (citrus and cranberry juice).
- Teach parents and child to avoid wearing tight nonabsorbable undergarments.
- If diagnostic tests are to be performed, provide information about type of procedure, reason for procedure to be done, what to expect during procedure, after care following procedure.
- Instruct parents to obtain urine for analysis from the first morning void.

RATIONALES

- Provides information needed to develop plan of instruction to ensure compliance of medical regimen; UTI commonly occur in females and are prone to recurrent episodes; vesicoureteral reflux predisposes to UTI. Provides information that indicates
- lower or upper urinary tract infection.

- Reveals presence of infection and identifies organism responsible and if treatment is effective or needs changing.
- Provides information about medication therapy for effective resolution of infection and prevention of relapse.
- Provides information about prevention of recurrence of infection and irritation to the urethra.

Prevents retention and stasis of urine which predisposes to infection; fluids flush out bacteria and acidic fluids change pH of urine from alkaline to acid. Predisposes to harboring of bacteria, entry and ascending into urinary tract.

- Prepares child and parents for procedures to diagnosis anatomic abnormalities that may be the source of UTI.
- The first morning void is considered the most accurate for assessing growth of organisms; urine specimens will show a decline in

Teach parents to avoid giving the child caffeine beverages and carbonated beverages. Instruct sexually active adolescents to void immediately after sexual intercourse. colonization throughout the day from diuresis and frequent voiding. Caffeine and carbonated beverages may cause irritation to the bladder mucosa. This measure is associated with decreasing the risk of exposure to UTI; it may also help prevent recurrence of UTI; this measure will aid in flushing out bacteria.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

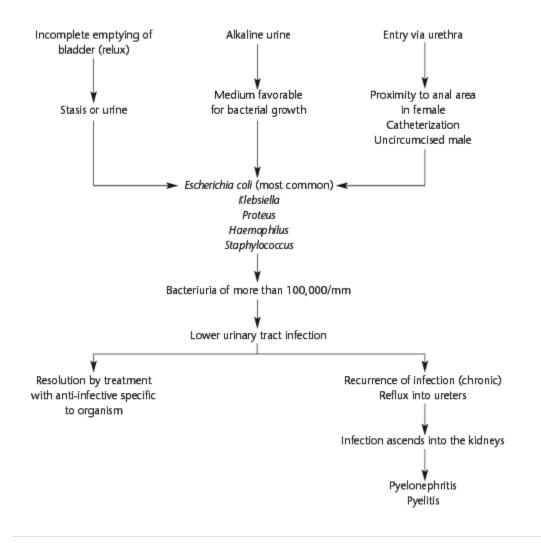
(Has goal been met? Not met? Partially met?)

(What did clients verbalize about the signs and symptoms and treatment of UTIs? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR URINARY TRACT INFECTION

URINARY TRACT INFECTION



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CHAPTER 5.8 - VESICOURETERAL REFLUX

INTRODUCTION

Vesicoureteral reflux is defined as a retrograde (or backflow) of urine into the ureters. The diagnosis for VUR rarely occurs after 5 years of age. The etiology of VUR is categorized into two types, primary and secondary reflux. Primary reflux is caused by an inadequate valvular mechanism at the ureterovesical junction and is not associated with any obstruction or neurogenic bladder. The inadequate valve in primary reflux is caused by the shortened submucosal tunnel that shortens bladder filling. Secondary reflux occurs secondary to obstruction (50% of cases in infants are caused by posterior urethral valves) or neurogenic bladder. Important risk factors associated with VUR include: age, urinary tract infection (UTI), and reflux.

The following effects of unrepaired reflux have been identified: urine concentration ability is inversely proportional to the grade of reflux; renal scarring; lower-weight percentiles (in physical growth); hypertension; proteinuria; and those with bilateral scarring and an increased risk of developing end stage renal failure (as high as 30%). In the majority of children, the problem will disappear spontaneously without surgical intervention if infection is controlled. Management of reflux includes antibacterial therapy for infection control.

MEDICAL CARE

DIAGNOSTIC EVALUATION

Ultrasound: to identify anatomic abnormalities and measure renal growth.

Voiding Cystourethrography (VCUG): visualizes bladder outline and urethra, reveals reflux of urine into ureters, and shows complications of bladder emptying.

Intravenous Pyelogram (IVP): provides information about the integrity of the kidneys, ureters and bladder. It is recommended after an abnormal ultrasound, especially if anatomy is poorly defined.

MEDICAL MANAGEMENT

Antibacterial Therapy: may be administered for short-term or long-term usage.

Ureteral Reimplantation Surgery: antireflux surgery, consists of reimplantation of ureters into the bladder.

Follow-up Evaluation: children with reflux should be evaluated at a clinic at 3-month intervals. VCUG: is recommended again, at 2 to 6 months postoperatively.

Analgesics: to control pain postoperatively.

Antispasmodics: flavoxate hydrochloride (Urispas), propantheline (Banlin), PO, belladonna and opium (BSO) suppository to relax smooth muscle of bladder and reduce discomfort caused by bladder irritation and spasms.

Urine Culture: reveals infectious agent and basis for antibacterial therapy or need for modification of therapy.

COMMON NURSING DIAGNOSES

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Loss of fluid through abnormal routes, deviations affecting intake of fluid.

Defining Characteristics: (Specify: NPO status pre and postoperatively, urinary catheter [Foley or suprapubic], dry skin and mucous membranes, poor skin turgor, decreased urinary output via catheter or stents, temperature elevation.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Surgical incision.

Defining Characteristics: (Specify: disruption of skin surface, catheter site irritation and discomfort.)

See HYPERTHERMIA

Related to: Illness.

Defining Characteristics: (Specify: increase in body temperature above normal range, evidence of infection at surgical or catheter site, or renal/urinary infection.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of exposure to information about disorder.

Defining Characteristics: (Specify: expressed need for information about continuous medical regimen to control renal/bladder infection and measures to prevent infection.)

Goal: Clients will obtain information about child's illness and treatment by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding of illness and treatment regimen.

NOC: Knowledge: Disease Process

INTERVENTIONS

Assess parents' and child's understanding of vesicoureteral condition without repeating reflux. Provide necessary information and allow time for questions. Use

RATIONALES

Provides basic understanding of the information the clients already know.

<pre>teaching aids as needed (specify). Instruct parents and child in antibacterial administration including information on action, dose, form, time, frequency, how to take, side effects to report (specify).</pre>	Promotes understanding of the medication regimen for long-term therapy to prevent recurrent or relapse of urinary infection.
Teach parents and child to develop strategies for administration of medications including the development of an organized plan using pill dispensers, alarms on a clock or watch, check-off list, reminder notes to prevent omissions (specify).	Empowers the parents and child to take control of medication administration on a long-term basis.
Teach parents and child of need to obtain urine cultures by midstream and taking to a laboratory or use of dip-slide or strip to use at home (specify).	Reveals presence of urinary infection and assists to regulate antibacterial therapy.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did clients verbalize about the illness and treatment regimen? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Change in health status, change in environment (hospitalization for surgery).

Defining Characteristics: (Specify: expressed apprehension and concern about surgery [ureteral reimplantation] and pre and postoperative procedures and care.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize decreased anxiety.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

- Assess source and level of anxiety and need for information and interventions that will relieve it.
- Allow expression of concerns and time to ask questions about need of surgery, procedure to be done, procedures to prepare for surgery, procedures, care and recovery after surgery.

Answer questions calmly and honestly, use pictures, drawings, models and therapeutic play.

- Encourage parents to stay with child and assist in care.
- Allow as much input into decisions about care and usual routines as possible by parents.
- Orient and introduce child to the surgical unit preoperatively.
- Teach parents and child about abnormal functioning ureter and reason for surgical repair, that the ureter will be reimplanted to prevent urine from backing up in the ureter and continuing problems with infections.
- Teach about and prepare for preoperative procedures and tests necessary for visualization and diagnosis (specify).

Teach parents and child that catheter and/or stent will be in place and where they will be placed, that they will be irrigated and receive special care, that urine output will be noted and measured for any abnormalities or complications, that a surgical dressing will be in place to protect the incision, and, in case of young child, restraints may be in place on arms and legs, and that medications will be given to control pain.

Reassure parents and child that surgery and catheters will not Provides information about anxiety level and need to relieve it; source for parent includes the procedure and care of child pre and postoperatively; source for child includes separation from parents, unfamiliar environment, and painful procedures. Provides opportunity to vent feelings and fears and to feel

- feelings and fears and to feel secure in the environment.
- Promotes trust and a calm and supportive environment.

Allows parents to care for and support child and continue parental role and increases child's comfort by having a familiar caretaker. Allows for more control over

Allows for more control over situations and maintains a familiar routine for care. Reduces anxiety caused by fear of the unknown.

- Provides information that will enhance understanding about surgery to reduce anxiety.
- Allays anxiety and provides accurate information of what to expect.

Provides information of what to expect following surgery.

Provides information that may cause anxiety.

affect sterility or sexual orientation.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients report decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Surgery.

Defining Characteristics: (Specify: communication of pain descriptors, crying, irritability, restlessness, withdrawal, flank pain, ureteral edema from surgery, bladder spasms.)

Goal: Client will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Client rates pain as less than (specify for child, indicate which pain scale is used).

NOC: Comfort Level

INTERVENTIONS Assess verbal and nonverbal behavior, type and location and severity of pain depending on age (specify pain scale and frequency).	RATIONALES Provides information about pain as a basis for analgesic therapy.
Administer analgesic based on pain assessment and before pain becomes severe (specify).	Reduces pain and promotes rest to reduce stimuli and restlessness (action of drug).
Place in a comfortable position; avoid unnecessary movement or manipulation of suprapubic catheter.	Promotes comfort and decreases bladder spasms that cause pain.
Administer antispasmodic as ordered (specify).	Reduces bladder spasms caused by irritation of suprapubic catheter.
Maintain catheter patency by	Reduces pain caused by

ensuring placement, checking flow and presence of kinks or obstruction (specify when).	distention as a result of catheter clogging or displacement.
Provide distractions and reassurance	Reduces anxiety which tends to
when spasms occur and stay with	increase pain.
child when they occur to inform	
the child that the pain is	
temporary.	
Inform parents and child that pain	Provides knowledge about
will subside 24 to 48 hours	duration of pain and causes
following surgery and teach	of pain.
measures taken to control pain.	

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: (Specify: urinary tract infection [acute, chronic or postoperative]; invasive postoperative drainage tubes (i.e., Silastic stents, urethral Foley or suprapubic tube].)

Defining Characteristics: (Specify: redness, abnormal drainage, and/or swelling at incision site; UTI symptoms [burning on voiding, cloudy and foul-smelling urine]; positive urine or wound culture; temperature elevation [38.5° C or higher].)

Goal: Client will not experience an infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Surgical incision remains clean and dry without redness, edema, odor, or drainage.

NOC: Risk Control

INTERVENTIONS	RATIONALES
Assess wound for redness, swelling,	Indicates presence of infectious
purulent drainage on dressing,	process or poor healing.
healing. Assess catheter site for redness, edema, irritation; urine collected in drainage system for cloudiness	Indicates infectious process at catheter site or in urinary bladder.

and foul odor. Collect urine for culture and sensitivities.
Administer antibacterial as ordered (specify).
Encourage increased fluid intake daily depending on age requirements when PO fluids are allowed (specify). Use sterile technique when changing droggings giving gatheter gare or
dressings, giving catheter care or emptying drainage bag.
Maintain catheter and collection bag

Reveals presence of urinary infection and sensitivity to specific antibacterial agent. Treats specific microorganism or prevents infection when catheter

Promotes dilution of urine to

urinary tract by the introduction of pathogens. Prevents backflow of urine into

prevent infection and encourage voiding after catheter is

Prevents contamination of wound or

bladder or retention of urine which predisposes to infection.

Promotes comfort and prevents

infection at suprapubic or

Promotes comfort and allows for

caring for and maintaining

catheter patency to prevent

infection if child is to be

discharged with catheter in

Allows for early intervention if

infection is present.

Provides information and skill in

is in place.

meatal site.

place.

wound assessment.

removed.

Maintain catheter and collection bag below level of bladder and maintain a closed, patent system free of kinks or obstructions.

Provide suprapubic catheter care by cleansing with peroxide solution after removing any meatal crusting, catheter care by washing perineum with mild soap and water, rinsing and applying antiseptic ointment.

Change dressings when soiled or wet 24 hours after surgery.

Instruct and demonstrate catheter care, irrigation, emptying of drainage system using sterile technique and allow for return demonstration.

Inform parents of signs and symptoms of infection to report.

NIC: Infection Control

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe incision)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: catheter displacement; internal factor of complications of surgical trauma.)

Defining Characteristics: (Specify: catheter obstruction, postoperative bleeding catheter dislodgement, bladder distention, reduced urine output, dysuria, frequency, retention following removal of catheter.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Urine is clear without blood or clots.

 \checkmark Bladder is not distended.

 \checkmark Client able to urinate after catheter is removed.

NOC: Risk Control

INTERVENTIONS

Assess output via catheter and note characteristics of urine, passage of blood clots, color of urine and return to clear color; and if clots or return to red color occurs after a period of normal characteristics. Notify physician immediately if red color returns.

Immobilize arms and legs with
 restraints, remove periodically;
 use bed cradle following surgery.
Secure catheter to abdomen or leg
 with tape stents to catheter and
 avoid placing tension on the
 catheter when in place by gently

holding it when performing care. If catheter becomes displaced, notify physician for replacement (have a suprapubic catheter on hand at all times).

Measure I&O q h for an output of 1 ml/kg/hr and notify physician if less.

Note first voiding after catheter removed, time of voiding and amount, difficulty, presence of abdominal distention.

Support during first voiding (warm water over perineum, sitting or standing position) and privacy. Encourage increase in fluid intake

RATIONALES

Provides	ir	nfor	mation	abo	but
possibl	Le	con	nplicat	ion	of
bleedir	ıg	or	obstruc	ctio	on.

Allows for immediate interventions to treat hemorrhage. Prevents accidental dislodgement or removal of catheter. Prevents movement or manipulation of catheter that may cause displacement.

Ensures continued drainage of urine.

Provides information to ensure
 adequate output via
 catheters.
Provides information about
 return of urinary pattern,
 presence of retention.

Prevents embarrassment and promotes voiding.

Promotes voiding.

according to age requirements. Inform parents and child that physician should be notified if urinary pattern or characteristics change or if unable to void after catheter is removed.	Allows for early interventions if needed.
Teach parents about measures taken to ensure that catheters remain in place and patent (use of restraints, anchoring catheters, irrigations) and that this is a temporary situation.	Informs parents of need for measures to prevent displacement of catheter.
Teach child to void frequently after catheter removal.	Prevents stasis of urine leading to urinary infection.

NIC: Surveillance

Evaluation

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(Date/time of evaluation of goal)
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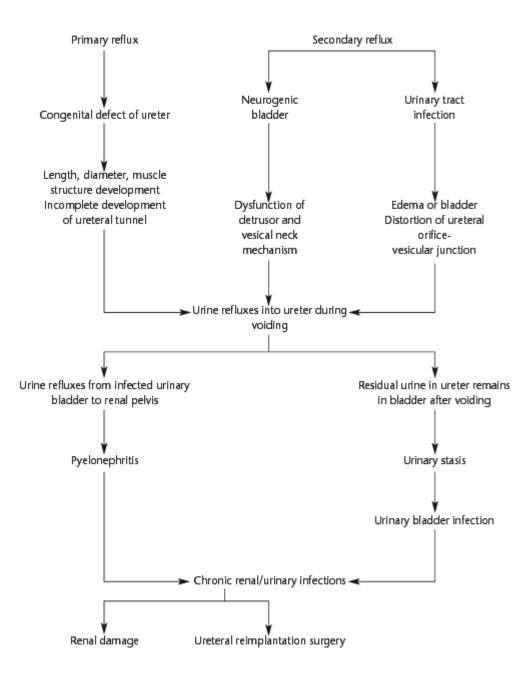
(Has goal been met? Not met? Partially met?)

(Describe urine. Is ladder distended?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR VESICOURETERAL REFLUX

VESICOURETERAL REFLUX



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CHAPTER 5.9 - WILMS' TUMOR

INTRODUCTION

Wilms' tumor (or nephroblastoma) is identified as the most common pediatric malignant renal tumor in children. Incidence of Wilms' tumor is slightly less frequent in boys than in girls. The average age at diagnosis with unilateral tumors is 41.5 months and with bilateral tumors is 29.5 months. Children with Wilms' tumor may have associated anomalies and chromosomal abnormalities, such as: aniridia (congenital absence of the iris); hypospadias; cryptorchidism; Beckwith-Wiedemann syndrome; Denys-Drash syndrome; Perlman and Sotos' syndrome. The appearance of the Wilms' tumor is usually referred to as the "pushing type" (or adjacent renal parenchyma, enclosed by a distinct intrarenal pseudocapsule).

The most frequent initial clinical presentation for most children with Wilms' tumor is abdominal swelling or the presence of an abdominal mass. This initial presentation is usually first noticed by a parent while bathing or dressing the child. Other frequent findings at diagnosis include: abdominal pain, gross hematuria, fever, and hypertension.

The most common sites of metastases of Wilms' tumor are the lungs, the regional lymph nodes, and the liver. Histology classifies the tumor into: (1) favorable or unfavorable histology; (2) 3 cell types: triphasic or biphasic; with blastemal, stromal, and epithelial elements; and (3) 10% have anaplastic or unfavorable histologic findings, including anaplastic Wilms' tumor, clear cell sarcoma of the kidney, rhabdoid tumor of the kidney. Other histologic patterns include: nephrogenic rests, congenital mesoblastic nephroma, and renal cell carcinoma. An unfavorable histology is associated with a poor prognosis and more extensive chemotherapy. Prognosis is determined by the pathologic staging of Wilms' tumor, defined by the National Wilms' Tumor Study Group. Both the histology classification and the pathologic staging of Wilms' tumor determine the type and length of time for administration of chemotherapy agents and radiation treatments.

MEDICAL CARE

Diagnostic Evaluation: complete peripheral blood count (including a differential white blood cell count platelet count); liver function test (SGOT, SGPT, bilirubin); urinalysis, renal functions tests (BUN, creatinine) and serum calcium determination. Elevated serum calcium is associated with a rhabdoid tumor of the kidney or congenital mesoblastic nephroma.

Abdominal Ultrasound Examination: can distinguish whether the abdominal mass is intrarenal or extrarenal; unilateral or bilateral; unifocal or multifocal; or solid or cystic.

Contrast-Enhanced Computed Tomography of the Abdomen: to evaluate the nature and extent of the mass; and whether the tumor has extended into adjacent structures such as the liver, spleen, or colon.

Supine X-ray Film of the Abdomen: is necessary for planning and review of radiation therapy.

Real-Time Ultrasonography: determines the patency of the inferior vena cava vessel (when the tumor is identified within this vessel, the proximal extent of the thrombus must be established before the operation).

Chest X-ray and Chest CT scan: to determine whether pulmonary metastases are present (are only performed if an unfavorable histology of the tumor is identified).

Radionuclide Bone Scan and X-ray Skeletal Survey: should be performed on all postoperative children with clear cell sarcoma of the kidney, presence of pulmonary or hepatic metastases.

Brain Imaging: should be obtained on all children with clear cell sarcoma of the kidney or with rhabdoid tumor of the kidney; both of these tumors are associated with intracranial metastases.

Bone Marrow Aspiration and Biopsy: usually not performed as bone marrow involvement is rare.

THERAPEUTIC MANAGEMENT

Chemotherapy and Radiation Therapy Protocol: Favorable Histology: vincristine and actinomycin-D (no radiation).

Unfavorable Histology: vincristine, actinomycin-D, cyclophosphamide, with radiation.

Renal Angiogram: reveals renal function and extent of involvement.

Scans of Kidney, Liver, Bone: reveals involvement of these organs if metastasis is present.

Inferior Venacavagram: reveals involvement adjacent to the vena cava if the tumor has grown to a large size.

Erythrocyte Sedimentation Rate (ESR): reveals increases as serum protein levels change.

Albumin: reveals decreases with renal involvement.

Enzymes: reveals increases in alanine aminotransferase (ALT), aspartate aminotransferase (AST), lactic dehydrogenase (LDH) with liver involvement; alkaline phosphatase (ALP) with bone involvement.

Complete Blood Count: reveals increases in RBC as tumor excretes more erythropoietin.

Urinalysis: reveals characteristics that indicate change in renal function caused by tumor, uric acid, erythropoietin increases.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: inability to ingest and digest food, side effects from therapy.)

Defining Characteristics: (Specify: anorexia, nausea and vomiting from chemotherapy, obstruction postoperatively from chemotherapy causing adynamic ileus stomatitis [rare], abdominal cramping.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: altered intake, excessive losses through normal routes, nausea and vomiting caused by chemotherapy and radiation therapy.)

Defining Characteristics: (Specify: diarrhea, vomiting from radiation.)

See DIARRHEA

Related to: Side effects.

Defining Characteristics: (Specify: increased frequency of bowel sounds and loose, liquid stools.)

See CONSTIPATION

Related to: (Specify: gastrointestinal obstructive lesions postoperatively, side effects.)

Defining Characteristics: (Specify: adynamicileus, decreased bowel sounds, abdominal distention, frequency less than usual pattern.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: side effects and radiation therapy; secondary effects of chronic diarrhea.)

Defining Characteristics: (Specify: erythema or hyperpigmentation of previously irradiated skin; local phlebitis; transverse ridging of nails; redness and excoriation of perianal area from chronic diarrhea.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: change in health status, threat of death, threat to self-concept.)

Defining Characteristics: (Specify: increased apprehension and fear of diagnosis, expressed concern and worry about preoperative procedures and preparation, postoperative care and effects of therapy, possible metastasis of disease.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize decreased anxiety.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

Assess source and level of anxiety and need for information and support that will relieve it. Provides information about degree of anxiety and need for interventions and support; sources for parents may be guilt and uncertainty about surgery, treatments and recovery, possible loss of child; sources for the child may be the multiple procedures of diagnosis and surgery and the effects of postoperative treatments. Allow expression of concerns and

inquiries about disease and

possible consequences of surgery and prognosis. Encourage parents to stay with the child or open visitation, provide a telephone number to call for information about condition of child. Provide continuing nurse assignment with the same personnel; encourage parents to participate in care. Orient child to the surgical and ICU unit, equipment, noises and staff. Teach parents and child about the disease process, surgical procedure, what to expect with procedures done preoperatively, and what will be experienced postoperatively including radiation and chemotherapy and its benefits and effects (alopecia, stomatitis, nausea, vomiting, diarrhea are possible but temporary). Explain all procedures and care in simple, direct, honest terms and repeat as often as necessary; reinforce physician information if needed and provide specific information as needed. Teach parents and child the extent of surgery with the removal of a kidney and the staging process; discuss their understanding of the pathology report postoperatively and clarify information as needed.

Utilize therapeutic play, drawings, models for instruction of child.

Provide parents and child with information about community agencies and support groups.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

Provides opportunity to vent feelings, secure information needed to reduce anxiety. Promotes care and support of child by parents. Promotes trust and comfort and familiarity with staff giving care. Reduces anxiety caused by fear of unknown. Promotes knowledge and understanding of pre and postoperative treatments and effect on disease and selfimage. Prevents overwhelming child and parents with information in small amount of time as diagnosis and procedures usually carried out within a short period of time and anxiety will prevent ability to comprehend. Reduces anxiety when knowledge and support is given and child and parents will not feel betrayed by inadequate preparation of procedures and treatments.

Provides aids to assist child to understand what will be experienced and to express their feelings. Provides emotional support by those who have experiences with the effects of the disease. (Did parents report decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: side effects, complications.)

Defining Characteristics: Intestinal obstruction; edema; adhesion formation; stomatitis.

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark BP remains within (specify range for child).

 \checkmark Tumor capsule remains intact.

 \checkmark Surgical incision remains clean and dry without redness, edema, odor, or drainage.

NOC: Risk Control

INTERVENTIONS

RATIONALES Provides information about vital

- Assess blood pressure for increases pre and postoperatively q 2h, changes in pulse and respirations.
- Avoid any palpation of abdominal mass; post sign on bed stating not to palpate preoperatively. Assess bowel activity postoperatively
- for elimination pattern, bowel sounds, bowel distention.
- Assess incision site for redness, swelling, drainage, intactness, and healing and change dressing when soiled or wet; assess oral and perineal area.
- Assess urinary output for presence of cloudy, foul-smelling urine; collect specimen for culture analysis and report any change in renal function (hypertension,
- signs caused by renal function abnormality preoperatively or by nephrectomy postoperatively, postoperative atelectasis. Prevents trauma to tumor site and possible metastasis by dissemination of cancer cells. Provides information about possible adynamic ileus from chemotherapy causing bowel obstruction. Indicates infectious process resulting from invasive procedure or inflammation resulting from immunosuppressive therapy for stomatitis or skin breakdown or inflammation; provides oral care and anal care after elimination; provides postoperative pulmonary care.
- Indicates possible renal impairment and/or urinary bladder infection; renal involvement alters renin excretion which increases BP and immunosuppressive therapy leads to

behavior changes). Maintain reverse isolation if leukopenia present or according to agency dictate. Assess and document frequency of bowel movements; document a description of all bowel movements; measure abdominal girth. Give stool softeners (as prescribed). Teach parents and child about all assessments and procedures and

headache irritability, weight gain,

reason for isolation precautions. Teach parents to avoid exposing child to infectious agents; limit

visitors.

Advise parents to dress child appropriate to weather conditions and to avoid rough activities or sports.

Instruct parents and child in mouth care (rinsing and swabbing with solutions, cleansing and drying after bowel elimination).

Teach parents and child to report any Allows for immediate attention to changes in urinary pattern or characteristics or renal function promptly.

infection.

Prevents transmission of infective agents to the immunosuppressed child. To assess potential intestinal

obstruction from vincristineinduced adynamic ileus.

To prevent straining with bowel movements. Promotes understanding and cooperation.

Prevents exposure to possible pathogens in the immunosuppressed child.

Prevents respiratory infections associated with exposure or trauma to the abdominal site preoperatively and surgical site postoperatively.

Prevents or treats skin and mucous membrane damage as a result of therapy.

any genitourinary problems in remaining kidney.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is BP? Is tumor capsule intact? Describe postoperative incision.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED ORAL MUCOUS MEMBRANE

Related to: Chemotherapy.

Defining Characteristics: (Specify: stomatitis, oral ulcers, hyperemia, oral pain or discomfort, oral plaque.)

Goal: Child will be free of oral mucous membrane irritation by (date and time to evaluate).

Outcome Criteria

 \checkmark No oral mucous membrane lesions present.

NOC: Oral Health

INTERVENTIONS

RATIONALES

INTERVENTIONS	
Assess oral cavity for pain ulcers, lesions, gingivitis, mucositis or stomatitis and effect on ability to ingest food and fluids (specify frequency).	Provides information about effect of chemotherapy.
Administer medication (specify) before meals and offer bland, smooth foods that are not hot or spicy.	Permits eating with more comfort.
Administer an antiseptic mouth rinse 30 minutes before any food or fluid intake as ordered (specify).	Promotes comfort of oral mucosa and maintains integrity (action of drug).
Provide oral hygiene (30 minutes before or after meals): mouth- washes (specify); instruct patient not to eat or drink for 30 minutes after oral hygiene is completed.	To prevent oral mucositis.
Use soft-sponge toothbrush or sponge toothette or gauze to provide mouth rinse.	To avoid oral trauma.
Administer local anesthetics to oral area as ordered; administer these before meals.	May be effective in temporary pain relief from oral lesions; permits eating with decreased oral pain.
Avoid oral temperatures. Avoid use of lemon glycerin swabs to oral lesions.	To avoid oral trauma. Lemon may increase irritation to oral lesions.
Offer moist, soft, bland foods.	To minimize irritation to oral ulcers; it may also be better tolerated by the child.
Avoid foods which are hot, spicy, or which include ascorbic acid.	To minimize irritation to oral ulcers; these foods may increase pain and irritation to oral areas.
Teach parents about effect of chemotherapy on oral mucosa and in treatments to decrease discomfort in oral cavity.	Promotes understanding of side effects that occur and temporary nature of the side effects.
Teach parents in mouth care.	Promotes effective care of oral cavity to relieve discomfort

and prevent mucosa breakdown and increased inflammation.

NIC: Oral Health Maintenance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does child have any oral mucous membrane lesions?)

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE PROTECTION

Related to: (Specify: drug therapy [antineoplastics]: abnormal blood profile [leukopenia, thrombocytopenia, anemia, coagulation]; treatments [radiation].)

Defining Characteristics: (Specify: altered clotting, bone marrow suppression, deficient immunity against infection, petechiae, bleeding from nose, gums, hematuria [25% of cases will display preoperatively], hemorrhagic cystitis [a common side effect of cyclophosphamide].)

Goal: Child will be protected from illness or injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Child does not experience bleeding.

 \checkmark Temperature remains <100° F.

NOC: Infection Status

INTERVENTIONS

Assess for bleeding from any site, WBC, platelet count, Hct, absolute neutrophil, count and febrile episodes (specify when).

Administer blood transfusion as ordered for severe blood loss, monitor patency, vital signs, chills, fever, urticaria, rash, dyspnea, diaphoresis, headache throughout transfusion, and terminate if any of these changes occur.

RATIONALES

Provides information about frank bleeding or blood profile abnormalities that predispose to bleeding caused by bone marrow suppression and immunosuppression resulting from chemotherapy. Replaces blood loss when symptoms of anemia appear (dizziness, pallor, fatigue, increased pulse and respirations) or when Hct is less than 20% or platelet count less than 20,000/cu mm.

<pre>giving care, use mask and gown when appropriate, provide a private room, monitor for any signs and symptoms of infection. Teach parents and child to avoid rough play or sports, straining at defecation, blowing nose hard. Caution parents and child to avoid persons with upper respiratory infection or any illness. Instruct parents to report any fever, behavior changes, headache, dizziness, fatigue, pallor, slow oozing of blood from any area, exposure to communicable diseases. Teach and allow for return demonstration of urine and stool testing for blood using dipstick and</pre> to a construct of a c	Pad sides of bed, avoid trauma with use of hard toothbrush or dental floss, apply pressure for 5 minutes after IV administration, discontinue taking rectal temperatures or performing unnecessary invasive procedures.	Prevents b during o which a clotting
play or sports, straining at defecation, blowing nose hard.bleeding defecation, changes, headache, dizziness, fatigue, pallor, slow oozing of blood from any area, exposure to communicable diseases.bleeding prevents highly infection or any illness.Instruct parents to report any fever, dizziness, fatigue, pallor, slow oozing of blood from any area, exposure to communicable diseases.Indentifie gastro:	giving care, use mask and gown when appropriate, provide a private room, monitor for any signs and symptoms	Prevents t to a cor during o absolute than 1,0
persons with upper respiratoryhighlyinfection or any illness.Instruct parents to report any fever,IndicatesInstruct parents to report any fever,Indicatesbehavior changes, headache,with aldizziness, fatigue, pallor, slowoozing of blood from any area,exposure to communicable diseases.IdentifieTeach and allow for returnIdentifiedemonstration of urine and stoolgastroittesting for blood using dipstick andIdentifie	play or sports, straining at	Prevents t bleeding
behavior changes, headache, with al dizziness, fatigue, pallor, slow oozing of blood from any area, exposure to communicable diseases. Teach and allow for return Identifie demonstration of urine and stool gastros testing for blood using dipstick and	persons with upper respiratory	Prevents 1 highly s
Teach and allow for returnIdentifiedemonstration of urine and stoolgastro:testing for blood using dipstick and	behavior changes, headache, dizziness, fatigue, pallor, slow oozing of blood from any area,	Indicates with abr
	Teach and allow for return demonstration of urine and stool	Identifies gastroin

Prevents bleeding caused by trauma during chemotherapy administration which alters platelets and clotting factor.

Prevents transmission of pathogens to a compromised immune system during chemotherapy if the absolute neutrophil count is less than 1,000/cu mm. Prevents trauma that causes bleeding.

Prevents risk for infection in the highly susceptible child.

Indicates a complication associated with abnormal blood profile.

Identifies presence of bleeding in gastrointestinal or urinary tract.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

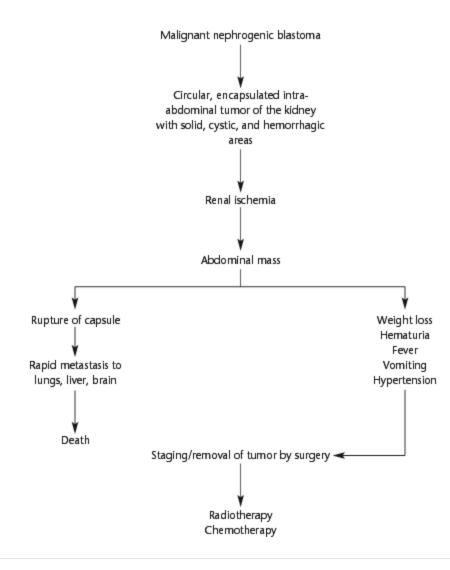
(Has goal been met? Not met? Partially met?)

(Are there any indications of bleeding? What is child's temperature?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR WILMS' TUMOR

WILM'S TUMOR



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UNIT 6 - MUSCULOSKELETAL SYSTEM

CHAPTER 6.0 - MUSCULOSKELETAL SYSTEM: BASIC CARE PLAN

INTRODUCTION

The musculoskeletal system includes components that are needed for the supportive and protective framework of the body. The system functions to provide the movement that is essential for interacting and adapting to the child's environment and is especially vulnerable to forces in the environment. The system includes bones which compose the skeletal system, muscles which compose the muscular system, joints which compose the articular system, tendons, and ligaments. Tendons and ligaments with muscle attach to the surfaces of bones and the combination of all of the components allows for ambulation, personal care, and play. The problems encountered in these systems are classified as traumatic (most common) and long-term disability (degenerative disease). Any problem or abnormality that affects this system commonly affects the function of one or more other organ systems. The functional disruption that occurs as a result of a musculoskeletal problem that requires immobilization leads to physical and emotional alterations in a child who is usually active and curious. With growth and development of the system structures and gross and fine motor development, the child progressively functions within adult parameters for movements and activities of daily living.

MUSCULOSKELETAL GROWTH AND DEVELOPMENT

BONE, MUSCLE, JOINT, TENDON, LIGAMENT STRUCTURE

• The spine in the newborn is rounded or has a convex curvature with the lumbar curve developed by 12 to 18 months of age; cervical spine is concave; thoracic spine is convex; and lumbar spine is concave after 18 months of age with the double S curve developed in the older child.

• Muscles are completely formed at birth with size increasing by hypertrophy and strength increasing with muscular functions of walking, climbing, running, and jumping which is well established by 3 years of age.

• Muscle development and bone growth continue to mature with skeletal lengthening and muscle strengthening increases throughout childhood.

- Bone ossification is continuous with 25 new ossification centers appearing during the second year and bones continue to ossify until maturity is reached.
- Bone growth occurs in the epiphysis at the end of long bones until it closes, at which time growth ceases.
- Height and rate of skeletal growth increases at a slower rate with age with the toddler increasing 3 to 5 inches/year.
- Feet of the infant and toddler appear flat and an arch develops with walking.
- Height averages vary with age and sex.

		Boys		Girls	
6	mo	26 ³ /4	in	26 in	
1	yr	30 in		29 ¹ /4	in
2	yr	34 ¹ /4	in	34 ¹ /4	in

3 yr	37 ¹ /4	in	37 in
4 yr	$40^{1}/_{2}$	in	40 in
6 yr	45 ³ / ₄	in	45 in
8 yr	50 in		49 $^3/_4$ in
10 yr	$54^{-1}/_{4}$	in	54 $^1/_2$ in
12 yr	59 in		$59^{3}/4$ in

MUSCULOSKELETAL FUNCTION

• Development of gross and fine motor function and muscle strength and refinement continue in the preschool and school-age child.

• From the beginning of walking through toddler stage, legs are usually bowlegged until back and leg muscles develop and wide stance and waddle or toddling gait is apparent until 2 to $2^{1}/_{2}$ years of age; by school-age the legs become closer together and walking and posture is sturdy and balanced.

• Bones in the child resist pressure and muscle pull less than the adult, so injury by trauma is common.

• Bones heal faster in children as the bones are still in the process of ossification and growth.

NURSING DIAGNOSES

IMPAIRED PHYSICAL MOBILITY

Related to: (Specify: intolerance to activity; decreased strength and endurance.)

Defining Characteristics: (Specify: inability to purposefully move within physical environment, including bed mobility, transfer and ambulation, limited range of motion, decreased muscle strength, control and/or mass, fatigue, bed rest.)

Related to: Pain and discomfort.

Defining Characteristics: (Specify: reluctance to attempt movement, limited range of movement, painful and/or swollen joints, fracture, surgical procedure, infectious process.)

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: inability to purposefully move within physical environment, including bed mobility, transfer and ambulation, decreased muscle strength, control and/or mass, impaired coordination, paralysis [paraplegia or quadraplegia], progressive deterioration, inadequate gross and fine motor skills, diminished musculoskeletal responses.)

Related to: Musculoskeletal impairment.

Defining Characteristics: (Specify: inability to purposefully move within physical environment, including bed mobility, transfer and ambulation, reluctance to attempt movement, limited range of motion, decreased muscle strength, control and/or mass, imposed restrictions of movement

including mechanical [cast, traction, splint, brace, or bed rest], contractures, fracture, joint disease and destruction inflammation, congenital disorders.)

Goal: Client will gain improved physical mobility by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify, e.g., child will move self in bed with traction bar; walk the length of the hallway and back twice a day; etc.)

NOC: Mobility Level

INTERVENTIONS

RATIONALES

joint mobility, pain, stiffness, swelling; ability to move and activity level in performing ADL (specify when). Assess bed rest status, activity restrictions, imposed immobility by braces, casts, traction, splints. Assess sensory (diminished sensation and numbness) and motor (gait and balance) function of extremities; presence of paralysis, fracture, surgical correction of musculoskeletal abnormalities. Assess physical effects of immobilization on body systems; constipation, skin breakdown, urinary retention, hypercalcemia, loss of muscle strength, contractures, circulatory stasis, stasis of pulmonary secretions, anorexia, renal calculi, decreased metabolism and energy, loss of nerve innervation.

Assess muscle tone, strength, mass;

Assess psychologic effect of immobilization; reduced body image, inability to reduce stress, loss of stimuli, loss of independence and mastery, anxiety, regressive behavior, anger and aggression, passive and submissive behavior, crying, irritability, temper tantrums.

Avoid restriction in activities unless ordered; encourage and allow for as much movement as possible in performing daily activities; administer analgesic before activity.

Provides information about musculoskeletal condition and function. Maintains rest during acute stages to promote healing and restoration of health. Provides information about conditions or treatments that affect mobility. Prevents complications of immobility by monitoring and intervening when needed; mobility provides important contributions to development and physical health. Provides information about behavior and deprivation resulting from immobilization that prevents children from dealing with feelings and expression of anxiety and tensions. Promotes mobility and activity synonymous with health and life;

allows for autonomy and control

for normal development.

Encourage all age-appropriate activities that facilitate mobility, allow infant to crawl (specify).

Provide quiet play and progress in ambulation by scheduling dangling at bedside, standing with support, ambulation with support with increases daily and praise for all attempts regardless of progress.

Transport/transfer infant/child by Hoyer lift, stroller, wheelchair, bed outside of room/hospital.

Provide and apply brace, splint; use of aids including wheelchair, crutches, supportive reading, eating, and other aids for ADL as needed (specify).

Maintain body alignment on bed rest, reposition q 2h or as needed; use a drawing for child to follow for position and where to lie in bed. Coordinate rest with periods of mobility.

Perform muscle strengthening exercises, passive stretching exercises, joint mobilizing exercises if ordered or as appropriate (specify).

Apply special shoes, splint or appliance for day or night use (specify).

Prepare for physical and/or occupational therapy during recuperative period as ordered (specify how).

Inform parents and child of hazards of immobility (specify).

Teach parents and child to use devices
 or aids for mobility and ADL
 (specify).
Teach parents to provide clear

pathways, remove rugs, make environmental modifications as needed.

Teach parents and child about activities for large muscle strengthening (tricycle, swimming, running, skipping rope), and small Promotes mobility according to limitations of illness and provides outlet for frustration of imposed immobility. Maintains large and small muscle strength as condition permits.

Provides stimulation by interacting in a different environment in absence of mobility. Promotes independence and support in mobility and activities.

Prevents contractures and physical deformity and preserves joint function.

Prevents fatigue and conserves energy. Preserves muscle strength or prepares for use of crutches or other mobility aids.

Maintains position at night and prevents deformity and allows for locomotion by increasing gait efficiency during day use. Promotes and maintains optimal function and mobility of child.

Promotes compliance with program to maintain mobility and understanding of effects of immobility. Promotes safe use of aids and apparatus and increased security.

Provides safe environment for mobility.

Promotes strengthening of muscles as condition improvement.

muscle strength-ening (games, puzzles, crayons, coloring books).	
Encourage child with progress in ambulation and ADL.	Provides child with a goal to strive for and achieve.
Teach parents and child ROM, strengthening exercises as appropriate.	Maintains muscle and joint function.
Reinforce parents and child of importance of therapy and follow-up care, short- or long-term depending on need.	Promotes compliance with prescribed therapy especially if needed to ensure mobility or health maintenance in chronic disorders.

NIC: Activity Therapy

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What has been child's activity level? How does it compare with the outcome criteria?)

(Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 6.1 - FRACTURES

INTRODUCTION

A fracture is a break in a bone which is usually caused by a fall or injury. Fractures are common in children because of their activity and continual changes and growth in gross motor function. Injury of this type in an infant or very small child is often the result of physical abuse. The most common type of fracture in children under 3 years of age is the greenstick which is an incomplete fracture and results in a compression of one side causing it to bend and the other side to fail. A bend fracture is the result of the bone bending and straightening on its own because of the flexibility of the bone at a young age. A buckle fracture is raised bulging of the bone resulting from compression of the bone near its most porous part. A complete fracture is a division in the bone with or without attachment of a periosteal hinge remaining. The most common sites of fractures in children are the femur, humerus, clavicle, ulna, radius, tibia, and fibula. Treatment includes reduction (open or closed), and immobilization by casting and/or traction depending on the type and severity of the fracture. Healing is faster in the child and takes place within 3 to 4 weeks. Remodeling is usually completed within 9 months depending on the type and site on the fracture, amount of fragmentation, and the age of the child.

MEDICAL CARE

Analgesics: for pain control depending on severity.

Bone X-ray: reveals trauma site, separation of the epiphysis in older child.

Enzymes: reveals increases in alkaline phosphatase (ALP), lactic dehydrogenase (LDH), creatine phosphokinase (CPK), aspartate aminotransferase (AST) with bone, and muscle damage.

Complete Blood Count (CBC): reveals increased WBC and neutrophils if infection present, decreased RBC, Hct, Hgb with destruction of RBC caused by muscle, bone and soft tissue injury.

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Pain and discomfort, musculoskeletal impairment (fracture).

Defining Characteristics: (Specify: intolerance to activity, decreased strength and endurance, inability to purposefully move within physical environment including bed mobility, transfer and ambulation, reluctance to attempt movement, imposed restrictions of movement including mechanical medical protocol [cast, traction], inability to participate in activities and socializing.)

See INEFFECTIVE TISSUE PERFUSION, PERIPHERAL

Related to: Interruption in arterial and venous flow.

Defining Characteristics: (Specify: cold, pallor or blue color of extremity, decreased peripheral pulse, cast tightness.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: external factor of physical immobilization, pressure of cast, traction apparatus, presence of surgical incision from open reduction; internal factors of altered circulation and sensation.)

Defining Characteristics: (Specify: disruption of skin surface, invasion of bony structures, redness, irritation of skin at cast edges or pressure areas, numbness or tingling of casted extremities.)

See CONSTIPATION

Related to: Inadequate physical activity or immobility.

Defining Characteristics: (Specify: frequency less than usual, hard formed stool, decreased bowel sounds, straining at defecation.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Physical injuring agents (bone fracture); surgery to realign fracture.

Defining Characteristics: Communication of pain descriptors, guarding and protective behavior to injured part, crying, irritability, restlessness, swelling of part, muscle spasms.

Goal: Child will experience less pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Child rates pain as less than (specify desired level and pain scale used).

NOC: Pain Level

INTERVENTIONS

RATIONALES

Assess site for pain including type, severity, and duration using a pain scale if appropriate; pain as a result of surgical open reduction	Provides information about pain as a basis for analgesic and muscle relaxant therapy.
(specify frequency).	
Administer analgesic, muscle	Reduces pain and promotes rest
relaxant, or both as ordered and	following injury or surgery (action of drug).
note response (specify drug, dose, etc.).	(action of drug).
Apply ice to fracture if ordered. vasoconstriction.	Treats pain and edema by
Apply splint or Jones dressing (cotton wrapping over area covered by an Ace bandage).	Relieves pain and prevents further damage by protecting and immobilizing limb.
Elevate limb above heart level,	Promotes venous return to
maintain alignment of limb when	relieve edema which causes

positioning.

Support limb above and below injured area when moving and positioning; use smooth movements and avoid abrupt movement of limb. Teach parents and child about pain medications and expected results and importance of reporting pain before it becomes too severe.

Show parents and child ways to move and position limb, maintaining immobilization of extremity, and to avoid weight-bearing exercise until advised by physician.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: sensory dysfunction, tissue hypoxia, altered mobility resulting from cast application.)

pain and prevents contractures.

movement of limb.

movement.

healing.

Prevents pain caused by

Provides information about

expected effects of analgesic

therapy during acute stages of

pain and as pain subsides with

Prevents undue pain caused by

Defining Characteristics: (Specify: change in color, temperature, edema, movement of fingers/toes; tingling or numbness of fingers/toes; drainage or musty odor from under cast; skin irritation at cast edges; moist, wet, or broken cast, foreign objects inserted between cast and skin.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Affected area (specify remains pink and warm).

 \checkmark Child reports sensation and is able to move affected area (specify).

NOC: Risk Detection

INTERVENTIONS Assess pulses in casted upper or **RATIONALES** Provides information about the

lower extremity, swelling,

coolness, inability to move digits, pallor or cyanosis, numbness of areas distal to the cast g 2h. Allow cast to dry thoroughly using a fan, turning q 2h, support on pillows and use palm of hands to lift or handle cast exposing as much of the cast to the air as possible. Do not use a heated fan or dryer. Elevate casted part on pillow until completely dry and when at rest for a few days. Provide quiet play for a few days and exercise muscle and joints above and below. Remove small articles or food that may be put into the cast. Clean plaster cast with vinegar and water; fiberglass casts are cleaned with mild soap and water. Petal cast if rough edges are present; massage skin near cast edges and note any reddened or abrasive areas. Outline area of drainage on cast with pen; and include date and time. Provide muscle strengthening exercises, ROM of unaffected parts, isometric exercises appropriate. Teach parents and child about type of cast, type of fracture and how it heals. Reinforce to parents and child to restrict activities according to physician advice, to avoid placing articles, such as a coat hanger for scratching, into the cast. Teach parents and child to avoid allowing limb to hang down and maintain elevation of the limb when sitting and support limb with a sling when standing; avoid standing for prolonged periods of time.

neurovascular status of an extremity following cast application as swelling continues causing the cast to become tight and compromise circulation; a bivalved cast treats excessive edema to prevent tissue damage. Prevents indentations in the cast that may cause pressure areas, allows cast to dry from inside out for 1/2 hour or more depending on substance used for cast and type of cast. Heat causes the cast to dry on the outside but stay wet underneath, or may cause burns from heat conduction through the cast. Promotes venous return to reduce swelling. Maintains muscle and joint function. Prevents pressure to injury and infection if skin is broken under the cast. Maintains cleanliness of the cast. Protects skin from irritation and breakdown. Monitors increases in drainage under the cast. Prepares for crutch walking if appropriate and maintains joint and muscle mobility. Provides information about injury and type of immobilization to

allow for healing process. Prevents damage to the cast and skin that may lead to infection or impair the desired effect of the cast.

Maintains return venous flow and prevents fatigue from heavy cast.

Instruct parents to note and report any pain, swelling, musty odor from cast; changes in neurovascular status in casted extremity, tightness or looseness of cast.	Indicates presence of infection or neurovascular compromise that may require a cast change.
Teach parents to massage skin at cast edges, avoid use of lotions and powder in these areas, and pad cast edges if needed.	Toughens skin to prevent breakdown and prevents infection by providing media for bacterial growth.
<pre>Instruct child in use of crutches or application of sling (specify). Teach parents and child about length of cast presence, need for physical therapy if appropriate, and method</pre>	Allows for mobility and participation in activities. Permits planning for continuing care if appropriate.

NIC: Surveillance

or plastic).

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

of maintaining clean cast (plaster

(Describe color, temperature, sensation, and movement of affected area. What does child say?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: sensory dysfunction, altered mobility resulting from skin or skeletal traction.)

Defining Characteristics: (Specify: redness, swelling, pain at pin site, change in neurovascular status of extremity, malfunction of traction apparatus, ineffective traction, contractures or weakness of joint and muscles.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Traction is maintained.

 \checkmark Child remains in correct body alignment. (Pin sites are not red or swollen.)

NOC: Risk Control

INTERVENTIONSRATIONALESAssess type and purpose of traction,Provides information about use of

extremity or body part involved
(specify).

Assess functioning part of the traction apparatus including correct weight amount and hanging, ropes in tract with secure knots, pulleys in original site with movable wheels, position of frames, splints.

Assess skin color, pulses, numbness, or changes in movement of body part; weakness or contractures of uninvolved muscles and joints: neurochecks q 2 to 4h.

Assess pressure points noting any redness or breakdown and reposition if possible; massage uninjured skin areas.

Maintain bed position as ordered with head or foot elevated.

Maintain correct body alignment especially in hips, legs, arms, and shoulders; realign after the child has moved or changed position.

Perform ROM to unaffected joints, apply foot plate if appropriate.

Maintain nonadhesive straps or bandages used; do not remove or change unless permitted while someone maintains traction; note tightness or looseness that may cause ineffective traction.

Cleanse and dress pin site daily; apply antiseptic ointment if ordered; check skin for infection at site; examine screws within metal clamp for proper attach-ment of clamp to traction; do not remove traction.

Assist child to perform ADL activities independently as much as possible; facilitate self-care with traction to realign bone ends, provide immobilization of a part, reduce muscle spasms, correct a deformity, provide rest for an extremity; traction may be manual as in cast application, skin in which the pull is attached to the skin with bandages or straps, or skeletal in which the pull is attached to a pin, wire, or tongs inserted into the bone at a distal position to the fracture. Provides information needed to ensure correct traction applied to body part.

Indicates neurovascular changes
 resulting from traction; muscular
 changes resulting from
 immobilization.

Prevents prolonged pressure on skin that results in breakdown and decreased blood flow to area.

Provides desired amount of pull and countertraction. Promotes comfort and prevents deformity.

Prevents contractures and foot drop. Supplies attachment for pull in skin traction.

Supplies attachment for pull in skeletal traction and treats pin site to prevent infection.

Promotes independence in self-care within limitations of age and immobilization.

assistive aids.	
Suggest activities such as hobbies, TV, reading, games while in traction.	Allows for movement without disturbing traction.
Provide diversionary activities and encourage visits from family and friends, move bed to area of activity with peers.	Provides and promotes social interactions.
Teach parents and child as appropriate for age about reason for traction and length of time traction must be in place.	Provides information to assist with coping with immobility.
Teach child of amount and type of movement allowed while in traction.	Ensures that amount of activity is not exceeded and will not affect traction.
Reassure parents that traction will assist in the healing of fracture.	Promotes positive response to treatment.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

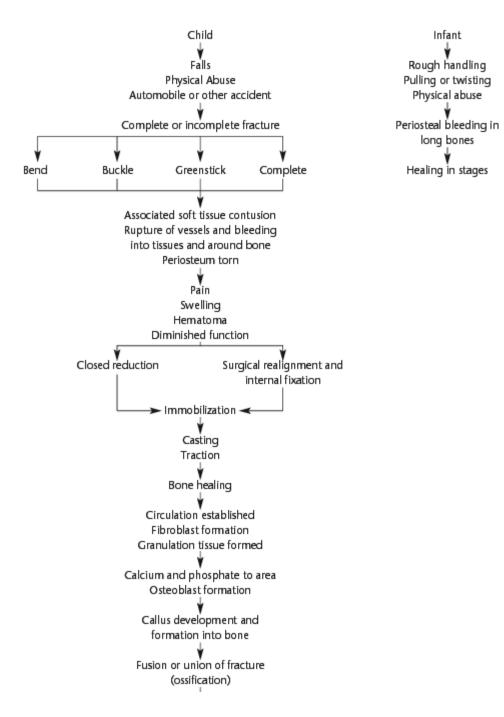
(Has goal been met? Not met? Partially met?)

(Has traction been maintained? Describe child's body alignment. Describe pin assessment.)

(Revision to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR FRACTURES

FRACTURES



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CHAPTER 6.2 - CONGENITAL HIP DYSPLASIA

INTRODUCTION

Congenital hip dysplasia is related to abnormal hip development. The abnormalities include hip instability, preluxation (shallow acetabulum), subluxation (incomplete dislocation of the hip), and dislocation (femoral head not in contact with the acetabulum). It usually involves one hip, but may involve both. It occurs 6 times more often in females than males. It is usually identified in the newborn period and responds to treatment best if initiated before 2 months of age. Therefore, it is important to examine every infant from birth to 12 months of age. Treatment is dependent on the age of the child and the degree of abnormality, and ranges from application of a reduction device, to traction and casting, to surgical open reduction. Casting and splinting with correction is usually impossible after 6 years of age.

MEDICAL CARE

Pelvic X-ray: reveals outward femoral displacement with upward slope of the roof of the acetabulum in infant/child over 4 months of age.

Ultrasound: reveals cartilaginous head displacement in infant under 1 to 4 months of age.

Ortolani Test: a maneuver abducting the infant's leg that, in the event of hip dysplasia, causes the femoral head to enter the acetabulum and is identified by a click as this occurs.

Barlow's Test: a maneuver adducting the infant's leg that, in the event of hip dysplasia, causes the femoral head to exit the acetabulum and is palpable by the examiner.

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Musculoskeletal impairment (hip defect).

Defining Characteristics: (Specify: imposed restriction of movement by harness, cast, traction, or splint; inability to purposefully move within physical environment including bed mobility; ambulation.

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: External factor of physical immobilization; internal factor of altered circulation; sensation by pressure of device, cast, traction.

Defining Characteristics: Edema, tight appliance or cast, change in skin color and temperature proximal to spica cast or device or pin site, skin irritation at pin site or cast edges, numbness proximal to cast.

See CONSTIPATION

Related to: Musculoskeletal impairment, inadequate physical activity or immobility.

Defining Characteristics: Frequency less than usual, hard formed stool, decreased bowel sounds, straining at defecation.

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of physical disability (immobilization).

Defining Characteristics: Environmental and stimulation deficiencies, inability to perform self-care activities appropriate for age, isolation with long-term immobilization.

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: (Specify: untreated or improper treatment for dislocation.)

Defining Characteristics: (Specify: late onset dislocation, absence of early recognition and intervention for correction, muscle contracture, muscle shortening, femoral and acetabulum deformity, tight spica cast, inappropriate traction or malfunctioning traction.)

Goal: Infant will not experience injury by (date and time to evaluate).

Outcome Criteria

 $\sqrt{($ Specify outcome criteria based on treatment mode, e.g., traction is maintained; Pavlik harness is applied properly; skin is free of irritation in spica cast.)

NOC: Risk Detection

INTERVENTIONS

- Assess infant up to 2 months of age for frank breech birth, cesarean birth, hip joint laxity or dislocation (Ortolani or Barlow test), degree of dysplasia or dislocation, shortened limb on the affected side (telescoping), broadened perineum, asymmetry of thigh and gluteal folds with increased number of folds and flattened buttocks.
- Assess child's shortened leg affected with telescoping; palpation of femur when thigh is extended and pushed toward the head and pulled in distal direction; delayed walking and a limp that causes lurching toward affected side; downward tilt of pelvis toward unaffected side if weight-bearing on affected side when standing (Trendelenberg sign); lordosis and

RATIONALES

- Provides information about the presence and degree of dysplasia; may be preluxation, subluxation, or dislocation (luxation) and involve a laxity of the capsule or an abnormal acetabulum; identification of the presence of the deformity at this age results in the highest success rate in complete correction. Provides information about the presence
- of deformity in one or both hips in the older infant or toddler and preschool age group; usually identified when the child begins to walk or stand, and limb is shortened and adductor and flexor muscle contracture has occurred; requires closed reduction (traction and cast) or open reduction (surgery, cast

waddling gait if both hips affected.

- (Apply Pavlik harness splinting device to infant up to 6 months of age to be worn continuously for 3 to 6 months to ensure hip stability; apply double or triple diapers or Frejka pillow if this is treatment ordered.) deformity.
- (Maintain skin traction in presence of abduction contracture in the infant up to 6 months of age and spica cast if applied following the traction; maintain skin traction for gradual reduction of the hip adductor and flexor muscles with a spica cast application for immobilization in child 6 to 10 months of age.)
- (Provide traction care including correct alignment of extremity, correct amount of weights, free hang of weights, correctly functioning pulleys with secure knots, neurologic and circulatory checks q 4h for color, warmth, sensation.)
- (Provide spica cast care including support of cast when moving, removing crumbs and small articles that may get into cast, petal cast edges, avoiding insertion of anything into cast to scratch, clean cast when needed, allow to dry completely, protect cast from soiling and dampness from elimination or bathing; neurologic and circulatory checks q 4h for color, peripheral pulse, warmth, capillary refill, sensation; nausea and vomiting resulting from cast syndrome.)
- (Provide diaper change frequently and as needed; use disposable diapers or plastic protection over diaper.)
- (Teach parents about type and degree of deformity and cause and treatment plan for correc- tion and prognosis by reinforcing physician information; inform of proposed operative reduction in older child or if obstruction of joint development by soft tissue is present in the young child.)
- (Teach parents to apply splint or harness correctly over the diaper and shirt, use disposable diapers or waterproof undergarment to protect appliance; on removal of harness for bathing if

splint) to correct.

- Maintains abducted, reduced position for maintaining the femur in the acetabulum; other methods to correct unstable hip may be used to stretch legs and maintain abducted position depending on degree of
- Promotes hip abduction until stable; applies with a spica cast if unable to maintain stable reduction of the hip for 3 to 6 months; removal of the spica cast is followed by an abduction brace for protection.
- Maintains safe, effective traction to affected hip(s) with child's response to traction monitored.
- Maintains safe, effective immobilization to ensure permanent stability of hip with child's response to cast monitored for cast syndrome caused by tight spica cast compressing the superior mesenteric artery of the duodenum.

Maintains clean harness brace, or cast.

Provides information about abnormality, its classification, medical and/or surgical regimen that is determined by age and severity of the deformity.

Promotes and maintains reduction of hip to correct deformity.

allowed or sponge bathing child with harness in place, padding shoulder straps, changing position q 2h; to avoid adjusting the harness.)

(Teach parents about traction care including reason and purpose for traction, amount of movement that the child is allowed, performing neurovascular assessment and what to report, correct weight for amount and hanging with pulleys and knots if present, maintaining body alignment.)

(Teach parents in spica cast care including reason and purpose; support of the cast during movement; maintaining clean, dry cast and protecting it from stool and urine with waterproof tape or plastic cover; padding cast edges; avoid lifting by crossbar; disallowing small objects or crumbs to enter cast; cast signatures without leaving white space between writing; instruct in diapering or bedpan/toilet use; use of a diaper tucked into the perineal opening on cast; feeding infant in supine position [head elevated propped with pillows or while being held in upright position on lap or in a car seat]; inform parents that specially made car seats for infants with casts/harness are available and must be used if the child rides in a car; refer to social worker if cost prevents access to the seats.) Refer parents to crippled children or other community agencies available.

Ensures correct traction for gradual reduction of the hip and/or preoperative if surgery anticipated.

Ensures correct cast care for immobilization of hip following reduction of the hip; traction or surgical correction may be used for reduction or reconstruction of the acetabulum.

Provides information and support services to the child and family.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data related to outcome criteria, e.g., Has traction been maintained? Is Pavlik harness correctly applied? Describe skin around spica cast.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED SOCIAL INTERACTION

Related to: Limited physical mobility.

Defining Characteristics: (Specify: change in pattern of interaction, lengthy treatment and immobilization, boredom, inability to engage in usual activities for age group, environment that lacks diversion.)

Goal: Infant will experience adequate social interaction by (date and time to evaluate).

Outcome Criteria

 \checkmark Parent stays with infant and provides social interaction.

 \checkmark Infant responds positively to parental interaction.

 \checkmark Infant is included in family activities.

NOC: Social Involvement

INTERVENTIONS

RATIONALES

stimulation.

Provides environmental

stimulation and social

Assess infant's social interaction with parents.

Provide age appropriate toys to be used in bed while in a prone or sitting position depending on type of treatment and degree of immobilization.

Provide exposure to other children by moving bed near areas of activity or near a window; wheel on a stretcher, wheelchair, or stroller; allow to walk with cast or brace if permitted.

Encourage family and friends to visit or stay with child. boredom.

Place toys and other articles within reach.

Teach parents to include infant/ child in family activities.

Assist parents with devices available or methods of converting aids used for mobility to fill needs of child with a cast or appliance.

Encourage parents to allow as much independence if self-care by child as possible. interaction; promotes social interaction with others during long-term treatment and reduces boredom. Promotes social interaction with others during long-term treatment and reduces Provides access to diversion activities when needed. Promotes feeling of acceptance and well-being as part of the family. Promotes exposure to a variety of activities and changes of environmental stimuli.

Provides information about infant

Promotes social and developmental

during long-term treatment.

activities and reduces boredom

Promotes independence and allows some control over the situation.

NIC: Socialization Enhancement

Evaluation

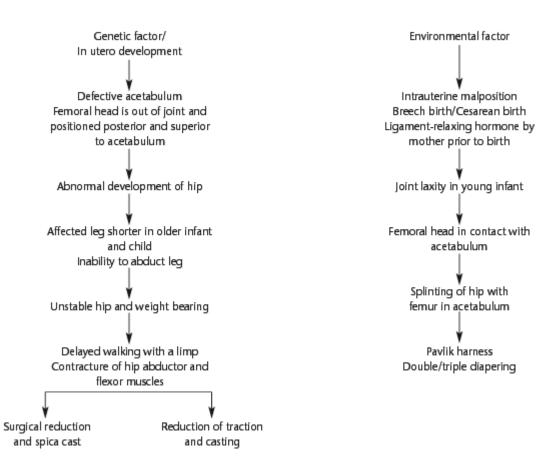
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Do parents provide social interaction for infant? Does infant respond positively? Is infant included in family activities?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CONGENITAL HIP DYSPLASIA



HIP DYSPLASIA

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CHAPTER 6.3 - LUPUS ERYTHEMATOSUS

INTRODUCTION

Lupus erythematosus is a chronic systemic inflammatory disease of the collagen or supporting tissues and affects any organ in the body. It is classified into a transient type affecting neonates and a type with an onset after infancy that is the same as systemic lupus erythematosus affecting adults. The disease is characterized by remissions and exacerbations and may appear in children as young as 6 years of age but is most commonly seen in those 10 years of age and older. Disease manifestations include lesions or rash on face, neck, trunk and extremities; pleurisy; pericarditis; kidney failure; arthritis; anemia; gastrointestinal abnormalities; and enlarged lymph nodes. Prognosis is dependent on the response to the medical regimen and prevention of exacerbations and severe complications of the renal system.

MEDICAL CARE

Anti-inflammatories (Nonsteroidal): aspirin given to relieve joint pain by decreasing inflammation.

Anti-inflammatories (Steroidal): prednisone given to relieve severe manifestations of the disease; oral dose is tapered to lowest effective amount to control symptoms.

Immunosuppressants: azathioprine (Imuran) given in combination with an anti-inflammatory to reduce amount of steroids.

Antimalarials: hydroxychloroquine sulfate, chloroquine given as second line therapy to relieve symptoms caused by skin, joint, and renal complications and to reduce amounts of steroids needed.

Antibiotics: given specific to identified microorganisms and sensitivity to tested antibiotics.

Anticonvulsants: phenytoin given to control or prevent seizure activity if central nervous system affected.

Antihypertensives: given with a diuretic to lower blood pressure if needed.

Diuretics: given to promote diuresis and elimination of sodium by preventing reabsorption if renal function affected or if blood pressure elevated.

Electrocardiogram: reveals changes and arrhythmias if cardiac output decreased.

Blood Urea Nitrogen (BUN): reveals increases in impaired renal function.

Creatinine: reveals increases in impaired renal function.

Complete Blood Count: reveals increased WBC in presence of infection, decreased Hgb, and platelet and RBC decreases.

Urinalysis: reveals protein, RBC with renal impairment.

Guaiac Test: reveals occult blood in stool.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: altered pigmentation, circulation, immunologic.)

Defining Characteristics: (Specify: disruption in skin surface; scaly erythematmous blush or patchy area over nose and cheeks in the shape of a butterfly; sensitivity to cold in hands and feet with or without cyanosis; dry, cracked skin; alopecia.)

See IMPAIRED PHYSICAL MOBILITY

Related to: (Specify: intolerance to activity, decreased strength and endurance, pain and discomfort.)

Defining Characteristics: (Specify: generalized weakness; joint swelling, stiffness, and pain; limited range of motion; generalized aching; arthralgia; fatigue.)

See HYPERTHERMIA

Related to: Inflammation.

Defining Characteristics: (Specify: increase in body temperature above normal range, low grade elevation.)

See DISTURBED THOUGHT PROCESSES

Related to: Physiologic changes.

Defining Characteristics: (Specify: forgetfulness, changes in consciousness, excitability, seizures, psychosis, irritability, nystagmus, diplopia, disorientation.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Renal failure.

Defining Characteristics: (Specify: increased urine output, altered intake, weight loss or gain, edema, dry skin and mucous membranes, thirst, hypotension, increased pulse rate, proteinuria.)

See DECREASED CARDIAC OUTPUT

Related to: (Specify: alteration in preload, electrical factor of altered conduction.)

Defining Characteristics: (Specify: variations in hemodynamic readings, arrhythmias, ECG changes, cyanosis, skin and mucous membrane pallor, decreased peripheral pulses, rales, dyspnea, orthopnea, restlessness.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest, digest, and absorb nutrients.

Defining Characteristics: Anorexia, nausea, vomiting, diarrhea, abdominal discomfort.

ADDITIONAL NURSING DIAGNOSES

DISTURBED BODY IMAGE

Related to: Biophysical and psychosocial factors.

Defining Characteristics: (Specify: verbal and nonverbal responses to change in body appearance [alopecia, skin rashes, steroid side effects], negative feelings about body, multiple stressors and change in daily living limitations and social relationships.)

Goal: Child will gain improved body image by (date and time to evaluate).

Outcome Criteria

 \checkmark Child verbalizes positive feelings about self.

 \checkmark Participates in social gatherings.

NOC: Body Image

INTERVENTIONS

RATIONALES

Assess child for feelings about multiple restrictions in lifestyle, chronic illness, difficulty in school and social situations, inability to keep up with peers and participate in activities.	Provides information about status of self-concept and body image that require special attention.
Encourage expression of feelings and concerns and support communications with parents, teachers, and peers. Avoid negative comments and stress positive activities and accomplishments.	Provides opportunity to vent feelings and reduce negative feelings about changes in appearance. Enhances body image and confidence.
Note withdrawal behavior and signs of depression.	Reveals responses to body image changes and possible poor adjustment to changes.
Note hair loss, skin rashes or changes, weight gain and shift in body fat distribution, hirsutism, edema and effect on child. Show support and acceptance of changes in appearance of child; provide privacy as needed.	Reveals side effects of steroid therapy and disease manifestations that affect body image. Promotes trust and demonstrates respect for child.

for child.	Ŀ
Suggest use of wig, scarf, makeup, clothing selection as indicated. hirsutism.	S
Encourage parents to be flexible in care of child and to integrate care and routines so child may	I
participate in peer activity. Assist parents and child to deal with peer and school perceptions of appearance and to tell others about change in appearance.	I

Encourages acceptance of the child with special needs (long-term steroid therapy and side effects, risk for infection and bleeding tendency, lifelong activity restrictions). Supports child during body image changes involving skin, hair, edema, weight gain, Promotes well-being of child and sense of belonging and control of life events.

Prevents stigmatization of child by those who are not apprised of the child's disease; attitudes of others will affect child's body image.

NIC: Socialization Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did child say about self? Use quotes. Does child participate in social gatherings? Specify.)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Inflammatory process.

Defining Characteristics: (Specify: communication of pain descriptors, joint pain, achiness, joint swelling and stiffness.)

Goal: Child will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ Child rates pain as less than (specify expected level and pain scale used).

NOC: Pain Level

INTERVENTIONS RATIONALES Assess severity of joint pain, location, duration, remissions,

Provides information symptomatic of the effect of the disease on

and exacerbations and what the musculoskeletal system; allows for analgesic selection precipitates pain such as weight gain, activity; affect on and better management of mobility and participation in activity involvement. ADL; presence of joint deformity. Administer analgesic (specify) and (Action of drugs.) anti-inflammatories (specify) and assess effect of medications in relieving pain. Apply warm compresses or packs to Promotes circulation to the area painful areas. by vasodilation to relieve pain. Provide 1 to 2 rest periods during Decreases stimulation that day and quiet environment for increases pain, and promotes sleep. rest. Encourage to assume position of Promotes comfort and rest for comfort. joints to reduce pain. Provide toys, TV, books, games, for Promotes diversionary activity to quiet play during painful detract from pain. episodes. Explain cause of pain to child and Provides reasons for treatments measures that should be taken to and medications. relieve pain (specify). Inform child of factors that Promotes opportunity to avoid exacerbate pain episodes and to those situations or activities that contribute to pain and to express or report presence of pain at the onset. provide for immediate relief.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about chronic illness.

Defining Characteristics: (Specify: request for information about disease and the special needs associated with the disease; prevention of exacerbation and complications of the disease; risk of noncompliance with multiple preventive precautions.)

Goal: Clients will gain knowledge about lupus erythematosus by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize how lupus affect each body system.

 \checkmark Clients identify 3 ways to avoid exacerbations of the condition.

 \checkmark Clients verbalize understanding of treatment regimen.

NOC: Knowledge: Disease Process

INTERVENTIONS

Assess knowledge of disease, type of treatments, effect on all systems, and medical regimen.

Teach parents and child about the disease process, effect on connective tissue and all systems, and treatment regimen needed to maintain remission.

Teach parents and child about the administration and side effects of anti-inflammatories and immunosuppressant drugs (specify), not to decrease or skip the dose if side effects appear, and the need to adjust dosage during stressful situations.

Teach parents and child about activity restrictions or moderate activities allowed and to weigh one activity against another as appropriate for the child.

Teach child to avoid sun exposure directly, through clouds, or reflected from water or snow; to use special sun screen or brimmed or visored hat to protect face.

Teach clients about child's need to take naps and have 8 hours of sleep/ night; avoid fatigue or stressful situations; avoid medica-tions such as sulfonamides, tetracyclines, anticonvulsants, and others that cause an exacerbation.

Teach parents and child to report bruising, petechiae, elevated temperature, blood in urine or stool, increased irritability, vomiting, inability or remission in taking medications, respiratory or urinary

RATIONALES

Provides information needed to understand this complex disease and adjust long-term treatment and restrictions.
Provides information about known facts related to the disease to enhance knowledge of potential for exacerbations that may lead to early death.
Promotes understanding of long-term medication regimen even when affected by undesirable side effects; an abrupt withdrawal of the medication may cause a serious physiologic complication.

Prevents exacerbation of the symptoms while considering the long-term difficulty the child faces when activities are restricted. Prevents skin eruptions/reactions common to this disease when exposed to the sun.

Prevents exacerbations of the disease symptoms.

Provides for early interventions if complications occur.

changes. Refer to community agencies or American Lupus Society for contact and support. Provides information and support for families and children to assist in adjusting to the disease and its lifelong limitation.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did clients verbalize about lupus? What 3 ways to avoid problems did clients identify? What did clients verbalize about treatment regimen? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE COPING

Related to: (Specify: multiple life changes, personal vulnerability.)

Defining Characteristics: (Specify: alteration in social participation, inappropriate use of defense mechanisms [denial, regression, projection], withdrawal, intolerance of new experiences, lifelong hardships of medical regimen and limitations.)

Goal: Child will cope effectively with illness by (date and time to evaluate).

Outcome Criteria

 \checkmark Child expresses feelings about chronic illness.

 \checkmark Child identifies 3 effective coping mechanisms to use.

NOC: Coping

INTERVENTIONS

RATIONALES

Assess coping behaviors of child and Provides information about child's factors that induce use of defense coping mechanisms and pattern mechanisms, response to stressful and use of coping strategies. situations (avoidance behavior, cooperation or resistance, aggression, regression, delaying tactics, inappropriate humor). Allow child to express feeling and Promotes independence and control provide outlet for release of over a situation. feeling in an accepting environment.

Provide therapeutic play including throwing ball or balloons, pounding board, hand painting, water play. Involve child in care decisions and encourage independence in as much	Provides expression of feelings and outlet to release aggression. Promotes active participation in care with assistance as needed.
of the care as possible. Assist child to identify at least 3 coping mechanisms to use during play, social interactions, painful procedures, restrictions, and bed rest.	Allows for experiences which gives the child an opportunity to practice successful coping behaviors that enhance development of one's self- esteem.
Encourage parents to participate in child's care and support.	Increases feelings of security when the child must deal with new situations.
Assist child to identify behaviors that are positive and negative and discuss the factors that influence coping pattern (age, development, past experiences, ability to adapt, support, perception of what is happening, inner resources).	Promotes understanding of coping pattern and reasons for behavior.
Teach child about any procedures well before scheduling and that support will be given to assist through the event.	Promotes coping with new and painful experiences.
Suggest psychological consultation if appropriate.	Assists child to deal constructively with frustration and compliance with medical regimen for lifelong illness.

NIC: Self-Esteem Enhancement

Evaluation

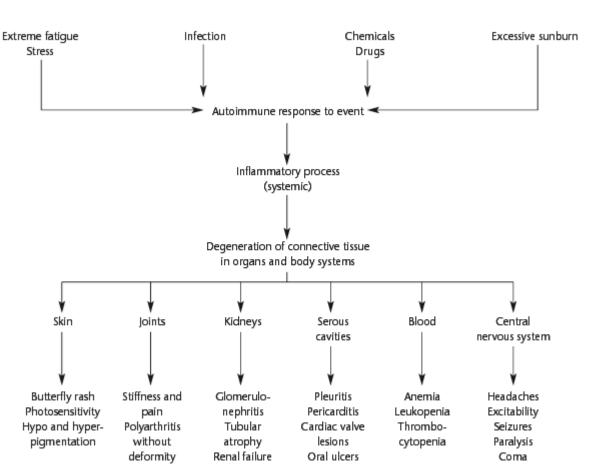
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What feelings about chronic illness did child verbalize? What 3 ways to cope did child identify? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR LUPUS ERYTHEMATOSUS



LUPUS ERYTHEMATOSUS

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 DELMAR'S PEDIATRIC NURSING CARE PLANS - 3rd Ed. (2005) UNIT 6 - MUSCULOSKELETAL SYSTEM CHAPTER 6.3 - LUPUS ERYTHEMATOSUS

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CHAPTER 6.4 - LEGG-CALVE-PERTHES DISEASE

INTRODUCTION

Legg-Calve-Perthes disease (osteochondritis deformans), is a disease of the femoral head occurring in children between 3 to 12 years of age. Its cause is unknown but the disease is characterized by a necrosis of the femoral head which results from an impaired circulation of the femoral epiphysis extending to the acetabulum. Joint dysfunction with hip pain or ache and a limp that is continuous or intermittent are common signs and symptoms of the condition. Early treatment to maintain the femoral head in the acetabulum determines the prognosis. The disease progression and resolution is classified into four stages: stage I is the necrosis and degeneration of the femoral head (avascular); stage II is the bone absorption and vascularization (revascularization); stage III is the new bone formation with ossification (reparative); and stage IV is the reformation of the femoral head to a sphere (regenerative).

MEDICAL CARE

X-ray: reveals changes in the femoral head and hip from a flattened appearance (stage I) to a mottled appearance and progressing to increased bone density and normalization of the rounded appearance of the femoral head (stage IV).

Magnetic Resonance Imaging (MRI): useful early in the disease to detect changes as radiographic changes are not present for several months after onset. MRIs are useful later in assessing containment of the femoral head in the acetabulum.

Abduction Traction: used to increase the range of motion in a child who has developed limited hip motion from pain and spasm. Abduction traction is gradually increased on a daily basis to a point comfortably tolerated by the child. Traction may be used prior to surgical intervention and may be used in a home-based program.

Serial Casting: casting of the hips in an abducted position with weekly cast changes using a progressively longer bar until full range of abduction is achieved. Casting also contains the femoral head in the acetabulum. The cast may be bivalved later and used as a splint.

Osteotomy: surgical realignment of the femur so that the head of the femur is securely contained within the acetabulum. Requires 6 to 8 weeks of a hip spica cast after surgery and may be preceded by traction.

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Musculoskeletal impairment (femoral head).

Defining Characteristics: (Specify: imposed restrictions of movement by medical protocol of corrective device [cast, brace, traction], reluctance to attempt movement, restriction in weight-bearing, limited ROM, bed rest.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: physical immobilization, pressure of cast or appliance and altered circulation, sensation.)

Defining Characteristics: (Specify: change in skin color and temperature proximately to cast, skin irritation at cast edges, numbness or tingling distal to cast, redness on skin from prolonged pressure, break in skin from surgical correction.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of immobilization.

Defining Characteristics: (Specify: environmental and stimulation deficiencies, inability to perform self-care activities appropriate for age, inability to participate in school and social activities.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about the disease.

Defining Characteristics: (Specify: request for information about initial and long-term treatment, management of the therapy, and modification of activities.)

Goal: Clients will obtain knowledge about the illness by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of the four stages of the disease.

 \checkmark Parents and child (if applicable) verbalize understanding of treatment plan (specify).

NOC: Knowledge: Disease Process

INTERVENTIONS

- Assess knowledge of pathology of the disease and its four stages, treatment and prognosis, signs and symptoms. Provide information as needed. of age with each stage lasting approximately 9 to 12 months; the younger the child at the time of diagnosis, the more positive the results and prognosis.
- Teach parents and child that hip pain or stiffness that is constant or intermittent with involvement of the knee or thigh, limited ROM of the hip joint, a limp on the affected side may indicate aseptic necrosis of the femoral capital epiphysis with degenerative changes in the femoral

RATIONALES

Provides information needed to develop a plan of instruction to ensure compliance of the medical regimen for correction; usually lasts 1 to 4 years and affects children 3 to 12 years

Reveals signs and symptoms of the disease usually noted in the second stage.

head.

- Teach parents and child about use and purpose of traction if used.
- (If home traction is used, refer parents to a home health agency.)

(For surgical correction, inform parents that child will need prophylactic antibiotics, will receive IV narcotics for pain for 2 to 3 days after surgery, will have a hip spica cast applied, and will be discharged to home 4 to 5 days after surgery.)

- (Teach parents about purpose and application of an abduction splint; after ROM achieved, demonstrate and allow for return demonstration of application.)
- Teach child to avoid weight-bearing on the affected limb (except as prescribed by physician) and to be relatively inactive; advise activities suitable to stage of condition such as hobbies, crafts, games, museums, events of interest.

Encourage parents to advise school of activities that are allowed for learning and peer interactions.

Teach parents about care of cast or splint including cleaning, tightness, and alignment with joints.

Instruct parents and child in use and care of crutches if used including swing through gait; monitor for repair needs as presence of loose screws and worn tips.

Encourage parents to maintain pathways clear of clutter or toys in home.

Suggest to parents to prepare for attendance at special activities by calling in advance for special transportation, use of wheelchairs or other aids. Applied to stretch adductor muscles before abduction cast is used, or before surgery.

Home traction allows child to be in comfortable, familiar surroundings while maintaining therapeutic regimen; visits from home nurse allow evaluation of treatment and provision of family support and education.

Decreases anxiety about the surgical procedure through knowledge of postoperative care.

Provides containment of the position of the femur while allowing for supported weight-bearing during healing, and is removable for bathing.

Prevents degeneration of the hip joint caused by femoral damage resulting from weight-bearing activities; prolonged bed rest is no longer required.

Provides special needs of child in order to continue school attendance and activities that may be adapted to appliance to promote feeling of acceptance.

Promotes proper function of appliance used and prevents complications associated with its use.

Promotes safe use of crutches for mobility.

Prevents falls and injury.

Provides for participation in outside activities to enhance growth and development needs in long-term therapy.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

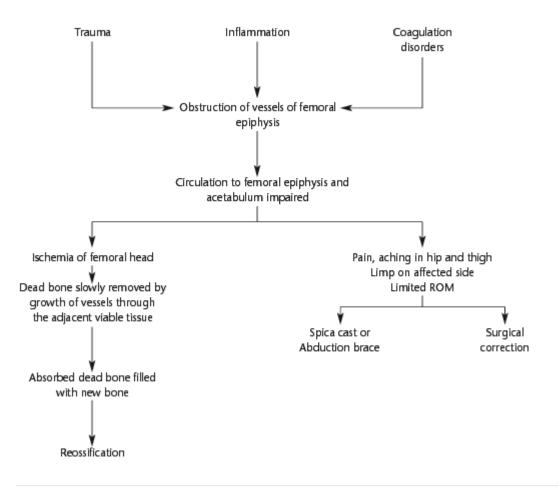
(Has goal been met? Not met? Partially met?)

(What did clients verbalize about the four stages of Legg-Calve-Perthes disease? What did clients verbalize about treatment regimen? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR LEGG-CALVE-PERTHES DISEASE

LEGG-CALVÉ-PERTHES DISEASE



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CHAPTER 6.5 - OSTEOGENIC SARCOMA

INTRODUCTION

Osteogenic sarcoma is a primary malignancy of the bone with the metaphysics of the long bones most commonly affected. These include the femur, humerus, and tibia. Metastasis most commonly affects the lungs but may involve other organs. The disease most commonly occurs in children over 10 years of age. Treatment consists of amputation of the limb with chemotherapy before and/or following surgery, or a bone and joint replacement in selected children to salvage the limb with chemotherapy before the surgery.

MEDICAL CARE

Analgesics: to control postoperative pain.

Chemotherapy Protocol: methotrexate with leucovorin calcium, doxorubicin, dactinomycin cyclophosphamide, cisplatin.

Antigout Agent: allopurinol to reduce the severity of hyperuricemia caused by chemotherapy which promotes nucleic acid degradation causing increased plasma uric acid levels.

Bone X-ray: reveals bone lesion, fracture caused by tumor invasion.

Bone Scan: reveals presence of bone lesions and size.

Bone Biopsy: reveals presence of malignant tumor.

Computerized Tomography (CT): reveals metastasis of bone and other organs.

Enzymes: alkaline phosphatase (ALP): reveals increased level caused by abnormal osteoblastic activity or bone cell production; also reveals presence of isoenzymes (ALP2) of bone origin.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: inability to ingest and digest food, chemotherapy.)

Defining Characteristics: (Specify: anorexia, nausea, vomiting from chemotherapy, anxiety, grieving, weight loss, NPO status before and after surgery.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: altered intake; excessive losses through normal routes.)

Defining Characteristics: (Specify: diarrhea, vomiting from chemotherapy, NPO status before and after surgery.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: chemotherapy, IV, surgical site, and use of prosthesis.)

Defining Characteristics: (Specify: disruption of skin surfaces, destruction of skin surfaces, redness, edema, excoriation of stump site, improper fit or application of prosthesis, extravasation of IV site with swelling skin, redness, and tissue necrosis.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Amputation.

Defining Characteristics: (Specify: inability to move within physical environment, reluctance to attempt movement, imposed restrictions of movement with loss of limb, inability to adapt to prosthesis or brace, use of crutches or wheelchair.)

See DIARRHEA

Related to: Chemotherapy.

Defining Characteristics: (Specify: increased frequency of bowel sounds and loose, liquid stools.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Change in health status, threat of death, threat to self-concept.

Defining Characteristics: (Specify: increased apprehension and fear of diagnosis; expressed concern and worry about preoperative procedures and preparation, postoperative effects of therapy on physical and emotional status, possible metastasis of disease, loss of limb and use of prosthesis.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents and child express feelings about illness.

 \checkmark Clients verbalize feeling less anxious.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

Assess level of anxiety of parents and child and how it is manifested; the need for information that will

Provides information about source and level of anxiety and need for interventions to relieve it; relieve anxiety.

- Assess possible need for special counseling services for child.
- Allow open expression of concerns about illness, procedures, treatments, and possible consequences of surgery.
- Communicate with child at appropriate age level and answer questions calmly and honestly; use pictures, models, and drawings for explanations.
- Provide child with as much input in decisions about care and routines as possible.
- Encourage parents to stay with child; provide a telephone number to call for information.
- Provide continuing nurse assignment with the same personnel.

Orient child to surgical and ICU unit, equipment, noises, and staff. Teach parents and child about the disease process, surgical procedure, what to expect preoperatively and postoperatively including chemotherapy and its benefits and side effects (nausea, vomiting, diarrhea, stomatitis, alopecia, and others are possibilities but are temporary; phantom pain).

- Explain all procedures and care in simple, direct, honest terms and repeat as often as necessary; reinforce physician information if needed and provide specific information as requested.
- Inform parents and child of the extent of surgery planned with the removal of a limb (that a temporary prosthesis will be fitted immediately following surgery, and a permanent one will be fitted in 6 to 8 weeks; that recreational and

sources for the child may be
procedures, fear of mutilation or
death, unfamiliar environment of
hospital and may be manifested by
restlessness, inability to play,
sleep, or eat.
Reduces anxiety and supports child
dealing with illness and promotes
adjustment to lifestyle changes.
Provides opportunity to vent
feelings and fears to reduce
anxiety.

- Promotes understanding and trust.
- Allows for more control and independence in situations.
- Promotes care and support by parents.

Promotes trust and comfort and familiarity with staff giving care.

- Reduces anxiety caused by fear of unknown.
- Provides information to promote understanding that will relieve fear and anxiety; understanding of preoperative and postoperative treatments and effect on body image.

Supplies information about all diagnostic procedures and tests such as CBC, platelets with chemotherapy and scans, and X-rays for diagnosis.

Reduces anxiety when knowledge and support is given, and child and parents will not feel betrayed by inadequate preparation of procedures and treatments.

Provides information and support
from a peer with the same
condition and who would have
empathy.
Provide resource for information and
support groups.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents and child express feelings about the illness? Did clients verbalize decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED ORAL MUCOUS MEMBRANE

Related to: Chemotherapy.

Defining Characteristics: (Specify: stomatitis, oral ulcers, hyperemia, oral pain or discomfort, oral plaque.)

Goal: Child will be free of oral mucous membrane irritation by (date and time to evaluate).

Outcome Criteria

 \checkmark No oral mucous membrane lesions present.

NOC: Oral Health

RATTONALES

INTERVENTIONS	RATIONALES
Assess oral cavity for pain ulcers,	Provides information about
lesions, gingivitis, mucositis or	effect of chemotherapy.
stomatitis and effect on ability	
to ingest food and fluids.	
Provide mouth rinses, cleansing	Provides mouth care without
with swabs or soft toothbrush.	irritating oral mucosa.
Administer medication topically as	Permits eating with more
ordered (specify) before meals	comfort (action of drug).
and offer bland, smooth foods	
that are not hot or spicy.	
Administer an antiseptic mouth rinse (specify) 30 minutes before	Promotes comfort of oral mucosa and maintains integrity.

any food or fluid intake, as ordered.	
Encourage child to select foods they prefer from list. nutrition.	Allows for independence and control over situation to
	reduce helplessness and increase
Teach parents about the effect of chemotherapy on oral mucosa and	Promotes understanding of side effects that occur and
in treatment to decrease discomfort in oral cavity.	temporary nature of the side effects.
Teach parents about mouth rinses and topical application of	Promotes effective care of oral cavity to relieve discomfort
medications.	and prevent mucosa breakdown and increased inflammation.
Instruct to use soft brush or swabs	Prevents trauma to mucosa.

NIC: Oral Health Maintenance

to clean mouth.

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does child have any oral mucous membrane lesions?)

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE PROTECTION

Related to: (Specify: drug therapy [antineoplastics]: abnormal blood profile [leukopenia, thrombocytopenia, anemia, coagulation].)

Defining Characteristics: (Specify: altered clotting, bone marrow suppression, deficient immunity against infection, hematoma, petechiae, bleeding from nose or gums, hematemesis, blood in stool.)

Goal: Child will be protected by (date and time to evaluate).

Outcome Criteria

 \checkmark Child does not experience bleeding.

- \checkmark Temperature remains < 100° F.
- \checkmark Breath sounds clear bilaterally.

NOC: Infection Status

INTERVENTIONS

Assess for bleeding from any site, WBC, platelet count, Hct, absolute neutrophil count, and febrile episodes.

Avoid trauma by use of hard toothbrush or dental floss, taking rectal temperatures, performing unnecessary invasive procedures. Carry out handwashing technique before giving care, use mask and gown when appropriate, provide a private room, monitor for any signs and symptoms of infections, especially pulmonary.

Teach parents and child to avoid rough play or sports, straining at defecation, forcefully blowing nose.

Teach parents and child to avoid people with upper respiratory infection or any illness.

Teach parents to report any fever, behavior changes, headache, dizziness, fatigue, pallor, slow oozing of blood from any area, exposure to a communicable disease.

Instruct and allow for return demonstration of urine and stool testing for blood using dipstick and hematest.

RATIONALES

Provides information about frank bleeding or blood profile abnormalities that predispose to bleeding caused by bone marrow suppression and immunosuppression resulting from chemotherapy. Prevents bleeding caused by trauma during chemotherapy which alters platelet and clotting factors.

Prevents transmission of pathogens to a compromised immune system during chemotherapy if neutrophil count is less than 1,000/cu mm.

Prevents trauma that causes bleeding.

Prevents risk for infection in the highly susceptible child.

Indicates a complication associated with an abnormal blood profile.

Identifies presence of bleeding in gastrointestinal or urinary tract.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is there any sign of bleeding? What has been looked for? What is temperature? Describe breath sounds.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: broken skin and altered mobility; prosthesis use.)

Defining Characteristics: (Specify: amputation of a limb, changes in stump incision [redness, irritation, swelling, drainage], improper fit of prosthesis and failure to adapt to it, improper positioning and alignment of the stump, psychosocial maladaption to prosthesis.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Stump is clean and dry without redness, odor, or drainage.

 \checkmark Child and parents begin to care for stump (specify).

NOC: Risk Control

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INTERVENTIONS	RATIONALES
Assess child for type of surgery and condition and healing of the stump, type of bandaging or cast, presence of drains, type of prosthetic device and fit.	Provides information about amputation needed to provide specific care of stump and rehabilitation.
Assess dressing for bleeding, redness, pain, drainage at stump area q 2 to 4h; maintain dressing (pressure) or wrapping of stump as ordered; change dressing only if ordered.	Indicates infection or risk of hemorrhage at amputation.
Maintain Trendelenburg and prone position as ordered; avoid elevation (with pillow), external rotation, or abduction of stump.	Prevents deformities and contractures caused by hip flexion.
Perform ROM daily and exercises recommended by physical therapist.	Promotes mobility and healing of the stump and prevents contractures.
Cleanse stump and socket daily with mild soap and warm water, rinse and pat dry.	Promotes adaptation to device and prevents infection caused by pathogens transmitted via the prosthetic device.
Support expressions about loss of lifestyle and permanent disability adjustment difficulties (age appropriate).	Promotes venting of feelings and assists to cope with change in body image.
Instruct parents and child in stump care, toughening exercises, application of stocking and prosthesis, care of device.	Promotes adaptation to loss and correct care of stump and prosthesis.
Instruct child in stump positioning and exercising, ROM of muscles and joints.	Prevents muscle or joint complications and enhances mobility.
Inform child of importance of daily activities to perform and those to	Promotes mobility and return to former activities within

avoid and explain reasons for restrictions.	limitation imposed by amputation and use of prosthetic device.
Teach parents and child to continue chemotherapy and rehabilitation therapy.	Promotes healing.
Discuss modification of clothing and instruct in crutch walking and how to get around in room, at home, and at school.	Enhances body image and return to limited activities.
Reassure child that feelings of anger, denial, and hostility are normal following such a loss.	Promotes acceptance of child while grieving for loss.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

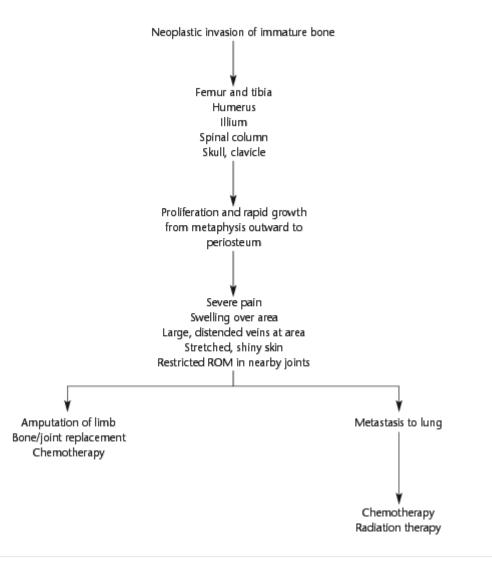
(Has goal been met? Not met? Partially met?)

(Describe stump. Describe stump care provided by parents and child.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR OSTEOGENIC SARCOMA

OSTEOGENIC SARCOMA



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CHAPTER 6.6 - OSTEOMYELITIS

INTRODUCTION

Osteomyelitis is an infection of the bone caused by any infectious agent, but most commonly by *Staphylococcus aureus*, hemolytic streptococci, *E. coli*, or *Haemophilus influenzae*. In children, the metaphyses of long bones (tibia, femur) are the sites most frequently involved. The infectious agent usually enters the bone through the blood (hematogenous) after trauma or an upper respiratory infection. Less commonly, the infection can spread to the bone secondary to a contiguous focus of infection. The disease can be acute, with a rapidly destructive pyogenic infection of the bone and marrow and signs of systemic infection as well as local pain, swelling, and redness of the involved area. In subacute osteomyelitis, the disease is insidious in onset and the child has pain and dysfunction without systemic infection. The subacute form may be caused by children receiving antibiotics during a presymptomatic period. Osteomyelitis most commonly occurs in children 5 to 14 years of age. The disease can usually be treated with antibiotics, but may require surgical drainage as well.

MEDICAL CARE

Analgesics/Antipyretics: acetaminophen for pain and to reduce fever.

Antibiotics: dependent on identification of infective agent and sensitivity to the antibiotic.

Bone X-ray: shows changes in the involved area after the first 2 weeks.

Computerized Tomography (CT): reveals bone changes early in the disease.

Bone Scan: reveals infectious process in bone by increased uptake of radionucleotides.

Erythrocyte Sedimentation Rate (ESR): reveals increases in acute stage.

Complete Blood Count (CBC): reveals increased WBC during infectious process.

Blood/Wound Cultures: reveals organisms responsible for infection by culture of site.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Infection.

Defining Characteristics: (Specify: increase in body temperature above normal range, warm to touch, increased respiratory and pulse rate.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: elevated temperature, diaphoresis, thirst, altered intake, insensitive losses.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Pain and discomfort, musculoskeletal impairment.

Defining Characteristics: (Specify: reluctance to attempt movement, imposed restrictions of movement by immobilization of part by cast and/or bed rest, restriction in weight-bearing.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: anorexia, irritability, restlessness, weight loss, inadequate food intake.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: physical immobilization, pressure of cast and altered circulation, sensation.)

Defining Characteristics: (Specify: change in color and temperature of skin proximal to cast or device, skin irritation at cast edges, numbness distal cast, prolonged pressure on an area with redness present, break in skin from surgical wound.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Change in health status, change in environment (hospitalization).

Defining Characteristics: (Specify: expressed apprehension and concern about prolonged hospitalization resulting from spread of infection, possible surgical drainage of infected area.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients identify source of anxiety.

 \checkmark Clients verbalize decreased anxiety.

NOC: Anxiety Control

INTERVENTIONS

Assess source and level of anxiety and need for information that will relieve anxiety.

RATIONALES

Provides information about anxiety, its effect and need to relieve it; sources may include prolonged

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immobilization and hospitalization, long-term IV antibiotic therapy, possible surgical drainage and antibiotic instillation into wound, risk of complications from disease and high-dose medication therapy. Provides opportunity to vent feelings and fears to reduce anxiety.

Encourage expression of concerns and time to ask questions about condition, procedures, prognosis, recovery time by parents or child.

Answer questions calmly and honestly; use pictures, drawings, and models for information about demonstrations.

Encourage parents to stay with child during hospitalization, and to assist in care; encourage visits from friends and relatives.

Give parents and child as much input into decisions about care and usual routines as possible.

Teach parents and child about cause and course of the disease, extent of the infectious process, and treatment modalities.

Inform parents and child of tests and procedures to be done and the reasons for them; include surgical procedure if planned.

Teach parents and child of reason for antibiotic therapy.

Teach parents and child about treatment to expect following surgery including presence of cast on the affected extremity, antibiotic therapy instillation into the wound, and continuous removal of drainage from the wound by low suction.

Teach parents and child that although weight-bearing will be disallowed until healing is well established, appetite, quiet activity, and improved sense of well-being will be increased as acuity of the disease is reduced.

(Inform parents that physical therapy may be prescribed after infection subsides, acute healing assured.) Promotes trust and secure, supportive environment.

Allows parents to care for and support child, continue parental role and promote security for the child.

Allows for more control over situation and maintains familiar routines for care.

Provides information that will enhance understanding of the disease to relieve anxiety.

Provides rationale for diagnostic procedures and surgery to prepare for these experiences and reduce fear of unknown that increases anxiety.

Provides rationale for long-term therapy to control infectious process and prevent its spread to reduce anxiety.

Provides information about postoperative care to reduce anxiety.

Promotes comfort and positive attitude and reduces anxiety level when expectations are known.

Permits optimal function of affected extremity and allows for feeling of positive outcome.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents and child identify source of anxiety? Did clients verbalize decreased anxiety? Use quotes.)

RATIONALES

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Inflammation/infection.

Defining Characteristics: (Specify: communication of pain descriptors, crying, irritability, restlessness, withdrawal, reluctance to use or move affected limb, tenderness.)

Goal: Child will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Child rates pain as a (specify using a pain scale. Identify scale used).

NOC: Pain Level

INTERVENTIONS

Assess site for pain on movement of extremity; resistance of muscles to passive movement, holding extremity in semi-flexion; severity, type, and duration of pain using a pain scale if appropriate.	Provides information about pain as a basis for analgesic therapy.
Administer analgesic and sedative as ordered (specify drug, dose, route) and note response.	Reduces pain and promotes rest to reduce stimuli that cause pain (action of drug).
Place extremity in position of comfort and support with pillows at 30 degrees elevation.	Promotes comfort and reduces or prevents pain by reducing edema when venous return is enhanced.
Move extremity with smoothness and care.	Prevents pain caused by careless handling or abrupt movement of affected part.
Provide diversionary activities and quiet play during acute stage (specify).	Diverts attention from the pain.

Teach parents and child about analgesic medications and expected results.	Provides information about effects expected from analgesic therapy to relieve pain until acute stage subsides or healing is underway.
Suggest to parents and child ways to move, position extremity; importance of maintaining immobilization of the extremity	Prevents undue pain caused by movement of affected area.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

activity until advised.

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used)

and avoiding any weight-bearing

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: infection spread, immobilization, effects of cast application.)

Defining Characteristics: (Specify: changes in color and temperature, tactile perception of casted extremity, increased body temperature, purulent drainage, edema, erythematic infection site, musty odor under cast, increased WBC, positive wound culture.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Child denies increased pain. WBC levels remain < (specify).

NOC: Risk Control

INTERVENTIONS

RATIONALES

Assess presence of localized pain, I swelling, and warmth over the affected bone; purulent drainage with a musty odor from open wound, under cast, or over the infected area that is left open for observation. Administer antibiotics based on

Provides information about site of infection(s) which may be open wound, bone, or surgical drainage wound; inadequate treatment may result in chronic osteomyelitis or persistence and spread of infection. (Action of drug.) physician orders (specify).

Administer antibiotic solution (specify) into the wound, as ordered, via an IV administration set at a regulated rate; provide wound drainage by connecting tubes from wound to low suction.

Place child in isolation and maintain body fluid precautions (wound and skin) if wound is open and draining.

Maintain sterile technique for all procedures and dressing changes; cleanse, pack wound as ordered. Measure limb circumference when

assessing infectious process.

Monitor WBC, ESR, and antibiotic levels as appropriate.

Provide immobilization of limb by maintaining cast, splint, and bed rest status; monitor color, temperature, sensation, and motion of digits.

Teach parents and child about proper technique for handwashing, wound care and han-dling contaminated articles/supplies.

Instruct parents about antibiotic administration including action, dose, time, frequency, side effects, and expected results; length of time that antibiotic therapy may last.

Teach parents and child about measures to maintain immobility and reason for isolation precautions.

Teach parents to care for cast or splint including petaling edges, maintaining dry and clean cast or splint, preventing small particles or objects from entering cast or splint.

Inform parents and child that physical therapy may follow healing and resolution of infection. Treats open wound infections and ensures continuous wound drainage.

Prevents wound contamination or spread of infection; agency policy dictates measures for precautions. Prevents introduction of infectious organisms.

Reveals changes caused by edema.

Increases in WBC and ESR found in infections and antibiotic levels reveal if therapeutic levels are maintained for effective treatment. Maintains limb alignment, limits

spread of infection, and prevents possible fraction or complications resulting from neurovascular problems.

Prevents transmission of

microorganisms to or from child.

Promotes long-term therapy to ensure effective results.

Prevents further spread of infection and possible damage to affected area and surrounding tissue.

Ensures effective immobilization and prevents complications caused by whole or bivalve cast or splint.

Ensures optimal functioning of affected limb.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does child complain of increased pain? What is WBC level-include date and time of test.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED SOCIAL INTERACTION

Related to: (Specify: limited physical mobility, therapeutic isolation.)

Defining Characteristics: (Specify: change in pattern of interaction, lengthy treatment and immobilization, boredom, inability to engage in usual activities for age group, environment that lacks diversion.)

Goal: Child will increase social interaction by (date and time to evaluate).

Outcome Criteria

 \checkmark Child participates in family activities.

 \checkmark Child socializes with friends.

NOC: Social Involvement

INTERVENTIONS

Provide age-appropriate toys that can be used in bed while in a prone or sitting position depending on type of treatment and degree of immobilization.	Pr
Provide exposure to other children	Pr
by moving bed near areas of	
activity or near a window; wheel	
on a stretcher or in a wheelchair	
or stroller, allow to walk with	
cast or splint when permitted.	
Encourage family and friends to	Pr
visit, call, or stay with child;	
if in isolation provide frequent	
interactions or someone to stay	
with child.	
Place toys and other articles within	Pr
reach.	
Inform parents to include infant/	Pr
child in family activities.	

RATIONALES

- Promotes social and developmental activities and reduces boredom during longterm treatment.
- rovides environmental stimulation and social interaction.
- Promotes social interaction with others during long-term treatment and reduces boredom.
- Provides access to diversion activities when needed. Promotes feeling of acceptance and well-being as part of the

	family.
Inform of devices available or methods used for mobility to fit needs of child with a cast or splint.	Promotes exposure to various activities and changes of environmental stimuli.
Encourage parents to allow as much independence in self-care by child as possible.	Promotes independence and allows some control over the situation.

NIC: Socialization Enhancement

Evaluation

(Date/time of evaluation of goal)

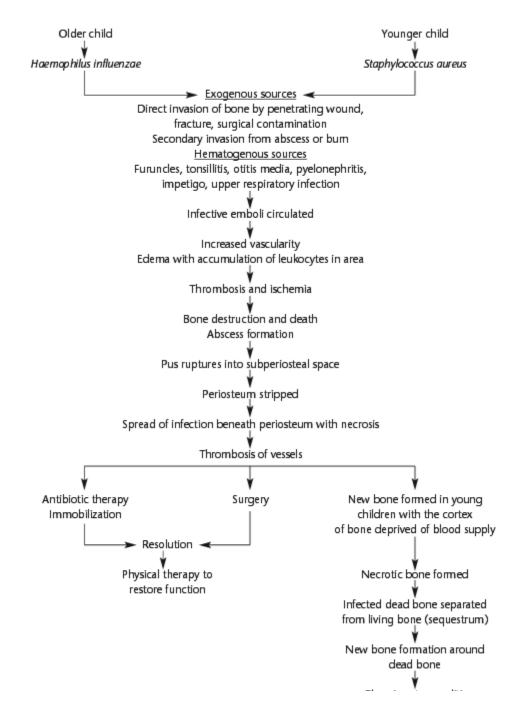
(Has goal been met? Not met? Partially met?)

(Does child participate in family activities? Does child socialize with friends? Specify.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR OSTEOMYELITIS

OSTEOMYELITIS



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CHAPTER 6.7 - JUVENILE RHEUMATOID ARTHRITIS

INTRODUCTION

Juvenile rheumatoid arthritis (JRA) is a chronic inflammatory disease that involves the synovium of the joints resulting in effusion and eventual erosion and destruction of the joint cartilage. It is classified into different types and characterized by remissions and exacerbations with the onset most common between 2 to 5 and 9 to 12 years of age. Pauciarticular arthritis involves only a few joints, usually under five; polyarticular arthritis involves the presence of arthritis and associated high temperature, rash, and effects on other organs such as the heart, lungs, eyes, and those located in the abdominal cavity. Prognosis is based on the severity of the disease, type of arthritis, and response to treatment with the most severe complications of permanent deformity, hip disease, and iridocyclitis with visual loss.

MEDICAL CARE

Anti-inflammatories (Nonsteroidal): for analgesia, antipyretic action as well as anti-inflammatory and antirheumatic effects; may be used in combination with steroids and gold salts; action thought to be the inhibition of prostaglandin synthesis.

Anti-inflammatories (Steroidal): prednisone (Deltasone) given PO to suppress inflammatory responses and reactions, also reduces antibody titers and inhibits phagocytosis and release of allergic substances.

Antirheumatics (Slow acting): to inhibit collagen formation or alter immune responses and inhibit prostaglandin synthesis in the treatment of rheumatic diseases.

Cytotoxics: to treat rheumatoid arthritis when response to other anti-inflammatory drugs are not effective if the disease is severe and debilitating; usually used in combination with other drugs.

Joint X-ray: reveals widened joint spaces with later joint destruction and fusion, evidence of osteoporosis and inflammation at affected joint sites.

Erythrocyte Sedimentation Rate (ESR): reveals increases in systemic type but may be increased or decreased depending on the degree of inflammation.

Antinuclear Antibodies: reveals presence in 75% of rheumatoid factor with a positive result in 25%; positive or negative result depending on type of arthritis.

Rheumatoid Factor: reveals presence in those with later onset type with a positive result in pauciarticular type.

Complete Blood Count: reveals increased WBC in early stages.

Synovial Fluid Culture: reveals absence of infectious process and confirms absence of other conditions by joint aspiration of fluid for examination.

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Musculoskeletal impairment, pain, and discomfort.

Defining Characteristics: (Specify: reluctance to attempt movement, limited range of motion, imposed restrictions of movement by medical protocol, resting or immobilization of joint(s) by splinting and positioning, fatigue, malaise.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: external factor or physical immobilization.)

Defining Characteristics: (Specify: skin irritation under splint(s), redness from prolonged pressure, break in skin from surgery if done, macular rash on extremities and trunk areas.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of physical disability.

Defining Characteristics: (Specify: environmental and stimulation deficiencies, inability to perform self-care activities appropriate for age, growth retardation during active disease, reduced peer relationships.)

See HYPERTHERMIA

Related to: Illness of inflammation.

Defining Characteristics: (Specify: increase in body temperature above normal range, chills, low-grade temperatures or high elevation late in day or twice a day.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: anorexia, weight loss or poor gain, weakness, fatigue, irritability.)

ADDITIONAL NURSING DIAGNOSES

CHRONIC PAIN

Related to: Chronic physical disability.

Defining Characteristics: Verbalization or observed evidence of pain experienced for more than 6 months, guarded movement, fear of reinjury, altered ability to continue activities, physical and social withdrawal. Single or multiple joint involvement, joint stiffness, loss of motion, edema, and warmth in joint(s) and painful to touch.

Goal: Child will experience decreased chronic pain by (date and time to evaluate).

Outcome Criteria

Assess severity of joint pain,

location, duration, remissions and

 \checkmark Child rates pain as less than (specify using a scale. Specify scale.).

NOC: Comfort Level

INTERVENTIONS

RATIONALES

exacerbations, stiffness and what precipitates pain such as weight gain, activity, fatigue; effect on mobility and participation in ADL; presence of joint deformity. Administer medications (specify) as ordered and assess effect of medications in relieving pain. Apply warm compresses, packs, or soaks to painful areas; paraffin baths and whirlpool as ordered. Provide 1 to 2 rest periods during

- Provide 1 to 2 rest periods during day and quiet environment for sleep.
- Encourage child to assume position of comfort; elevate and support painful joints when changing position.
- Apply splints if ordered for night use.
- Explain cause of pain to child and measures that should be taken to relieve pain.
- Teach child and parents about factors (stress, climate movement) that exacerbate pain episodes, and to express or report presence of

the effect of the disease on the musculoskeletal system: allows for analgesic/ antiinflammatories selection and better management of activity involvement; inflammatory process cause pain with the edema resulting from joint effusion and synovial thickening and limited motion resulting from muscle spasms; joint deformity results from joint destruction. (Action of drugs: relieves pain and the inflammatory process associated with the pain; drugs may be administered alone or in combination including the nonsteroidal anti-inflammatory drugs that act as analgesic, antipyretic and anti-inflammatory; slower acting antirheumatic drugs which may be added for optimal effect if NSAIDs are ineffective; corticosteroid drugs in lowest effective dose for short period of time especially in the presence of a life-threatening situation.) Promotes circulation to the area by vasodilation to relieve pain; moist heat relieves painful, stiff areas. Decreases stimulation that increases pain, and it promotes rest, especially during acute episodes. Promotes diversionary activity to detract from pain.

Provides information symptomatic of

- Provides immobilization of joints to ease pain during movement. Provides reasons for treatments and medications.
- Promotes opportunity to avoid those situations or activities that contribute to exacerbations of pain and to provide for immediate

<pre>pain at the onset. Instruct parents and child in accurate administration of medications including side effects and importance of compliance with regimen whether taken qid, h.s., or bid and side effects to report (specify).</pre>	relief. Promotes compliance with medical regimen to control pain and inflammation.
Teach parents to give warm bath daily for 10 minutes or warm wet packs with a towel bath to painful areas.	Supplies heat to affected joints to relieve pain and stiffness.
<pre>Instruct parents and child to avoid overactivity or movement of affected joints. Teach child relaxation techniques, music therapy and diversionary activities such as TV, reading, games.</pre>	Prevents injury to affected joints during the acute episode when immobilization is important. Provides nonpharmacologic interventions to relieve pain.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED BODY IMAGE

Related to: Biophysical and psychosocial factors.

Defining Characteristics: (Specify: verbal and nonverbal responses to change in body appearance [joint deformity, steroid side effects], negative feelings about body, multiple stressors and change in daily living limitations and social relationships.)

Goal: Child will experience improved body image by (date and time to evaluate).

Outcome Criteria

 \checkmark Child expresses feelings about illness.

 \checkmark Child identifies at least 1 positive thing about his or her body.

NOC: Body Image

INTERVENTIONS

- Assess child for feelings about multiple restrictions in lifestyle, chronic illness, difficulty in school and social situations, inability to keep up with peers and participate in activities.
- Encourage expression of feelings and concerns, and support communications with parents, teachers, and peers.
- Avoid negative comments and stress positive activities and accomplishments.
- Note withdrawal behavior and signs of depression.
- Note presence of joint deformities, need to use splints, weight gain, shift in fat distribution, edema and effect on child.

Show support and acceptance of changes in appearance of child; provide privacy as needed.

Teach parents about maintaining support for child.

Discuss with parents and child the impact of the disease on body systems and risk for deformity and disabilities; correct misinformation and inform of ways to cope with body changes.

Encourage parents to be flexible in care of child and to integrate care and routines into family activities; to allow child to participate in peer activity.

Discuss with parents and child how to deal with peer perceptions of appearance and how to tell others about change in appearance.

Suggest psychological counseling or child life worker and inform of functions performed by these professionals.

Refer to Juvenile Arthritis Foundation.

RATIONALES

Provides information about status of self-concept and body image that require special attention.

Provides opportunity to vent feelings and reduce negative feelings about changes in appearance. Enhances body image and confidence.

Reveals responses to body image changes and possible poor adjustment to changes. Reveals side effects of steroid therapy and disease manifestations that affect body image. Promotes trust and demonstrates respect for child.

Encourages acceptance of the child with special needs (long-term steroid therapy and side effects, lifelong activity restrictions). Provides correct information to assist in dealing with negative feelings about body.

Promotes well-being of child and sense of belonging and control of life events by participating in normal activities for age and enhancing developmental task achievement.

Prevents stigmatization of child by those who are not apprised of the child's disease; attitude of others will affect child's body image.

Assists to improve self-esteem and to learn coping and problem solving skills.

Promotes support from others and how they handle the changes.

NIC: Self-Esteem Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What feelings about chronic illness did child verbalize? What positive thing about their body did child identify? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

SELF-CARE DEFICIT: BATHING/HYGIENE, DRESSING/GROOMING, FEEDING, TOILETING

Related to: Pain, discomfort, and musculoskeletal impairment.

Defining Characteristics: (Specify: impaired ability in performance of ADL and maintenance of complete physical care; pain and weakness of joints and intolerance to activity; immobility status; joint deformity and/or contractures.)

Goal: Child will perform self care within limits of illness by (date and time to evaluate).

Outcome Criteria

 \checkmark (Specify several self-care activities the child is capable of.)

NOC: Self-Care: Bathing/Hygiene, Dressing/Grooming, Feeding, Toileting

INTERVENTIONS	RATIONALES
Assess abilities and level of care and assistance.	Provides information about child's ability to perform self-care and to monitor
	progress.
Allow as much independence in ADL as possible but assist when needed.	Promotes independence and control over daily personal care needs without damage to joints.
Encourage to perform own care and praise all accomplishments.	Promotes sense of accomplishment and independence; motivates to continue progress in ADL.
Position articles needed for care within reach; provide physical aids/devices to assist in performance of ADL (crutches, wheel-chair, utensils that are easy to handle, hand bars, handles that are easy to open, clothing that is easy to put on and take off with zippers, Velcro, etc.).	Promotes independence and allows child access to aids to enhance independence.

Assist parents and child to develop plan and goals for daily ADL and suggest inclusions of actions taught by physical and occupational therapist.	Promotes independence and compliance in self-care.
Teach parents and child about application and use of aids and devices to accommodate self-care activities.	Promotes independence in ADL and self-confidence.
Discuss possible changes or adjustments in home and school environment to accommodate child's independence in meeting physical needs (pathways, furniture, doors).	Allows for safe participation in activities that are usually carried out by child on a daily basis.

NIC: Self-Care Assistance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What self-care activities did the child perform relative to the outcome criteria?)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: (Specify: inadequate or incorrect information or understanding, prolonged disease or disability progression that exhausts the physical and emotional supportive capacity of caretakers.)

Defining Characteristics: (Specify: expression and/or confirmation of concern and inadequate knowledge about long-term care needs, problems and complications, anxiety and guilt, overprotection of child.)

Goal: Family will cope more effectively by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients express feelings about child's chronic illness.

 \checkmark Clients identify 3 positive coping mechanisms to implement.

NOC: Family Coping

INTERVENTIONS Assist family to assess coping methods Provides information identifying used and effectiveness, family

RATIONALES coping methods that work and the interactions and expectations related to long-term care, developmental level of family, response of siblings, knowledge and use of support systems and resources, presence of guilt and anxiety, overprotection and/or overindulgence behaviors.

Encourage family members to express problem areas and explore solutions responsibly.

Assist family to establish short- and long-term goals for child and to integrate child into family activities, include participation of all family members in care routines.

Refer to assistance of social worker, counselor, clergy, or other as needed.

Refer to community agencies and contact with the Arthritis Foundation or other families with a child with arthritis.

Assist family members to express feelings, how they deal with the chronic needs of family member and coping patterns that help or hinder adjustment to the problems.

Inform family that overprotective behavior may hinder growth and development, and to treat child as normally as possible.

Teach family about remissions and exacerbations of the disease and that an exacerbation may last for long periods of time (over a period of months); that exacerbations may be precipitated by overactivity, stress, presence of other illnesses, climate changes.

Inform parents and child of suggestions of unorthodox cures for the disease by friends, and the harmful effects caused by some of them.

Assist family to identify positive coping mechanisms they may use (e.g.,

need to develop new coping skills and behaviors, family attitudes; child with special long-term needs may strengthen or strain family relationships and an undue degree of overprotection may be detrimental to child's growth and development (disallow school attendance and peer activities, avoiding discipline of child, and allowing child to assume responsibilities for ADL). Reduces anxiety and enhances understanding; provides family an opportunity to identify problems and develop problem solving strategies. Promotes involvement and control over

situations and maintains role of family members and parents.

Provides support to the family faced with long-term care of child with a chronic illness.

Provides information and support to child and family.

Allows for venting of feelings to determine need for information and support, and to relieve guilt and anxiety.

Promotes understanding of importance of making child one of the family and the adverse affects of overprotection of the child. Provides a realistic view of the chronic nature of the disease.

Prevents injury as well as disappointment when cures do not measure up to expectations.

Promotes ownership of solutions to coping difficulty.

discussing feelings and issues openly, hiring a baby-sitter once a week, family movie nights, etc.).

NIC: Family Involvement

Evaluation

(Date/time of evaluation of goal)

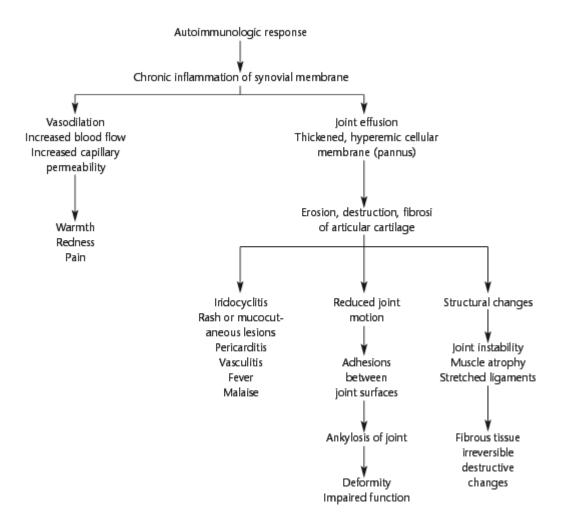
(Has goal been met? Not met? Partially met?)

(Did clients discuss feelings about child's chronic illness? Provide quotes. List 3 positive coping mechanisms the family plans to implement.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR JUVENILE RHEUMATOID ARTHRITIS

JUVENILE RHEUMATOID ARTHRITIS



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CHAPTER 6.8 - SCOLIOSIS

INTRODUCTION

Scoliosis is a lateral curvature of the spine with the thoracic area being the most commonly affected. It can be classified as functional or structural. Functional scoliosis is the result of another deformity and is corrected by treating the underlying problem. Structural scoliosis is most often idiopathic although it may be congenital or secondary to another disorder. There is a growing body of evidence that idiopathic scoliosis is probably genetic but the etiology is not completely understood. Structural scoliosis is more progressive and causes changes in supporting structures, such as the ribs. Management includes observation, bracing, and surgical fusion. Patients with idiopathic curves of less than 25 degrees are observed for progress until they have reached skeletal maturity. Bracing is recommended for adolescents with curves between 30 and 45 degrees, while curves greater than 45 degrees usually require surgery. The deformity may occur at any age, from infancy through adolescence, but the best prognosis belongs to those who are almost fully grown and whose curvature is of a mild degree. Idiopathic scoliosis most commonly occurs in adolescent girls.

MEDICAL CARE

Analgesics: to control postoperative pain depending on severity.

Spinal X-ray: reveals curvature of the spine via different views (A, P, and lateral) with head and hips unaligned.

Myelogram: reveals presence of neurologic abnormalities of muscle function.

Scoliometer: reveals deformity of back when in a forward bending position.

Thoracolumbosacral brace (TLSO): an underarm brace of molded plastic fitting from below the rib cage to the lower pelvis to correct thoracolumbar and lumbar curves. This brace is also worn 23 hours per day until skeletal maturity.

Boston brace: a type of corset with metal stays that is a more comfortable type of brace for scoliosis than molded plastic.

Surgical Fusion: includes the use of instrumentation and bone grafts to maintain internal fixation to correct severe deformities (greater than 45 degrees). The newer instruments no longer require postoperative casting, but immobility after surgery is maintained through bracing. The instruments include:

Harrington rods: metal rods connected by wires to the vertebrae.

Luque rods: flexible L-shaped metal rods fixed by wires to the bases of the spinous processes.

Dwyer instrumentation: a titanium cable fixed by screws to the vertebrae.

Cotrel-Dubousset (CD) procedure: bilateral segmental fixation using 2 rods and multiple hooks.

Electrical Stimulation: an electrical pulse transmitted to muscles on the convex side of the curve causing muscles to contract to straighten the spine. May be used for mild to moderate curves, but the effectiveness of this treatment is not well documented.

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Musculoskeletal impairment (curvature of spine).

Defining Characteristics: (Specify: imposed restrictions of movement by medical protocol of corrective device [brace, traction], bed rest and inability to purposefully move within the physical environment following surgery or with halo traction.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: physical immobilization, traction, or brace and altered sensation and circulation, surface electrical stimulation.)

Defining Characteristics: (Specify: change in skin color and temperature, skin irritation at stimulation, brace, redness on areas from prolonged pressure, break in skin from surgical correction or implantation of stimulators.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of immobilization and restricted movement from spinal curvature.

Defining Characteristics: (Specify: environmental and stimulation deficiencies, difficulty participating in self-care and social activities with long-term continuous brace use.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about correction of functional or structural scoliosis.

Defining Characteristics: (Specify: request for information about treatments for scoliosis, application of brace and surgical procedure to correct scoliosis.)

Goal: Clients will obtain information about scoliosis by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding of scoliosis and the treatment plan.

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

Assess knowledge of deformity, cause and treatments. Teach parents and child about functional or structural defect and methods of treatment modalities

Provides information about teaching needs. Promotes understanding of type of defect and treatment protocol to relieve anxiety; functional specific to age of child and severity of the deformity.

Teach parents and child about application, care, and removal of brace or orthoplast jacket, and inform that appliance must be worn for 23 hours/day and may be removed for bathing and exercise.

Teach child exercises to be performed in and out of the brace or other appliance and to perform them daily.

Teach child to maintain proper posture, use shoe lifts, exercises, and other prescribed treatments for functional scoliosis.

(Teach parents and child to use electrical stimulation, application of electrodes, skin protection, connection of leads, operation of machine to be used at night.)

(Teach parents and child of operative procedure planned and preoperative preparation required; reinforce physician information and use pictures, models and drawings to aid in teaching.)

(Prepare parents and child for postoperative care, especially activity restrictions, log rolling, progression to ambulation, use of pillows for proper support, maintaining flat position, and possible use of special bed such as Stryker frame.)

(Teach parents and child of use of safety belt and walker when ambulating; instruct in safety precautions to take for child wearing brace [clear pathways, handrails, performing ADL using aids].)

(Reassure parents and child that physical and occupational therapy will be prescribed after surgery.)

Refer to agencies for assistance such as National Scoliosis Foundation, community support groups. scoliosis is corrected by treating
the underlying problem, and
structural scoliosis is treated
with long-term bracing and
exercising or surgical fixation to
straighten and realign spine.
Provides nonoperative bracing to
prevent progressive curvatures;
higher curves are treated with the
Milwaukee brace and lower curves
with the TLSO brace and both are
worn until growth is complete.
Prevents atrophy of muscle of spine
and abdomen.

Corrects functional scoliosis which is usually caused by poor posture or unequal length of legs.

Provides stimulation to the muscles to prevent progression of curvature.

Provides information about option for internal surgical instrumentation of curves over 45 degrees or those which are rapidly progressing to 45 degrees.

Provides information about what to expect following surgery depending on the type of procedure.

Prevents trauma caused by fall from postoperative weakness, unassisted ambulation, or wearing of brace causing awkwardness in ambulation and ADL performance.

Provides information and support services.

Promotes optimal physical activity.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did clients verbalize about scoliosis and the treatment plan? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED BODY IMAGE

Assist child to adjust to self-

Related to: Biophysical and psychosocial factors of spinal deformity

Defining Characteristics: (Specify: verbal response to actual change in structure of spine, negative feelings about body, dependence on long-term use of brace, feeling of rejection by peers, inability to participate in some activities.)

Goal: Child will experience improved body image by (date and time to evaluate).

RATIONALES

Outcome Criteria

 \checkmark Child expresses feelings about scoliosis and long-term treatment.

 \checkmark Child identifies at least 1 positive thing about his or her body.

NOC: Self-Esteem

INTERVENTIONS

Assess child for feelings about Provides information about status wearing brace, long-term of self-concept and changes in treatments, restrictions in appearance. lifestyle, inability to keep up with peers and participate in activities. Encourage expression of feelings and Provides opportunity to vent and concerns and support child's reduce negative feelings about communications with parents, peers changes in appearance and and teachers. appliance. continuing wearing of an Maintain positive environment and Enhances body image and promote activities that are allowed confidence, and promotes trust (sports, play, games). and respect of child. Assist with plan for independence in Promotes independence and ADL, application and removal of adjustment to appliance. appliance, selection of shoes and clothing to wear such as T-shirt.

Promotes positive self-image and

perception of short leg, use of appliance and effect on appearance. Suggest open communication with

school nurse and teacher. Reassure parents and child that most activities are allowed with use of appliance.

Assist child to type of clothing to cover appliance that is stylish and has peer acceptance.

Help child find ways to inform others about wearing appliance.

Teach child of activity restrictions that include progression from quiet activities to involvement in those to avoid: contact sports, bike riding, driving, skating, or those that may result in a fall if surgery has been done. realistic view of appearance.

Promotes adaptation to school
within activity limitations.
Promotes positive feelings about
treatment and restrictions
imposed by the deformity.
Enhances appearance and body
image.

Assist child in dealing with questions and curiosity of others about differences caused by deformity.

Prevents injury following surgical correction of the deformity.

NIC: Self-Esteem Enhancement

Evaluation

(Date/time of evaluation of goal)

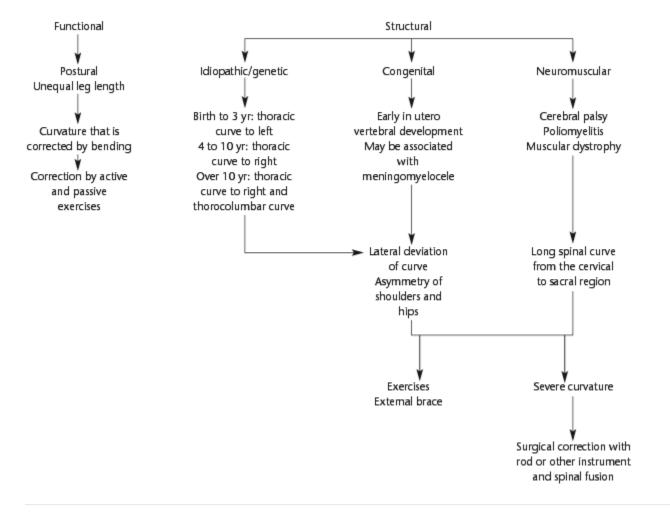
(Has goal been met? Not met? Partially met?)

(What feelings about scoliosis and treatment did child verbalize? What positive thing about body did child identify? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR SCOLIOSIS





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CHAPTER 6.9 - TALIPES

INTRODUCTION

Talipes (club foot) is a congenital disorder of the foot usually with ankle involvement characterized by a twisting out of a normal position that is unable to be manipulated into a different position. The deformity is typed and named according to the position of the foot and includes talipes varus (foot inversion), talipes valgus (foot eversion), talipes equinus (plantar flexion), and talipes calcaneus (dorsiflexion). Most are a combination of these with the most common deformity known as talipes equinovarus (inversion and plantar flexion of the foot). The defect may occur alone or in association with other congenital syndromes or defects.

MEDICAL CARE

Foot/Ankle X-ray: reveals abnormal bone deformity or distortion.

Casting Surgical Correction

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Musculoskeletal impairment (talipes deformity).

Defining Characteristics: (Specify: imposed restrictions of movement by medical protocol of corrective device, serial cast application.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: physical immobilization by cast(s), internal factors of altered circulation, sensation by cast pressure.)

Defining Characteristics: (Specify: edema, rapid growth rate, tight cast or appliance, color change and cool skin proximal to cast.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of physical disability (immobilization).

Defining Characteristics: (Specify: delay in performing motor skills typical of age group during cast applications, lack of stimulation while cast is present.)

ADDITIONAL DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about condition.

Defining Characteristics: (Specify: request for information about disorder, its cause and treatment for correction, follow-up care.)

Goal: Parents will gain information about talipes by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of condition of infant.

 \checkmark Parents state the planned corrective treatment.

NOC: Knowledge: Treatment Procedures

INTERVENTIONS

RATIONALES

Assess knowledge of disorder, type of deformity, and if one or both feet are involved; type of immobilization and application and/or care; presence of associated congenital disorders or syndromes.

Teach parents about type of talipes deformity and describe the position of the foot and ankle and the stages of corrective treatment.

Instruct parents in manipulation of feet in one smooth motion, demonstrate and allow for return demonstration.

Teach parents about casting procedure and type of cast applied (midthigh long led) and that new successive casts will be applied q 2 to 3 days for 1 to 2 weeks and then q 1 to 2 weeks with the final cast remaining in place for 4 to 8 weeks.

Teach parents to monitor extremities for color, peripheral pulses, and coolness, and report changes in these circulatory parameters.

Teach parents that if conservative treatment fails or child is older, surgery may be needed to correct deformity by releasing ligaments, lengthening tendons, or correcting bone deformity with casting following immobilization of the feet.

Encourage parents to plan for follow-up physician evaluations and cast changes.

Provides information needed to develop plan of instruction to ensure compliance to medical regimen for correction; usually begins in infancy and lasts for 3 to 5 months, and most commonly occurs in males.

Provides information about how the correction is accomplished, maintained, and re-evaluated to ensure the correction and prevent recurrence of the deformity.

Ensures correct positioning of the feet in preparation for immobilization.

Ensures correction by the most reliable method of manipulation and serial casting to stretch tight structures and contract lax structures; frequent castings allow for rapid growth in infant.

Prevents circulation and neurologic impairment from tight casts.

Prepares parents for possibility of surgical correction if manipulation is ineffective after 5 months of treatment.

Ensures compliance over long-term correction of deformity by casting or appliance.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

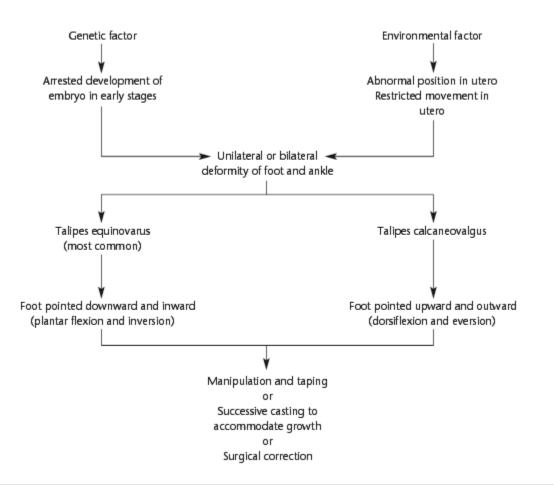
(Has goal been met? Not met? Partially met?)

(What did clients verbalize about infant's condition and the treatment plan? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR TALIPES





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UNIT 7 - NEUROLOGIC SYSTEM

CHAPTER 7.0 - NEUROLOGIC SYSTEM: BASIC CARE PLAN

INTRODUCTION

The neurologic system includes the central nervous system (CNS) consisting of the cerebrum, cerebellum, brain stem, and the spinal cord; the peripheral nervous system consisting of the motor (efferent) and sensory (afferent) nerves; and the autonomic nervous system (ANS) consisting of the sympathetic and parasympathetic systems that provide control of vital body functions. Alterations in the neurologic system affect the process of receiving, integrating, and responding to stimuli that enter the system. This results in disturbances with signs and symptoms dependent on the type and site of the impairment and the normal functioning of the system. The disturbances may be manifested by alterations in consciousness, sensation, or muscle function. Changes in the system also occur as the child develops neurologically and completes the growth and development requirements for adulthood; this system is one of the last to complete development after birth.

NEUROLOGIC GROWTH AND DEVELOPMENT

BRAIN AND SPINAL CORD STRUCTURE

- Skull structure is expansible during infancy and young childhood and becomes rigid with growth in older child.
- Head circumference at birth is 13 to 14 inches in size, increases to 17 inches at 6 months of age, and 18 inches at 12 months.
- Cranial sutures close during infancy (by 6 months), posterior fontanel at 6 to 8 weeks, and anterior fontanel at 12 to 18 months.

• Increases in brain size and cell numbers occur between birth and 1 year of age; growth continues with increases primarily in size from 1 year of age until maturity. Weight of the brain at birth is approximately 350 g or 12% of total body weight, doubles by 1 year of age, and is approximately 1,000 g or 2/3 of adult size by 2 years of age, a continual slower pace until adulthood follows with a final size of 2% of total body weight.

- Cortex is 1/2 the thickness of the adult brain at birth and continues to develop and mature with growth.
- Myelinization of nerves and fiber tracts develops rapidly after birth with sensory pathways before motor pathways; continue to develop with growth of the child until reaching completion in late adolescence.
- Myelinization of nerve tracts follows a cephalocaudal and proximodistal sequence that allows for progressive neuromotor function; begins with cranial nerve fibers and spinal cord nerve fibers and then proceeds to brain stem and corticospinal nerve tracts.
- At birth, spinal nerves are attached to the cord in a horizontal position in relation to the vertebral column; with growth, lower nerves are directed more downward, and sacral and coccygeal nerves are directed in a vertical direction while cervical nerves remain in a horizontal position.

SENSORY AND MOTOR FUNCTION

• As the neurologic system develops, integrated functions of consciousness, mentation, language, motor function, sensory function, and bowel and bladder function develop to completion.

• Infant has reflexive responses and learns to bring responses under conscious control with growth and development of cortex—areas of cerebral development correspond to the development of intellect, control of attention span, and responses to stimuli.

• Neuromuscular maturity and myelinization of spinal cord promote walking by the age of 2 with skills perfected through preschool years.

• Gross and fine motor development and coordination develop by age 3 for most activities and continue with growth; physical strength and endurance continue to develop throughout school age.

• At birth, response to sound is present with ability to locate and identify sounds as myelinization of auditory pathways beyond the midbrain occurs; curvature of the external equal develops to adult position by 3 years of age.

- Hearing fully developed by 5 months of age; child proceeds to listen and react to sounds and understand words by 1 year of age.
- Sense of taste, smell, and touch are present at birth; responses to strong odors, sour solutions, pin prick apparent.
- In the infant, ciliary muscles are immature, which limits accommodation and the ability of the eye to fixate on an object for a period of time.
- Macula and muscles develop with growth.
- Response to color by 1 to 2 months, color vision at 6 months.
- Eye movement coordination by 3 months, function matures at 6 months.
- Binocular vision by 4 months, tear glands function by 4 months.
- Depth perception by 6 to 9 months, detail perception by 8 months.
- Peripheral vision by 1 year of age.
- Permanent iris color by 18 months of age.
- Visual acuity matures at 6 years of age.

Infant: 20/100 to 20/400 (technique dependent)

- 2 years: 20/40
- 4 years: 20/30

School-age: 20/20

• Body temperature regulation unstable at birth with decrements and improved regulation taking place with maturity

Infant: 99.4 to 99.5 degrees F

Toddler: 99.7 to 99 degrees F

Preschool: 99 to 98.6 degrees F

School-age: 98.6 to 97.8 degrees F

• Length of sleep time decreases from infancy throughout childhood; amount of REM sleep is 20% compared to 50% in infancy, non-REM sleep increases with age; length of the sleep cycle increases from 50 minutes in the infant to 90 minutes in later childhood, number of hours decrease with age.

NURSING DIAGNOSES

HYPERTHERMIA

Related to: Illness or trauma.

Defining Characteristics: (Specify: increase in body temperature above normal range, flushed skin, warm to touch, increased respiratory rate, tachycardia, seizures/convulsions.)

Related to: Dehydration.

Defining Characteristics: (Specify: increase in body temperature above normal range, flushed, dry skin, warm to touch, increased respirations, pulse, oliguria, poor skin turgor, sunken eyeballs.)

Goal: Child's temperature will be decreased by (date and time to evaluate).

Outcome Criteria

 \checkmark Return of body temperature to (specify).

 \checkmark Child's temperature will remain < (specify for child).

NOC: Thermoregulation

INTERVENTIONS

Assess temperature via axillary method in infants and children to age 5 years, oral in children 5 to 6 years and older, depending on the individual child's ability to safely and accurately keep the thermometer in their mouth; check for malaise or lethargy and compare to normal ranges for age or low grade or high elevations associated with specific microorganisms or diseases.

RATIONALES

Provides information about temperature changes caused by high susceptibility to fluctuations in infants and young children as their regulatory function is unstable (regulated in the hypothalamus); temperature in infant and young child responds to infection with higher and more rapid elevations and may become overheated as environmental temperatures change or from activity, crying and emotional upsets since regulating mechanism Assess temperature q 1 to 2h for sudden increase in presence of any temperature elevation or illness.

Teach parents that the main reason for treating a fever is discomfort; two antipyretic drugs of choice: Acetaminophen and nonsteroidal antiinflammatory drugs such as Ibuprofen; administer as ordered in the form (liquid, tablet) that is appropriate for the age of the child and illness severity.

Teach that cooling measures such as lightweight clothing, skin exposure, decreasing room temperature and cool, wet compresses to skin are only effective if given one hour after antipyretic.

Instruct that sponging/tepid baths are not recommended for children with fever.

Encourage parents to provide additional fluid.

Treat shivering by warming the body with clothing (especially extremities), increasing room temperature, and warm baths.

Promote rest and provide a stress-free environment, hold and rock infant/ child if needed.

For hyperthermia only: cooling measures such as cooling blankets/mattresses and tepid tub baths are utilized; water temperature should be 1 to 2 degrees less than the child's temperature; recheck temperature 30 minutes after intervention; discontinue if shivering occurs.

Teach parents to take oral and axillary temperature and allow for return demonstration; instruct in use of digital thermometers and plastic strips. immature until age 8. Sudden temperature elevation may induce a seizure.

Reduces temperature; (lowers set point); prevents possible toxicity caused by accumulation if given too often, may be administered by tablet, liquid, chewable, suppository (action of drugs).

Antipyretics lower the set point, enabling cooling measures to be effective.

Utilized only for child with hyperthermia caused by elevated set point; hyperthermia is a condition where body temperature exceeds set point-more heat created than eliminated caused by internal factors such as hyperthyroidism, cerebral dysfunction, "malignant hyperthermia" (a reaction to anesthesia), or external factors (heat stroke). Maintains hydration when fluids are

lost through fever or hyperthermia. Shivering increases metabolic demands that produce more heat; it is the body's natural mechanism to maintain the higher set point by producing more heat.

Decreases metabolic requirements.

Cooling measures are effective because of normal set point in hyperthermia; antipyretics are not effective.

Allows parents to monitor temperature for elevation when child feels warm.

Teach parents of the difference between fever and hyperthermia and use of antipyretics to reduce fever and cooling baths to treat hyperthermia; instruct in safe use of antipyretics including type, dosage, frequency, form and limitations in 24-hour administration and sponging without use of cold water or alcohol.	Antipyretics given to control fever which is an elevation in set point, and cooling measures given to control hyperthermia which is a temperature that exceeds the set point.
Teach parents to report to physician immediately if: child is less than 2 months old with any fever; fever greater than 40.5° C. (105° F); presence of excessive crying; decreased level of consciousness; seizures; stiff neck; difficulty breathing; or if child has underlying illness.	Prevents severe complications from elevated temperature that persists and is not relieved by medications; physician intervention to initiate or change treatment may be necessary.
Inform parents that temperature may become elevated without the presence of a serious illness.	Reduces parental anxiety if unduly concerned about fever.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is child's temperature?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED SLEEP PATTERN

Related to: Illness.

Defining Characteristics: (Specify: interrupted sleep, temperature elevation, irritability, restlessness, listlessness, fatigue, weakness, nightmares.)

Related to: Environmental changes.

Defining Characteristics: (Specify: hospitalization, interrupted sleep, separation anxiety, stimuli overload, lack of privacy, breaks in bedtime rituals or routines.)

Goal: Client will be able to sleep without interruption by (date and time to evaluate).

Outcome Criteria

 \checkmark Client goes to bed without difficulty.

 \checkmark Client sleeps (specify number of hours) without waking.

 \checkmark Client appears rested.

NOC: Sleep

INTERVENTIONS

Assess sleep patterns and changes, nap times and frequency, sleep problems, pattern of awakenings and reason.

Assess presence of temperature elevation, restlessness caused by pain, dyspnea, other signs and symptoms of an illness. Assess for fatigue, irritability, weakness, lability, yawning. Place infant (0-6 months) on back or side-lying position for sleep, utilizing positioning aids such as rolled blankets to maintain desired position; infants with gastroesophageal reflex, premature infants, and infants with specific upper airway problems may sleep in prone position; premature infants benefit developmentally from the prone position as it often facilitates flexion, and is soothing.

Avoid waking/interrupting sleep for feedings or caregiving.

Offer snack and preferred toy at bedtime for child, follow home routines for time, night light, reading a story at bedtime, playing,

RATIONALES

Provides information about fulfillment of sleep needs related to age requirements: infants need 10 to 20 hours/24 hours with a routine and sleep through the night by 5 months of age; toddlers need 12 hours/night and 2 naps which gradually changes to 10 hours/night and 1 nap; preschoolers need 10 hours/night with or without a nap; school-age children need 10 hours/night; wakenings may be caused by anxiety; nightmares and the absence of good sleep habits may create sleep problems. Provides possible reasons for restlessness, wakenings, and sleep/rest deficit.

Results of sleep deficit or deprivation, overactivity. Recent research has led the American Academy of Pediatrics to recommend these positions which have shown to decrease the incidence of SIDS (sudden infant death syndrome).

Provides comfort for sleep without interruptions. Promotes comfort and familiar bedtime pattern. tapes of music.

Allow time for quiet play before bedtime. Provide soothing comfort if child has a nightmare and explain bad dream, stay until child returns to sleep. Promote naps during day if such a routine has been established. Provide environment that is quiet, calm and warm; proper clothing, covers, and diaper change as needed. Try to avoid painful procedures prior to bedtime when possible. Encourage parent to stay with child at night if possible or hold, rock, or stroke child "until" asleep. Discuss with parents the amount of sleep needed by infant/child. Teach parents: Infant: feed, change diaper, dress appropriately, place in side-lying or supine position.Toddler: remind of bedtime or nap in advance, offer snack, allow preferred toy in bed, can assist to prepare for bed.Preschool: provide own sleeping area, night light, story or music.School-age: provide time before sleep for talk, review activities of day. Teach parents to maintain same sleep schedule, set limits, reinforce appropriate behaviors. Teach child relaxation techniques such as tensing each part of the body and slowly relaxing each part, taking deep breaths, repeating a word that the child associates with relaxation (specify). Assist parents to solve chronic sleep problems after acute illness is resolved and child is at home; suggestions may include: a bedtime ritual; a consistent bedtime and location; use of a favorite blanket or toy to increase feelings of security; avoid use of bed as punishment; avoid feedings/drinks at night; if child consistently awakens at night, implement strategies which promote gradual change such as: entering room without picking up the

Avoids overstimulation before bedtime. Provides security and explanation to encourage child to sleep without fear. Follows usual age dependent nap/rest pattern. Promotes sleep and/or rest periods. Decreases stimuli that prevent rest and sleep. Promotes sleep and relaxation with a familiar person giving care. Promotes parental understanding of sleep needs which are age dependent. Provides suggestions that may assist to establish bedtime rituals. Promotes sleep pattern and avoids sleep problems. Promotes rest and induces sleep. Routines greatly promote the child's sleep quality and quantity; promote the child's feelings of security; improve the quality of the parent-child relationship; promote the child's own natural body defenses.

child, then leaving for progressively longer periods of time until the child falls asleep by him/herself.

NIC: Sleep Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did child go to bed without problems? How long did client sleep? Does client appear rested? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED THOUGHT PROCESSES

Related to: Physiologic changes.

Defining Characteristics: (Specify: altered attention span, disorientation to time, place, person, circumstances and events, changes in consciousness, hallucination, cognitive dissonance, inappropriate affect, memory deficit.)

Goal: Client will experience improved thought processes by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify for client, e.g., will have decreased ICP; will be alert and oriented \times 3; will deny hallucinations, etc.)

NOC: Cognitive Orientation

INTERVENTIONS Assess history for neurologic conditions or infection, cognitive functioning.	RATIONALES Provides information about reason for mentation changes.
<pre>Assess for increased ICP and effects on orientation mentation, intellectual function, motor function. Perform neurologic checks q 2h including PERL, orientation, grip</pre>	Provides information about increased ICP which results from brain edema, shift or distortion and brain hypoxia. Provides data about changes in thought processes that
and grasp and pain response, presence of irritability, confusion, memory loss; include cranial nerve function if indicated. Elevate head of bed 30 degrees and	indicate serious pathology. Promotes blood flow to brain and
maintain proper head and neck	prevents hypoxia.

alignment.

- Provide toys and stimulation that are age-appropriate and modified for illness.
- Limit sensory and motor expectations if unable to maintain thought processes and independence in activities.
- (Inform parents of reason for loss of thought processes and temporary nature of this condition.)
- Encourage parents to expose infant/ child to stimulation, toys, and play activities and praise desired behaviors indicating orientation.
- Promotes developmental level within prescribed limitations to improve orientation and attention span. Prevents frustration and insecure feelings.
 - Relieves doubts and anxiety
 about mental status of infant/
 child.
 Promotes developmental task
 achievement.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide information related to the outcome criteria chosen, e.g., what is ICP? Describe level of alertness and orientation, etc.)

(Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 7.1 - HYDROCEPHALUS

INTRODUCTION

Hydrocephalus is the enlargement of the intracranial cavity caused by the accumulation of cerebrospinal fluid in the ventricular system. This results from an imbalance in the production and absorption of the fluid which causes an increase in intracranial pressure as the fluid builds up. Fluid may accumulate as a result of blockage of the flow (noncommunicating hydrocephalus) or impaired absorption (communicating hydrocephalus). As the head enlarges to an abnormal size, the infant experiences lethargy, changes in level of consciousness, lower extremity spasticity and opisthotonos and, if the hydrocephalus is allowed to progress, the infant experiences difficulty in sucking and feeding, emesis, seizures, sunset eyes, and cardiopulmonary complications as lower brain stem and cortical function are disrupted or destroyed. In the child, increased intracranial pressure (ICP) focal manifestations are experienced related to space-occupying focal lesions and include headache, emesis, ataxia, irritability, lethargy, and confusion. Treatment may include surgery to provide shunting for drainage of the excess fluid from the ventricles to an extracranial space such as the peritoneum or right atrium (in older children) or management with medications to reduce IC if progression is slow or surgery is contraindicated.

MEDICAL CARE

Anticonvulsants: to interfere with impulse transmission of cerebral cortex and prevent seizures.

Antibiotics: culture and sensitivity dependent for shunt infections such as septicemia, meningitis, ventriculitis or given as prophylactic treatment.

Skull X-ray: reveals increasing head enlargement, widening of suture lines and fontanelles.

Magnetic Resonance Imaging: reveals presence of hydrocephalus.

Echoencephalogram: reveals comparison of ratio of ventricle to cortex.

Ventriculogram: reveals size of ventricles and patency of a shunt if present.

Surgical Management: therapy of choice in almost all cases. Includes use of ventriculo-peritoneal shunt (VP), ventriculo-atrial shunt (VA), temporary ventriculostomy.

Electrolyte Panel: reveals changes indicating dehydration or losses from diuretic therapy.

Complete Blood Count: reveals increased WBC if infection, presence of dehydration.

COMMON NURSING DIAGNOSES

See EXCESS FLUID VOLUME

Related to: Compromised regulatory mechanism shunt placement-ventriculoatrial or VP.

Defining Characteristics: (Specify: decreased cardiac output, change in respiratory pattern, tachycardia, tachypnea, dyspnea, weight gain, chest pain, cardiac arrhythmias, pulmonary congestion.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: postoperative vomiting or diarrhea, use of diuretics, altered intake, thirst, dry skin and mucous membranes.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food/feedings.

Defining Characteristics: (Specify: advanced stage of hydrocephalus, postoperative vomiting, NPO status.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Physical immobilization.

Defining Characteristics: (Specify: decreased movement of head, disruption of skin surface by surgical procedure [shunt insertion] or diagnostic procedure.)

See HYPERTHERMIA

Related to: Illness (infection).

Defining Characteristics: (Specify: increase in body temperature above normal range.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of disorder or disability.

Defining Characteristics: (Specify: altered physical growth, mental retardation, delay or difficulty in performing motor, social skills typical of age, dependence.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: threat to or change in health status; threat to or change in environment [hospitalization].)

Defining Characteristics: (Specify: increased apprehension that condition of infant might worsen or condition may develop in child as a complication, expressed concern and worry about preoperative preparation and the surgical procedure, possible or actual physical, neurologic and mental deficits.)

Goal: Client will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize feeling better.

 \checkmark Anxiety is decreased.

NOC: Anxiety Control

INTERVENTIONS

Assess source and level of anxiety and need for information and support about condition and impending surgery.

- Allow expressions of concern and opportunity to ask questions about condition and recovery of ill infant/child.
- Communicate therapeutically with parents and answer questions calmly and honestly.
- Encourage parents to remain involved in care and decision-making regarding infant/ child.
- Encourage parents to stay with infant/child or visit when able if hospitalized, assist in care (hold, feed, diaper) and make suggestions for routines and methods of treatment.
- When surgery is planned, answer all questions from parents and child with honesty; refer to physician for answers and explanations if needed.

Prepare child/parents for diagnostic tests and potential surgical procedures.

Explain reason for and what to expect for each procedure or type of therapy; use drawings and pictures, video tapes for child.

Teach parents and child (age dependent) about reason for and type of surgery to be done, site and dressings, time of surgery and

RATIONALES

Provides information about severity
 of anxiety and need for
 interventions and support; allows
 for identification of fear and
 uncertainty about condition and/or
 surgery and treatments and
 recovery; guilt about condition,
 possible loss of infant/child or of
 parental responsibility.
Provides opportunity to vent
 facilings accurs information prodod

feelings, secure information needed to reduce anxiety.

Promotes calm and supportive environment.

Promotes constant monitoring of infant/child for improvement or worsening of symptoms.

Allows parents to care for and support child instead of becoming increasingly anxious because of absence from child and wondering about infant/ child's condition.

Promotes supportive environment and reduces anxiety caused by fear of unknown.

Promotes reduction in anxiety if they have knowledge of expectations.

Reduces fear which causes anxiety.

Provides information about surgery and desired effects as well as possible residual effects.

length of time of procedure, preoperative care and treatments. Clarify any misinformation and answer Prevents unnecessary anxiety all questions honestly and in simple understandable language. Teach about shunt placement and reason; possible future revision of shunt placement, signs and symptoms of shunt complication or malfunction.

resulting from inaccurate information or beliefs. Shunt is placed to by-pass an obstruction or remove excess cerebrospinal fluid that predisposes to increased ICP; a shunt revision may be done to treat shunt complication such as infection or obstruction or as a result of child growth.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents and child verbalize feeling better? Did clients verbalize decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: sensory, integrative and effector dysfunction preoperatively.)

Defining Characteristics: (Specify: neuromuscular changes, neurosensory changes, behavioral changes, increased ICP, CSF accumulation, vital signs changes, seizure activity.)

Goal: Client will not experience any injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Head circumference remains (specify cm).

 $\sqrt{}$ Client will not demonstrate (specify several signs of increased ICP to observe for, e.g., irritability, bulging fontanels, sunset sign, vomiting, headache, seizures).

NOC: Risk Detection

INTERVENTIONS

Assess for rapidly increased circumference of head, tense, bulging fontanels, widening suture lines,

RATIONALES Indicates increasing ICP in infant/ small child.

irritability, lethargy, "cracked pot" sound percussion, sunset sign, opisthotonos, spasticity of lower extremities, seizures, high-pitched cry, distended scalp veins, changes in normal feeding patterns. Assess for early signs including: headache, nausea, vomiting, diplopia, blurred vision, seizures, irritability, restlessness, decrease in school performance, decreased motor performance, sleep loss, weight loss, memory loss progressing to lethargy and drowsiness. Late signs: decreased level of consciousness, decreased motor response to commands, decreased response to pain, change in pupils, posturing, papilledema. Perform neurologic and vital sign assessment q 4h or as needed (specify). Position with head elevated 30 degrees

and support head when handling or changing position; monitor skin integrity with position change. Carry out seizure precautions including

padding of crib/bed, remove toys and objects from bed, maintain suction and oxygen at bedside, note and report characteristics of seizure.

Support an enlarged head by cradling it in an arm when holding, place infant on a pillow when moving, move head and body of infant at the same time.

Teach parents signs and symptoms of increased ICP and changes to report to physician (specify).

Inform parents that condition is lifelong and monitoring and follow-up care on a regular basis is required.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

Indicates increasing ICP in children with symptoms related to cause of hydrocephalus.

- Provides data indicating an increasing ICP causing decreased respirations, increased blood pressure and pulse.
- Promotes drainage of CSF and reduces accumulation of CSF; infant may not be able to lift and move head.
- Prevents injury to self during seizure activity caused by increased ICP and to treat apnea during seizure activity.
- Protects infant's head from trauma and neck from strain.

Promotes knowledge of risk of developing increased ICP and encourages preventive measures. Provides realistic and honest information that promotes optimal health and function for the infant/child.

(Provide information related to the outcome criteria chosen, e.g., is child irritable? Are fontanels of infant bulging? Does child exhibit sunset sign? Complain of headache? Has there been any vomiting or seizure activity?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: shunt placement and potential complications of shunt functioning.)

Defining Characteristics: (Specify: increased ICP, kinking or plugging of shunt tubing, separation of tubing, changing of position of tubing, obstruction of shunt, displacement with growth.)

Goal: Client will not experience any injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Client will remain alert without signs of increased ICP.

NOC: Risk Control

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INTERVENTIONS	RATIONALES
Assess for signs and symptoms of increased ICP, swelling along shunt tract; note presence/severity of headache and neck pain; behavior changes (lethargy, irritability), physical changes (full fontanel, nausea, vomiting, edematous eyes, tender, swollen abdomen).	Provides data that indicates shunt malfunction.
Note vomiting, drowsiness, irritability, swelling at pump site, redness, exudate and temperature of child.	Indicates shunt blockage.
Position carefully on nonoperative side postoperatively; maintain bed position and activity level as ordered depending on shunt dynamics.	Prevents trauma to surgical site; maintain shunt patency.
<pre>Instruct parent on hydrocephalus and shunt placement; teaching should include: definition of hydrocephalus (brain anatomy), causes, diagnostic tests, treatments, signs of shunt malfunction and infection, interventions and proper notification of health professionals, and documentation; supplemental written materials are important; emphasize the importance of early identification of infection/malfunction and prompt notification.</pre>	Promotes understanding of illness/treatments which may decrease anxiety; knowledge of prompt treatment of complications often life- saving.

Teach parents about need for bowel elimination at least every 2 days and steps to take to ensure bowel movement.	Prevents complications associated with ventriculo- peritoneal shunt.
Inform parents of agencies for guidance and support such as National Hydrocephalus Foundation.	Provides assistance with management of child with hydrocephalus.
Discuss and encourage parents to treat	Promotes growth and developmen

child as member of family and instruct in activities to be avoided such as rough contact sports.

nt. nce with child with and development and feeling of belonging.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide information related to the outcome criteria chosen, e.g., is child irritable? Are fontanels of infant bulging? Does child exhibit sunset sign? Complain of headache? Has there been any vomiting or seizure activity?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Invasive procedure of shunt insertion.

Defining Characteristics: (Specify: elevated temperature, swelling, redness at shunt tract or operative site, nausea, vomiting, lethargy, excessive drainage on dressing, poor feeding.)

Goal: Client will not experience any infection by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ Temperature remains <99° F.

 \checkmark WBC levels (specify maximum for age).

NOC: Risk Detection

INTERVENTIONS

RATIONALES

Assess site for inflammatory process, temperature for elevation, WBC for increases, characteristics of drainage on dressings.

Provides data indicating presence or potential for infection which affects sh function. infection which affects shunt

- Follow principles of asepsis when performing procedures such as dressing changes. Monitor temperature q 4h.
- Avoid positioning head of valve site for at least 2 days postoperatively.
- Teach about signs and symptoms of infection of site and shunt tract and to notify physician if noted.
- Teach parents about wound care and dressing change, emphasize importance of good handwashing techniques.

Prevents transmission of microorganisms to shunt site. Elevation of temperature indicates infection.

- Alleviates the risk of infection.
- Promotes early detection of infection that may occur for up to 1 to 2 months after shunt insertion. Provides clean, sterile dressings when soiled or wet.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

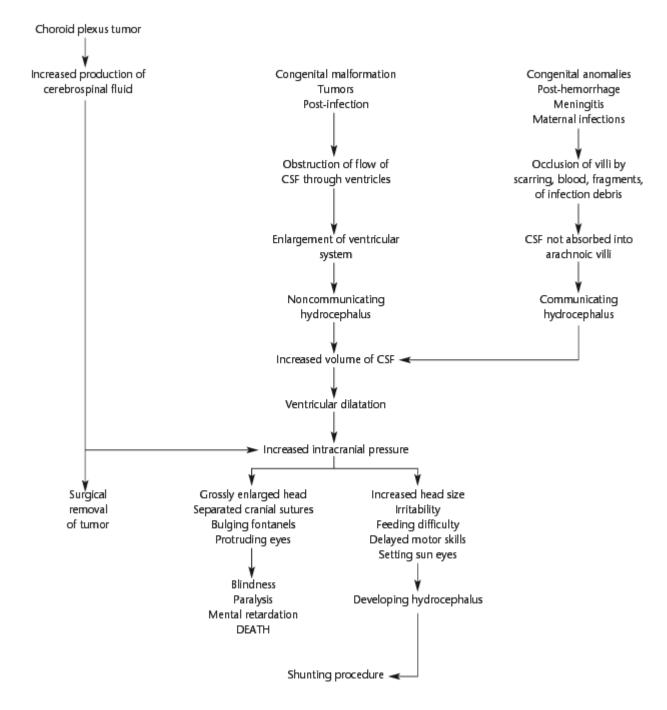
(Has goal been met? Not met? Partially met?)

(What is temperature? What is WBC level-include date and time of test.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HYDROCEPHALUS

HYDROCEPHALUS



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CHAPTER 7.2 - BRAIN TUMOR

INTRODUCTION

A brain tumor is a solid tumor that may be benign, malignant, or a metastatic growth from a tumor in another part of the body. Most central nervous system tumors occur in the cerebellum or brain stem and cause increased intracranial pressure and the symptoms associated with it. Other tumors occur in the cerebrum. A malignant brain tumor is the second most common type of cancer in children and has a poor prognosis as the tumor usually enlarges and becomes advanced before signs and symptoms appear or are detected as they are easily missed. Signs and symptoms are site and size dependent. Brain tumors are most prevalent in children 3 to 7 years of age. Treatment includes surgery, although total removal is not usually possible, chemotherapy, and radiation, which may be done to decrease the size of the tumor before surgery. One or a combination of these procedures may be done with each resulting in possible residual neurologic deficits.

MEDICAL CARE

Analgesics/Antipyretics: for headache to reduce fever and to decrease pain.

Diuretics (Osmotic): mannitol to induce diuresis with a hypertonic solution to prevent reabsorption of water by the glomeruli and decrease cerebral edema.

Antibiotics: specific to microorganisms identified by culture and sensitivities to treat infection or given to prevent infection.

Anti-inflammatories: cortisone to reduce the inflammation process in brain.

Saline Solution: given as eye drops or eye irrigation to prevent corneal ulceration.

Stool Softeners: for easier elimination to prevent constipation and Valsalva's maneuver which increase intracranial pressure.

Computerized Tomography Scan (CT): reveals changes in position of brain parenchyma, ventricles, and subarachnoid space caused by tumor growth.

Stereotactic Surgery: use of CT/MRI to reconstruct brain tumor three-dimensionally to accurately remove it surgically.

Laser Therapy: vaporization of tumor tissue.

Radiotherapy: use of radiation to shrink tumor size.

Chemotherapy: used to treat malignant tumors.

Cerebral Angiogram: reveals vascularity and blood supply to the tumor before surgery.

Magnetic Resonance Imaging (MRI): reveals tumor growth and size before, during, and after treatment.

Electrolyte Panel: reveals changes indicating dehydration or losses from diuretic therapy.

Complete Blood Count: reveals increased WBC if infection present.

Urinalysis: reveals increased sp.gr. in presence of dehydration.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Illness.

Defining Characteristics: (Specify: increase in body temperature above normal range, presence of infection [meningitis or upper respiratory], surgical procedure [anesthesia, brain stem or hypothalamus area].)

See DISTURBED SLEEP PATTERN

Related to: Sensory alternations.

Defining Characteristics: (Specify: lethargy, restlessness, irritability, disorientation, coma, frequent napping.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: vomiting, altered intake, diuresis with use of diuretic, diabetes insipidus development, thirst, dry skin and mucous membranes.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: vomiting, nausea, choking and possible aspiration with facial paralysis or edema, refusal to eat or drink, gavage feedings, depressed gag reflex.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: inability to purposefully move within physical environment, impaired coordination, loss of balance, decreased muscle strength and control spasticity, hypo or hyperreflexia, paralysis, general weakness, ataxia following surgery.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of disorder following surgery/other.

Defining Characteristics: (Specify: delay or difficulty in performing skills typical of age group [motor, social or expressive], inability to perform self-control activities appropriate for age behavior and/or intellectual deficits, presence of somnolence syndrome.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Biologic injuring agents.

Defining Characteristics: (Specify: verbal descriptor of pain, headache in frontal or occipital area that is worse in the morning and becomes worse if head lowered or with straining, increased VS, restlessness, hostility, inability to relax.)

Goal: Child will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Child rates pain as less than (specify pain rating and scale used).

NOC: Pain Level

INTERVENTIONS

RATIONALES

Assess severity of headache, recurrence and progressive characteristics, precipitating factors and length of headache. Administer analgesic (specify) to treat or anticipate headache based on assessment. Provide toys, games for quiet play (specify). Apply cool compress to head for low to moderate pain. After surgical intervention, opioids (morphine sulfate) may be initially used. Assess for side effects such as sedation and respiratory depression; use Naloxone to reverse. Determine the child's understanding of the word "pain" and ask family what word the child normally uses. Use a pain assessment tool appropriate for age and developmental level to identify intensity of pain. Plan a preventive approach to pain management around the clock; observe for signs of pain, both

Provides information regarding
 presence of tumor as headache
 is a most common symptom in
 child.
(Action of drug.)

Provides diversionary activity
 to detract from pain.
Provides comfort and relief
 from headache, decreases
 facial swelling, if present.
Side effects occur rarely,
 opioids can be given safely
 with appropriate monitoring.

Promotes better communication between child/family and nurse.

Promotes early identification of pain which enhances pain relief measures.

physiologic and behavioral. Teach parents and child about analgesics, to administer in anticipation of headache and type to give (sustained release) (specify) and that it will help to control headache.	Controls pain before it becomes severe (action of drug).
Encourage child to restrain from coughing, sneezing, or straining during defecation.	Prevents straining that precipitates or intensifies headache.
Assist parents to develop activities that will not precipitate or increase headache pain.	Promotes stimulation for child's development needs.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Sensory, integrative, and effector dysfunction.

Defining Characteristics: (Specify: neuromuscular changes, neurosensory changes, behavioral changes, increased ICP, seizure activity, vital signs changes.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Child does not exhibit increased ICP. Participates in teaching about treatment options (specify for child).

NOC: Risk Detection

INTERVENTIONSRATIONALESAssess head circumference in the
infant/small child for increases as
fluid obstruction caused by tumor
will increase head size.Provides data indicating an
increase in ICP as tumor grows
with a poorer prognosis because
tumor size becomes large before
diagnosis is made.Assess vital signs includingProvides changes indicating

increased BP, decreased pulse
pressure, pulse and respirations;
take for 1 full minute when
monitoring pulse and respirations.
Assess changes in gross and fine
motor control, weakness, ataxia,
spasticity, paralysis or change in
balance, coordination.
Assess changes in vision (visual
acuity, strabismus, diplopia,
nystagmus), head tilt, papilledema.
Assess for irritability, lethargy,
loss of consciousness or coma,
fatigue, napping.
Assess for increased ICP including

Assess for increased ICP including irritability, poor feeding, vomiting, head enlargement, lethargy, high-pitched cry (infant) or vomiting, diplopia, behavioral changes, change in VS, seizure activity.

Alter environment by padding bed or crib, reduce light and stimulation. Place in position of comfort with head elevated.

Teach parents and child about diagnostic procedures done to evaluate tumor presence; base information on child's age and past experiences (specify).

Inform parents that surgery may be performed to remove the tumor as a reinforcement of physician information and that radiation and chemotherapy may be administered after surgery.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about signs of increased ICP. Did child participate in teaching? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

presence of brain tumor depending on type and location of tumor.

Provides changes in neuromuscular status indicating presence of brain tumor.

Provides changes in neurosensory status indicating presence of brain tumor.

Provides changes in behavior indicating presence of brain tumor.

Provides information about ICP change caused by brain distortion or shifting caused by tumor.

Prevents injury if seizure activity
 possible.
Promotes comfort and decreases
 increased ICP by gravity.
Promotes understanding of
 procedures to reduce.

Prepared for surgery and possible postoperative therapy with information limited to sensitive, hopeful explanation; information about postoperative therapy should be postponed until this decision is made after surgery.

ANXIETY

Related to: Change in health status and threat to self-concept.

Defining Characteristics: (Specify: increased apprehension as diagnosis is confirmed and condition worsens, expressed concern and worry about postoperative residual tumor and effects, hair removal before surgery, insomnia, social isolation.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize decreased anxiety.

 \checkmark Child appears calm, without crying or irritability.

NOC: Anxiety Control

INTERVENTIONS	RATIONALES
Assess level of anxiety and need for information that will relieve it following surgery.	Provides information about degree of anxiety and need for interventions and support; allow for identification of fear and uncertainty about surgery and treatments and recovery, guilt about illness, possible loss of child, parental role and responsibility.
Encourage expression of concerns and inquire about condition of ill child and possible consequences and prognosis.	Provides opportunity to vent feelings, secure information needed to reduce anxiety.
Prepare family and/or child for diagnostic tests and surgery. Encourage child to draw a picture of the brain to clarify any misconceptions; encourage use of medical play (dolls, puppets, equipment) after procedures (specify for child).	Promotes understanding which decreases anxiety; may clarify misconceptions and increase feelings of control.
Encourage parents to stay with infant/ child; encourage participation in care of infant/child.	Promotes care and support of child by parents.
If surgery planned, orient to special care unit, equipment and staff (specify how).	Reduces anxiety caused by fear of unknown.
Teach parents and child about hair clipping and that hair will grow back in short period of time, to cover head with cap or scarf temporarily; that there is edema of	Promotes understanding of postoperative appearance to maintain self-image; support self-concept.

the face and eyes after surgery; that a dressing will be applied that completely covers the head; use of a doll with head wrapped in a bandage may be useful in explaining the post-surgical dressing.	
Teach parents and child that after surgery a headache and sleepy feeling may be present for a few days or even lethargy and coma may be present.	Provides an explanation of what to expect after surgery.
Clarify any information in lay terms and use aids that are age related if helpful to child (specify).	Prevents unnecessary anxiety resulting from misunderstanding or inconsistencies in information.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

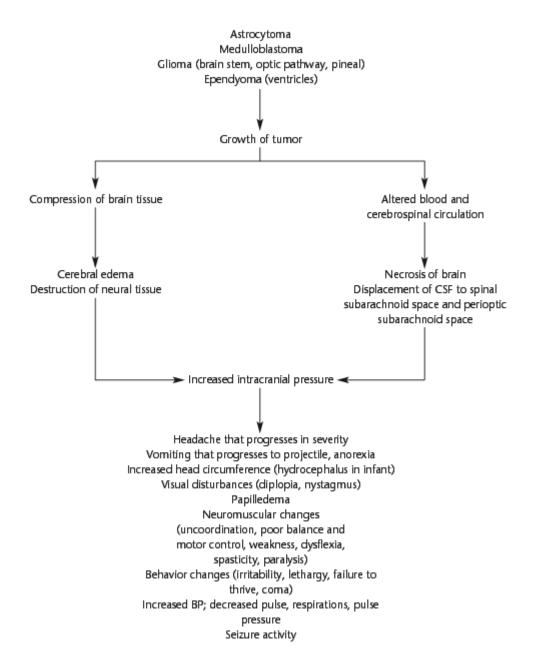
(Has goal been met? Not met? Partially met?)

(Did parents verbalize decreased anxiety? Use quotes. Is child calm and not irritable? Describe behavior.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR BRAIN TUMOR

BRAIN TUMOR



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CHAPTER 7.3 - GUILLAIN-BARRE SYNDROME

INTRODUCTION

Guillain-Barre syndrome (infectious polyneuritis) is an acute inflammation of the spinal and cranial nerves manifested by motor dysfunction that predominates over sensory dysfunction. The actual cause is unknown, but it is associated with a previously existing viral infection or vaccine administration. Neurologic symptoms include muscle cramps and paresthesia with weakness progressing to paralysis. The severity of the disease ranges from mild to severe with the course of the disease dependent on the degree of paralysis present at the peak of the condition. Recovery is usually complete and may take weeks or months. The disease most commonly occurs in children between 4 and 10 years of age. Treatment is symptom-dependent with hospitalization required in the acute phase of the disease to observe and intervene for respiratory or swallowing complications.

MEDICAL CARE

Anti-inflammatory (Corticosteroids): to reduce inflammation process and immune responses; Ibuprofen may or may not be helpful in early stages of disease.

Analgesics/Antipyretics: acetaminophen to relieve pain in muscles or elevated temperature if present.

Stool Softeners: given for easier elimination to prevent constipation and Valsalva's maneuver.

Oxygen Therapy: given with ventilatory support depending on ABGs revealing decreased PO₂ level.

Arterial Blood Gases: reveals O₂ and CO₂ and pH levels as indication of acidosis or respiratory failure or need for oxygen therapy.

Cerebrospinal Fluid Analysis: reveals protein concentration of more than 60 mg/dl and white blood cells of fewer than 10/cu mm.

Plasmapheresis: may be used to shorten length of illness and/or to lessen long-term disability.

COMMON NURSING DIAGNOSES

See DECREASED CARDIAC OUTPUT

Related to: Effects of autonomic dysfunction on cardiac activity.

Defining Characteristics: (Specify: variations in hemodynamic readings [tachycardia, bradycardia, hypotension, hypertension] decreased peripheral pulses, oliguria, cyanosis, pallor of skin and mucous membranes, ECG changes [arrhythmias], diaphoresis, dizziness, orthostatic hypotension.)

See INEFFECTIVE BREATHING PATTERN

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: altered chest expansion, respiratory depth changes, cyanosis, abnormal ABGs.)

See INEFFECTIVE AIRWAY CLEARANCE

Related to: Tracheobronchial obstruction.

Defining Characteristics: (Specify: abnormal breath sounds [crackles, wheezes], changes in rate or depth of respiration, paralysis in chest muscles, tachypnea, cough, dyspnea, inability to clear secretions from airway, inability to swallow secretions, weakness in speech, gag reflex, aspiration.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food, absorb nutrients.

Defining Characteristics: (Specify: anorexia, diarrhea, weakness of chewing and swallowing muscles, dysesthesia of hands with inability to feed self, weight loss, loss of muscle tone, paralysis [ascending].)

See DIARRHEA

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: increased frequency, loose, liquid stools, increased bowel sounds.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: paralysis, inability to purposefully move within physical environment including bed mobility, transfer and ambulation, limited ROM, decreased muscle strength and control, trauma from falls.)

See HYPERTHERMIA

Related to: Illness causing autonomic instability.

Defining Characteristics: (Specify: increase in body temperature above normal range or decrease below normal range, warm or cool to touch.)

ADDITIONAL NURSING DIAGNOSES

IMPAIRED URINARY ELIMINATION

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: paralysis, retention.)

Goal: Child will have improved urinary elimination by (date and time to evaluate).

Outcome Criteria

 \checkmark Bladder is not palpable.

 \checkmark Intake equals output.

NOC: Urinary Elimination

INTERVENTIONS

RATIONALES

Assess continuing extent of paralysis and effect on urinary elimination. Assess for I&O q 4 to 8h and palpate bladder q 2h; assess for

cloudy, foul-smelling urine.

Provide urinary elimination rehabilitation program; perform Crede's maneuver in gentle fashion if indicated.

Catheterize as last resort; maintain indwelling catheter if needed to maintain elimination. Instruct parents in program to rehabilitate urinary function (specify).

Teach parents to maintain fluid intake and monitor output in relation to intake. Inform to report any reduction or absence of urinary elimination.

Provides information about effect of motor weakness that travels upward from extremities. Provides monitoring for I&O ratio and presence of urinary retention, UTI as paralysis progresses. Promotes urine elimination and return to normal pattern as soon as possible.

Relieves distention and retention.

Promotes urinary elimination and return to baseline pattern without retention and possible urinary bladder infection. Maintains I&O balance and enough intake to encourage urinary output. Prevents complication of neuromuscular impairment of

disease and effect on urinary bladder function.

NIC: Urinary Elimination Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is bladder palpable above symphysis after voiding? What is intake and output? Provide cc's and amount of time.)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: Biologic injuring agent (inflammation of nerves).

Defining Characteristics: (Specify: communication of pain descriptors of discomfort in hands and feet, guarding behavior, alteration in muscle tone, autonomic responses of diaphoresis, VS changes.)

Goal: Child will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Child rates pain as less than (specify pain rating and scale used).

NOC: Pain Level

INTERVENTIONS

RATIONALES vides information about

Assess pain and ability to	Provides information about
participate in activities.	degree of pain or presence of progressive paralysis.
Reposition q 2h, support extremities and maintain clean, comfortable bed with eggcrate mattress and padding to bony prominences as needed; use good postural alignment, provide passive ROM.	Promotes comfort and reduces risks for skin impairment.
Administer analgesics (specify) based on pain assessment and respiratory status; evaluate effect.	Eliminates or controls pain and promotes comfort (action of drug).
Apply moist heat to painful areas as ordered.	Promotes circulation to area and relieves pain.
Reassure parents and child that pain decreases as motor changes become resolved or improve.	Provides information about length of time pain might be expected to continue.
Determine the child's understanding of the word "pain" and ask family members what word the child uses at	Promotes better communication between the child/family and nurse.

- home; use pain assessment tool appropriate for the child's age and develop-mental level to identify the intensity of pain.
- Plan a preventive approach to pain around the clock; observe for signs of pain, physiologic and behavioral.

motes comfort and reduces isks for skin impairment. minates or controls pain and romotes comfort (action of lruq). motes circulation to area nd relieves pain. vides information about ength of time pain might be xpected to continue. motes better communication etween the child/family and urse.

Promotes early identification of pain which enhances effective pain relief.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANXIETY

Related to: Change in health status and threat to self-concept.

Defining Characteristics: (Specify: increased apprehension as condition worsens and paralysis spreads, expressed concern and worry about permanent effects of disease, treatments during hospitalization, expressed feeling of increased helplessness and uncertainty.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents and child verbalize decreased feelings of anxiety.

NOC: Anxiety Control

INTERVENTIONS Assess source and level of anxiety, how anxiety is manifested and need for information that will relieve it.	RATIONALES Provides information about degree of anxiety and need for interventions, sources may include fear and uncertainty about treatment and recovery, guilt about presence of illness, possible loss of parental role and responsibility while hospitalized.
Encourage expression of concerns and opportunity to ask questions about condition and recovery of ill child.	Provides opportunity to vent feelings, secure information needed to reduce anxiety.
Communicate therapeutically with parents and child and answer questions calmly and honestly.	Promotes supportive environment.
Assist parents and child to note improvements resulting from treatments.	Promotes positive attitude and optimistic outlook for recovery.
Encourage parents to stay with child and assist in care of child.	Allows for care and support of child instead of increasing anxiety that is caused by absence and lack of knowledge about child's condition.

Encourage child to participate in own care depending on ability and/ or paralysis; allow to make choices about ADL as soon as possible.	Promotes independence and control and preserves developmental status.
Teach parents and child about disease process and behaviors, physical effects.	Provides information to relieve anxiety by knowledge of what to expect.
Discuss each procedure or type of therapy, effects of any diagnostic tests to parents and child as appropriate to age.	Reduces fear of unknown which may increase anxiety.
Teach parents and child that degree of severity varies but motor weakness and paralysis start with extremities and move upward with the peak reached in 3 weeks and improvement seen by 4 to 8 weeks.	Provides information about usual course of disease and length of illness.
Clarify any information and answer questions in lay terms and use aids for visual reinforcement if helpful.	Prevents unnecessary anxiety resulting from inaccurate knowledge or beliefs or inconsistencies in information.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents and child verbalize decreased feelings of anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR IMPAIRED PARENTING

Related to: Illness.

Defining Characteristics: (Specify: verbalization of decreased interactions with hospitalized child and inability to provide care, lack of control over situation, request for information about parenting skills for long recovery period or permanent residual disability.)

Goal: Child will receive appropriate parenting by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents participate in child's care.

 \checkmark Parents identify agencies that offer assistance and support.

NOC: Parenting

INTERVENTIONS

RATIONALES Identifies factors associated with

care.

long recovery period.

parental behaviors.

Identifies potential for social

achieve realistic expectations. Enhances comfort and positive

Reduces anxiety for and enhances

Promotes parental knowledge and awareness of skills to be

learned and implemented. Facilitates muscle recovery and

prevents contractures and permanent disability, promotes

emotional reserves.

the disease.

learning about child's needs and

sense of confidence and control.

Provides reassurance that recovery is slow and conserves parental

Provides information and support

from those with experience with

deprivation of parents and development of strategies to

Assess for presence of permanent disability or possibility of long-term recovery and effect on parents.

Encourage parents to express feelings and unmet needs and ability to meet and develop selfexpectations.

Encourage touching and play activities between parents and child.

Encourage and praise positive parental behaviors; support any participation in care or decision-making on behalf of the child.

Teach parenting skills needed for long-term recovery period (specify).

Teach about physical therapy program including ROM, exercises, gait training, bracing (refer as indicated).

Continue to inform and support parents during recovery period (provide telephone numbers).

Refer to Guillain-Barre Syndrome Support Group for assistance or community agencies for support.

NIC: Support System Enhancement

Evaluation

(Date/time of evaluation of goal)

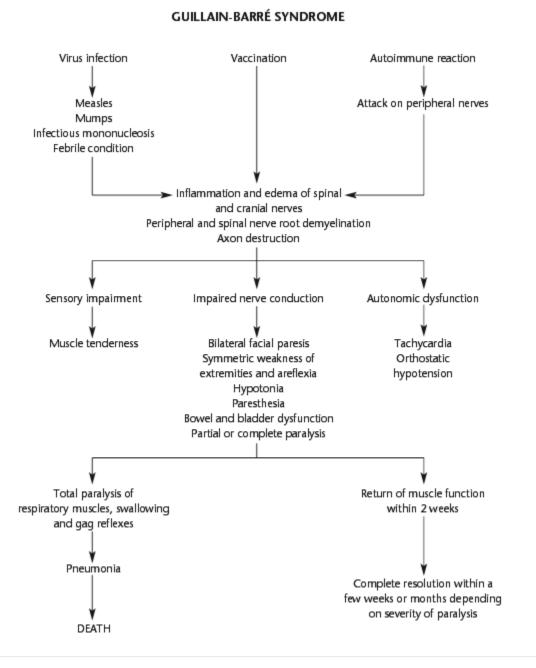
(Has goal been met? Not met? Partially met?)

(Did parents participate in child's care? Describe. Which agencies did parents identify?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR GUILLAIN-BARRE SYNDROME

7 of 9



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CHAPTER 7.4 - MENINGITIS

INTRODUCTION

Meningitis is the inflammation of the meninges and is the most common infection of the central nervous system (CNS). It may be bacterial or viral in origin. Bacterial infections may be caused by *Haemophilus influenzae* (type B), *Streptococcus pneumoniae*, *Neisseria meningitidis*, or *Staphlococcus aureus*. Those at greatest risk for this disease are infants between 6 and 12 months of age with most cases occurring between 1 month and 5 years of age. The most common route of infection is vascular dissemination from an infection in the nasopharynx or sinuses, or one implanted as a result of wounds, skull fracture, lumbar puncture, or surgical procedure. Viral (aseptic) meningitis is caused by a variety of viral agents and usually associated with measles, mumps, herpes, or enteritis. This form of meningitis is self-limiting and treated symptomatically for 3 to 10 days. Treatment includes hospitalization to differentiate between the two types of meningitis, isolation and management of symptoms, and prevention of complications.

MEDICAL CARE

Antipyretics: given to reduce fever.

Antibiotics: given to treat the infection, or specific to identified microorganisms as a result of culture and sensitivity tests.

Anticonvulsants: to prevent seizure activity.

Computerized Tomography Scan: reveals subdural effusion.

Cultures of Blood, Urine, Cerebrospinal Fluid, Nasopharynx: reveal causative organism.

Lumbar Puncture: reveals cloudy or purulent appearance, increased WBC predominant polymorphonuclear leukocytes, increased protein, decreased glucose in bacterial type; clear, normal or slight elevation of WBC with predominant lymphocytes, slight increased glucose, slight protein, normal lactate dehydrogenase in viral type.

Electrolyte Panel: reveals decreased K⁺ and increased Na⁺, changes indicating dehydration.

Serum Osmolality: reveals increase if antidiuretic hormone secretion increased.

Complete Blood Count: reveals increased WBC.

Urinalysis: increased osmolarity if antidiuretic hormone secretion increased, increased sp. gr.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Illness.

Defining Characteristics: (Specify: increase in body temperature above normal range, warm to touch, increased respiratory and pulse rate.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: vomiting, diarrhea.)

Related to: Deviations affecting intake of fluids.

Defining Characteristics: (Specify: decreased intake, fluid restrictions, change in level of consciousness.)

Related to: Failure of regulatory mechanisms.

Defining Characteristics: (Specify: secretion of antidiuretic hormone, increased sp. gr. and osmolality, reduced output, dehydration.)

See DISTURBED THOUGHT PROCESSES

Related to: Physiologic changes.

Defining Characteristics: (Specify: disorientation to time, place, persons, events, changes in consciousness, behavior changes also important to monitor fluids and ventilation.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: threat to or change in health status of child; threat to or change in environment [hospitalization of child].)

Defining Characteristics: (Specify: increased apprehension that condition of child might worsen, expressed concern and worry about actual hospitalization of child and seriousness of illness.)

Goal: Parents will experience decreased anxiety by (date and time to evaluate)

Outcome Criteria

 \checkmark Parents verbalize decreased anxiety.

NOC: Anxiety Reduction

INTERVENTIONS

Assess sources and level of anxiety, Provides information about the need how anxiety is manifested, and need for information and support.

RATIONALES

for interventions to relieve anxiety and concern; sources may include fear and uncertainty about treatment and recovery, guilt for

- Encourage to express concerns and ask questions regarding condition of ill child.
- Encourage to be involved in care and decision-making regarding child's needs. symptoms.
- Encourage parent to stay with child or visit when able and call when concerned if hospitalized; assist in care (hold, feed, bathe, clothe and diaper), and provide information about child's daily routines.
- Assess parental feelings of guilt from not suspecting the seriousness of the illness sooner; encourage them to openly discuss feelings.
- Teach about disease process and behaviors, physical effects and symptoms of disease (specify).
- Explain reason for procedures or type of therapy, effects of any diagnostic tests (specify).
- Teach parents about isolation precautions for at least 24 hours or until diagnosis is made and antibiotic therapy begins to take effect.
- Clarify any misinformation and answer questions in lay terms when parents able to listen, give same explanation as other staff and/or physician gave regarding disease process and transmission.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

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presence of illness, possible loss of parental role, and loss of responsibility when hospitalization necessary. Provides opportunity to vent feelings, secure information needed to reduce anxiety. Promotes constant monitoring of child's condition for improvements or worsening of Allows parent to care for and support child instead of increasing anxiety if not with child.

Prevents or minimizes feelings of blame or guilt.

Relieves anxiety of parents.

- Reduces fear of unknown which increases anxiety.
- Provides opportunity to validate type of meningitis and to take measures to prevent transmission to others in contact with child.
- Prevents unnecessary anxiety resulting from inaccurate knowledge or beliefs or inconsistencies in information.

RISK FOR INJURY

Related to: Internal factor of altered neurologic regulatory function.

Defining Characteristics: (Specify: increased intracranial pressure; early signs of lethargy, restlessness, increased head circumference, headache, vomiting, personality changes or late signs of decreased level of consciousness, change in posturing, widening of pulse pressure, projectile vomiting, decreased pulse and respirations, seizure, abnormal PERL, shrill cry, bulging fontanel, changes in vision.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 $\sqrt{(\text{Specify for child, e.g., no decrease in LOC; no vomiting or seizures.)}}$

NOC: Risk Detection

INTERVENTIONS

INTERVENTIONS	RATIONALES
Assess neurologic status to include VS pattern, changes in consciousness, behavior patterns and pupillary/ ocular responses appropriate for age (measure head circumference in infant) (specify when).	Provides informatio clues to possible intracranial pres inflammation of t associated edema.
Attach cardiac and respiratory monitor to assess for bradycardia and hypoxia.	Increased intracran decrease pulse an widen the pulse p pulse becoming ir respirations rapi ICP progresses an attempts to decre brain.
Reposition q 2h, positioning child to optimize comfort with HOB slightly elevated, no pillow in bed, side- lying position if nuchal rigidity present; avoid sudden movements such as lifting the head; have oxygen and suctioning equipment on hand to be administered when needed.	Maintains airway pa prevents obstruct which increases C ICP.
Provide quiet environment free from bright lighting, minimize gentle handling and care of infant/child, allow for rest periods between care or procedures, restrict visiting if irritable.	Promotes comfort an reduces irritabil
Administer antibiotics as prescribed (specify) as soon as ordered based on analysis of CSF, throat cultures. Note any seizure activity including	Manages existing in prevents further infection (action Prevents injury dur

RATIONALES Provides information that offers clues to possible change in intracranial pressure caused by inflammation of the brain and associated edema.
Increased intracranial pressure will decrease pulse and respirations, widen the pulse pressure with pulse becoming irregular and respirations rapid and shallow as ICP progresses and the body attempts to decrease blood flow to brain.
Maintains airway patency and prevents obstruction by secretion which increases CO ₂ retention and ICP.

nd rest and lity.

nfection and spread of n of drug). ring seizure which onset, frequency, duration and type of movements before, during, or after seizure; pad bed and remove objects/toys from bed and administer any ordered anticonvulsants.

Administer stool softeners, avoid use of restraints and prevent or reduce crying episodes.

Position with head elevated up to 30 degrees and maintain head alignment with sandbag.

Stay with infant/child and sit near and speak in a low voice.

Inform parents of changes in condition, reasons for physical and mental changes and effects of the disease.

Explain causes of increased ICP and importance of preventing any further increases in ICP.

Inform of reason for seizure activity and other signs and symptoms of the disease and treatment necessitated by them.

Inform parents of risk for complications and need for monitoring for increased ICP; review signs and symptoms of increased ICP. Prevents Valsalva's maneuver that will increase ICP.

is a complication of meningitis.

Decreases intracranial pressure by allowing blood flow from brain by gravity or any obstruction of jugular drainage.

Provides limited stimulation to infant/child during acute stage of disease.

Promotes knowledge about possible manifestations of the disease and causes.

Allows for understanding of increased ICP and life-threatening nature of such a complication. Provides knowledge of seizure complications and actions and responsibility in prevention and/ or treatment of this activity. Allows for ongoing care and responsibility in preventing change in neurologic status.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about outcome criteria chosen. What is LOC? Did child vomit? Are there signs of increased ICP? Describe.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of exposure to information.

Defining Characteristics: (Specify: request for information about medications, signs and symptoms and behaviors to report, general care during convalescence of infant/child.)

Goal: Parents will obtain information about meningitis by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of cause and treatment plan.

NOC: Knowledge: Treatment Regimen

INTERVENTIONS

RATIONALES

INTERVENTIONS	RATIONAL
Assess knowledge of disease and method	Promotes
to control and resolve disease;	realis
willingness and interest of parents	medica
to implement care.	repeti
Provide information and explanations	Ensures
in clear language that is	readin
understandable; use pictures,	visual
pamphlets, video tapes, model in	
teaching about disease.	
Teach about administration of	Provides
medications including (specify:	in med
action of drugs, dosages times	treat
	activi
frequency, side effects, expected	
results, methods to give	diseas
medications); provide written	treate
instructions and schedule to follow	mening
and inform to administer full course	antibi
of antibiotic to child.	establ
Assist to plan feedings and/or develop	Promotes
menus to include nourishing fluids,	progre
caloric and basic four groups for	
age group.	
Reinforce to parents follow up to	Promotes
assess for potential hearing	loss (
impairment.	caused
Inform parents as to the benefits of	May prev
routine immunizations with H.	sugges
<i>influenzae</i> (type B) vaccine,	of men
beginning at 2 months of age for a	the va
total of 3 doses.	decrea
total of 5 doses.	
manula in annual a sharan annual an d	unvacc
Teach to promote adequate rest and	Rest imp
activities that provide age	stimul
appropriate play and stimulation	contin
(specify).	stimul

Teach to isolate other children in family for 24 hours if respiratory infection present or until culture is negative.

Teach to report elevated temperature,

Promotes plan of instruction that is
realistic to ensure compliance of
medical regimen; prevents
repetition of information.
Ensures understanding based on
readiness and ability to learn;
visual aids reinforce learning.
Provides information for compliance

in medication therapy to prevent or treat infection and seizure activity resulting from the disease; bacterial meningitis is treated with antibiotics, and viral meningitis may be treated with antibiotics until diagnosis is established.

Promotes optimal nutrition in a progressive manner as tolerable.

Promotes identification of hearing loss (injury to 8th cranial nerve caused by meningitis).

May prevent the disease; data suggests the incidence of this form of meningitis has decreased since the vaccine was introduced; may decrease the spread of infection to unvaccinated infants.

Rest important for convalescence and stimulating activities needed for continued development or to promote stimulation if developmental lag is present.

Prevents transmission of bacteria to others in family.

Reveals signs and symptoms of

poor feeding or anorexia, irritability or other changes in behavior or level of consciousness, decrease in hearing acuity. presence of or spread of infection.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

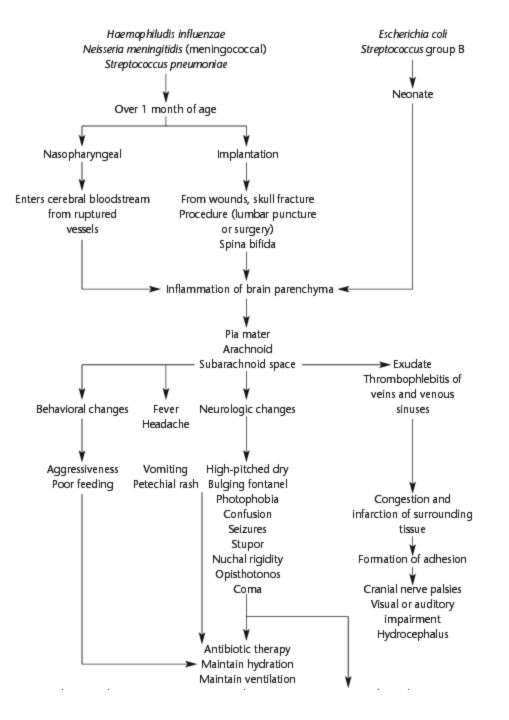
(Has goal been met? Not met? Partially met?)

(What did clients verbalize about the cause of meningitis and the treatment plan? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR MENINGITIS

MENINGITIS



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CHAPTER 7.5 - SENSORY DEFICITS

INTRODUCTION

Sensory deficits can lead to auditory or visual deprivation and affect the child's ability to interact with the environment. Cognitive, perceptive, communicative, and social skills may all be affected.

Vision disorders are common in children with the most prevalent problems of a refractive type (myopia or hyperopia) and others that include amblyopia, strabismus, cataracts, and glaucoma. Eye injury may occur as a result of trauma from blunt or sharp objects, or from infection resulting in conjunctivitis, keratitis, or even blindness or loss of the eye.

Auditory disorders are classified as conductive, sensorineural or mixed conductive-sensorineural hearing loss. Causes include damage to the inner ear structures or the auditory nerve from congenital defects, infection, ototoxic drugs, long-term excessive exposure to noises (sensorineural) or middle ear infection such as otitis media (conductive).

Hearing and vision screenings vary with the age of the infant/child and are performed as part of physical assessment of all children. Treatment focuses on the correction and rehabilitation of any actual or potential impairment.

MEDICAL CARE

Anti-inflammatories: to eye to reduce inflammation if present.

Antibiotics: to treat infection.

Vision Tests: Lighthouse Vision test or Blackbird Preschool Vision Test for children 3 to 4 years of age; Snellen E vision chart for children 5 to 6 years of age; Snellen vision chart for children 7 years and older who are familiar with the alphabet; Corneal Light Reflex test and Cover/Uncover test to reveal malalignment; visual tracking to identify muscle movement abnormalities; test for peripheral vision and amblyopia reveal objection to cover over eye or inability to see at a 90-degree angle from straight line of vision.

Hearing Tests: audiometry reveals degree of hearing loss and possible locale of defect in child 2 to 5 years of age based on behavior modification and over 5 years if child is able to cooperate; reaction to noise in infant; conductive tests (Rinne and Weber) in children of school-age reveals auditory acuity; tympanometry reveals middle ear air pressure and abnormalities but not reliable in young children; brain stem-evoked audiometry reveals hearing acuity in the infant or child by computer analysis of electrical or brain wave potentials that are initiated by the hearing process.

COMMON NURSING DIAGNOSES

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of physical disability.

Defining Characteristics: (Specify: delay or difficulty in performing skills [motor, social, expressive] typical of age group, behavior and/or intellectual deficits, poor academic performance, reduced independence in performance of ADL.)

ADDITIONAL NURSING DIAGNOSES

DISTURBED SENSORY PERCEPTION: AUDITORY

Related to: (Specify: altered sensory reception, transmission and/or integration of neurologic disease or deficit, altered state of sense organ, inability to hear [partial or complete deafness].)

Defining Characteristics: (Specify: change in behavior pattern, anxiety, change in usual response to stimuli, altered communication pattern, auditory distortions, reduced auditory acuity, inappropriate responses.)

Goal: Client will experience improved hearing by (date and time to evaluate).

Outcome Criteria

 \checkmark (Specify outcome criteria appropriate for individual child.)

NOC: Risk Control: Hearing Impairment

INTERVENTIONS

RATIONALES

Assess history of chronic otitis media, brain infection, use of ototoxic drugs, rubella or other intrauterine infections (viral), congenital defects of ear or nose, presence of deafness in family members, hypoxemia and increased bilirubin levels in low-birth weight infants.	Provides information about possible risks for conductive or sensorineural hearing loss.
<pre>Weight infants. Assess for auditory acuity: Infant: failure to waken to sounds; no response to loud noise; no response to sound made out of visual field; lack of startle and blink reflexes; failure to turn head to localize sound by 6 months; absence of babble by 7 months; lack of response to spoken words/failure to follow simple commands (older infant). Child: failure to respond to name or to locate sound; failure to respond to being read to or to sound of music; failure to respond to verbal speech; requesting repeat of message; gesturing instead of speech; shy, timid, inattentive; poor performance in school; failure to develop understandable language by 24 months; vocal play, head banging for increased vibratory</pre>	<pre>Provides information of infant/ child ability to hear using techniques that are age dependent.</pre>

sensation; stubborn attitude related to decreased comprehension; appear to be "in their own world." Perform audiometry or other tests depending on age and preparation of technician. Face infant/child when speaking, speak distinctly and slowly without shouting to gain child's attention. Assist with use of hearing aid. Encourage use of sign language, lip reading, cued speech, speech therapy and as much verbal communication as possible. Provide for play and social interactions, self-care in all activities for age group, continued attendance at school. Anticipate grief reaction after the diagnosis; facilitate expression of feelings and concerns. Help child focus on sounds in the environment. Recommend closed-captioned TV. Encourage child to read books and practice responding to cues with language development or use of aids or methods. Encourage child to take responsibility for the care and use of the aid as soon as possible. Teach parents and child about type of tests to be performed and procedure to be followed by child. Alert parents to behavioral cues indicating hearing impairment. hearing loss for correction before development is affected. Teach parents about hearing aid Assists with hearing aid selection if loss is

resources, types available and instruct in cleaning and care of aid and the proper adjustment for optimal benefit.

Instruct child in methods to conceal hearing aid (specify).

Refer parents and child of resources to learn lip reading or signing or Evaluates degree of hearing acuity and/or loss and type of hearing loss. Provides opportunity to develop lip reading. Promotes maximum benefit from aid hearing. Promotes communication with others. Promotes independence for age group and security in interacting with peers. Grief reaction is normal part of early adjustment phase; promotes adjustment to diagnosis. Maximizes child's hearing potential. Provides enjoyment for the child; facilitates feelings of normalcy. Promotes effective communication and corrects or prevents impairments. Promotes independence and self esteem. Prevents anxiety caused by test and possible results if not done as part of normal child assessment and screening. Promotes identification of

conductive type.

Promotes a method of

Prevents negative effect of

self-concept and image.

communication with others and

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speaking (specify).

Encourage parents and family to provide stimulation through language.

Refer to appropriate community resources and support groups, as needed (specify).

Encourage parents to promote socialization with peers.

Assist parents to arrange for vision testing.

Discuss with the family to maintain normalcy, including discipline and limit setting.

Assist parents and child to adjust environment and select toys that promote social interactions and increase hearing potential.

Encourage parents to notify school nurse and teacher of degree of hearing loss and methods of communications used by child.

NIC: *Teaching: Disease Process*

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data about the outcome criteria selected.)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED SENSORY PERCEPTION: VISUAL

Related to: (Specify: altered sensory reception, transmission and/or integration of neurologic disease or deficit, altered state of sense organ, inability to see [partial or complete loss of sight].)

especially those with hearing

Promotes developmental process

Provides support to parents.

Promotes feelings of normalcy

ability to learn lip reading

Encourages social interactions,

development of friendships,

encourages a positive school

experience and opportunity for

Poor sight may decrease the

Promotes normal growth and

and sense of belonging.

Provides information that

learning in a regular classroom and socialization

with classmates.

impairment.

and language use.

and self-esteem.

or sign language.

development.

Defining Characteristics: (Specify: change in behavior pattern, anxiety, change in usual responses to stimuli, visual distortions, reduced visual acuity, myopia, hyperopia, lazy eye, cross-eye, cataracts, glaucoma, trauma to eye, frequent injury by walking into objects.)

Goal: Client will experience improved vision by (date and time to evaluate).

Outcome Criteria

 \checkmark (Specify outcome criteria appropriate for individual child.)

NOC: Risk Control: Visual Impairment

INTERVENTIONS

RATIONALES

Assess history of rubella or syphilis of mother before birth of child, presence of genetic disorders in the family, excessive oxygen given to infant, congenital conditions that cause blindness, impairment caused by strabismus, cataract or glaucoma. Assess for risk of trauma to an eye from toys, missiles or projectiles into eye during games or play, excessive sunlight to eyes.

Assess for visual acuity: Infant: failure to follow light or object with eye movement and cessation of body movement; failure to fixate on mother's face; delay in posture and in developmental tasks; absence of binocularity; failure to move eyes together.Child: failure to respond to visual stimuli; squinting, blinking, rubbing of eyes; eye crossing after 6 months of age; headache after using eyes; failure to initiate eye contact, nystagmus, head tilt, holding reading material close to face, bumps into objects when walking or crawling; poor performance in school.

- Perform visual tests for acuity peripheral vision and muscle balance depending on age and intellectual development level; include tests for strabismus, amblyopia.
- Face infant/child when speaking, explain sounds and what is happening in the environment.

State name when approaching and explain any procedure before starting, use touch if acceptable. Assist with use and care of glasses or patching one eye and encourage wearing of these as prescribed. Provide for age related toys and Provides information about risks for or presence of sight impairment or blindness.

Eye trauma caused by accidents is most common cause of blindness in children and information provides safety education plan to prevent eye injury. Provides information of infant/ child ability to see using techniques that are age dependent.

Evaluates degree of acuity and/or loss and possible causes with consideration for improving visual acuity with age.

Promotes comfort and security with environment.

Reduces anxiety and sudden contact that is unexpected.

Promotes independence in use of aids for refractive disorders and strabismus. Promotes stimulation and

social interactions within secure development. environment. Provide well lit environment and Promotes safety and security in familiar placement of objects to the environment and prevents orient child to environment. possible trauma from bumping into furniture or falling. Promotes self-esteem of child. Emphasize the abilities and praise attempts and/or accomplishments. Talk softly to infant before contact; Promotes association of human learn to read total body cues, not voice with anticipated changes; just eyes and visual cues; use prepares infant for changes. gentleness of touch when interacting with infant. Tell the child exactly what you will Promotes understanding and be doing before you do anything; feelings of security and trust. reinforce this as you perform the procedure; warn of discomfort. Allow the child to touch instruments Promotes increased understanding and equipment whenever possible. through speech. Use the child's name specifically when Promotes communication since visually impaired children lack you want a response from him/her. the input of visual cues. Teach parents and child about tests to Prevents anxiety and promotes be performed, what is being tested cooperation. and procedure to be followed by child. Discuss with parents the child's abilities and impairment and what might be expected of child; behaviors that might indicate a decrease in visual acuity. Assist parents to explore the possibility of rehabilitation to accomplish ADL skills, use of Braille, mobility aids, trained dogs. Encourage parents to treat child as others in family, setting limits, encouraging play and relationships belonging. with family members. Instruct in eye care, administration of eye medications (specify). regimen. Encourage parents to notify school of sight deficit and to place in a front row, use large printed materials, proper lighting. Teach parents to plan for regular vision screening. Initiate referral to an

Provides a realistic appraisal of visual ability of the child. Provides assistance to gain independence for the child. Promotes integration into the family and creates a sense of Promotes health of eve and compliance with medical Encourages learning with optimal consideration for impairment. Monitors visual acuity for improvements or need for change in treatment; screening is often done in schools. Permits thorough examination of

ophthalmologist for evaluation if	eyes to identify and treat any
acuity is not normal for age or if	disorder.
indication of a disorder is present.	
Refer to national and community	Provides information and support
agencies and associations that	for families of child with
supply educational materials,	impaired vision.
services for blind or partially	
sighted children.	

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

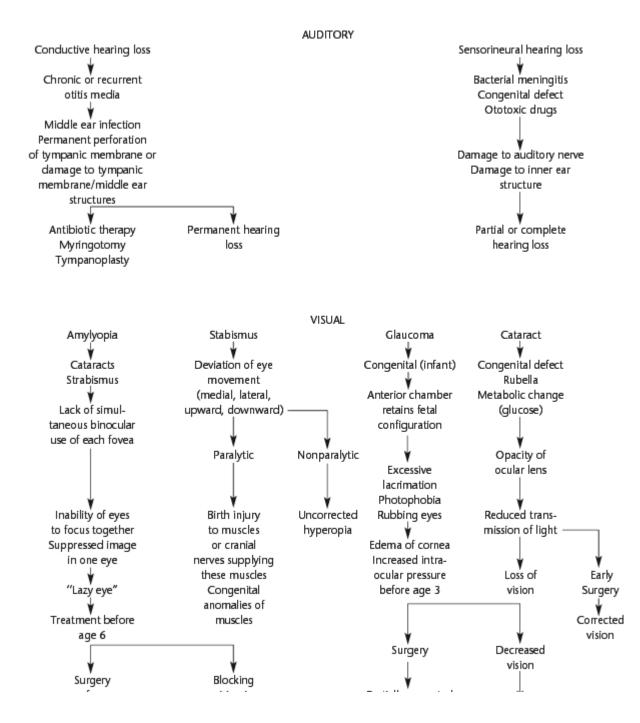
(Has goal been met? Not met? Partially met?)

(Provide data about the outcome criteria selected.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR SENSORY DEFICITS

SENSORY DEFICITS



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CHAPTER 7.6 - REYE'S SYNDROME

INTRODUCTION

Reye's syndrome is an acute encephalopathy, often including fatty infiltration of organs such as the liver, heart, lungs, pancreas, and skeletal muscle. It has been associated with a viral condition such as influenza or varicella and the use of aspirin as an analgesic/antipyretic, but the exact cause is not known. Serious complications of the disorder can include increased intracranial pressure from cerebral edema, high levels of ammonia from organ involvement, and mental dysfunction from progressive coma. Recovery is complete in most depending on severity of the condition but some neurologic and mental residual disability may occur. The most common group affected by this condition are those between 6 to 11 years of age although all ages are susceptible. Hospitalization with close observation is required with therapy to monitor and treat all vital functions affected by the condition and state of consciousness.

MEDICAL CARE

Sedatives/Anticonvulsants: promote CNS depression for sedation or to prevent or treat seizures.

Muscle Relaxants: induce sedation and relax muscles if mechanical assistive ventilation used.

Diuretics (Osmotic): mannitol (Osmitrol) to induce diuresis by increasing osmotic pressure of glomerular filtrate to prevent reabsorption of water.

Antibiotics: treat infection if present or specific antibiotic dependent on culture and sensitivities.

Anti-inflammatories: (corticosteroids) reduce inflammatory process, capillary dilation, and permeability.

Antacids: via nasogastric tube to maintain pH of over 4.0 to prevent gastrointestinal bleeding.

Liver Biopsy: reveals histologic results of impaired liver or pathology.

Enzymes: reveal increased glutamic oxaloacetic transaminase (SGOT), glutamic pyruvic transaminase (SGPT), lactic dehydrogenase (LDH), creatine phosphokinase (CPK), amylase, and lipase.

Ammonia: reveals increases of twice the normal level (hyperammonimia).

Glucose: reveals decreases with this disease (hypoglycemia) that may lead to brain damage.

Prothrombin/Partial Thromboplastin Times (PT, APPT): reveals prolonged times.

Cholesterol: reveals decreased level.

Uric acid: reveals increased level.

Arterial Blood Gases (ABGs): reveal levels that may indicate possible increases in cerebral edema or respiratory distress.

COMMON NURSING DIAGNOSES

See DECREASED CARDIAC OUTPUT

Related to: Mechanical or electrical effect on the heart.

Defining Characteristics: (Specify: variations in hemodynamic readings, ECG changes, arrhythmias, decreased peripheral pulses, oliguria, diuretic therapy, changes in perfusion of vital organs.)

See IMPAIRED GAS EXCHANGE

Related to: Assistive ventilatory use and oxygen supply.

Defining Characteristics: (Specify: hypercapnia, hypoxia, confusion, restlessness, irritability, inability to move secretions, cyanosis, retractions, changes in ABGs.)

See DISTURBED THOUGHT PROCESSES

Related to: Physiologic changes, encephalopathy.

Defining Characteristics: (Specify: cognitive dissonance, disorientation, changes in consciousness, hallucination, altered sleep patterns, coma, altered attention span and memory, lethargy, drowsiness.)

See HYPERTHERMIA

Related to: Illness.

Defining Characteristics: (Specify: increase in body temperature above normal range, increased respiratory and pulse rate, warm to touch.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Medications.

Defining Characteristics: (Specify: diuretic therapy, altered intake, NPO status, increased urinary output, loss via nasogastric tube suctioning.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Physical immobilization, hypothermia blanket, invasive procedures.

Defining Characteristics: (Specify: disruption of skin surfaces, redness, edema, discharge, warmth at insertion sites for IV, monitoring devices, redness or excoration at pressure points.)

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: Threat of death; change in health status; change in environment (hospitalization).

Defining Characteristics: (Specify: apprehension and uncertainty about child's condition, feelings of inadequacy and increased helplessness about child cared for in intensive care unit, fear associated with severe acuity of condition, possible sequelae as a result of the disorder.)

Goal: Parents will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize decreased anxiety.

NOC: Anxiety Control

INTERVENTIONS

RATIONALES

- Assess level of anxiety, need for information and support about severity and life threatening nature of the illness.
- Allow expression of concerns and opportunity to ask questions about condition and recovery of child. Encourage parents to remain with child and participate in care if appropriate; if parents unable to stay, allow open visitation and frequent telephoning. Encourage parents to bring a
- favorite toy, book or other items.
- Provide for space to rest, bathe and relax if staying with child; provide quiet room if desired. Refer to clergy or social services as appropriate.
- Explain reason for and what to expect for each procedure or type of therapy (lumbar puncture, IV lines, urinary catheter, NG tube, respirator).
- Provide honest information in understandable language and reinforce physician.
- Teach parents about state of consciousness of child, stage of

- Provides information about severity of stress and anxiety, guilt about responsibility of delay in diagnosis and loss of parental role, fears and feelings about possible complications.Provides opportunity to vent feelings, secure information needed to reduce anxiety.Promotes parent involvement and interaction with the child.
- Promotes contact with familiar objects outside the hospital environment.
- Promotes emotional support to parents to reduce anxiety.
- Provides support and assistance in dealing with severely ill child. Reduces fear and promotes understanding.
- Prevents unnecessary anxiety resulting from inaccurate information or beliefs. Reduces fear and anxiety.

disease and signs and symptoms to expect.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did parents verbalize decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Illness.

Defining Characteristics: (Specify: altered clotting factors, changes in orientation and consciousness, increased ICP, altered sleep pattern, cognitive dissonance, inability to close or blink eyes, hypoglycemic seizure activity, coma.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark (Specify appropriate outcome criteria based on individual child's condition.)

NOC: Risk Detection

INTERVENTIONS

RATIONALES

Assess for stage by noting signs and symptoms associated with the condition which range from vomiting, lethargy, and liver dysfunction to disorientation, deepening coma, loss of reflexes, and seizures.	Indicate stage as a basis for expected behaviors and need for specific care and preventive measures.
Assess vomiting, papilledema, ataxia, irritability, lethargy, apathy, confusion, change in level of consciousness, increased pulse, and decreased BP q 1h; if ICP monitor in place, note elevation above 20 mm Hg or any gradual increases for physician.	Indicates increasing ICP caused by cerebral edema and advancing stage of disease.
Elevate head of bed 30 degrees and maintain head and neck alignment.	Promotes cerebral circulation and reduces venous pressure; prevents neck flexion.

- Administer osmotic diuretic, diretic, sedative, anticonvulsants, neuromuscular blocking agent IV separately or in combination as ordered (specify).
- Provide clustering of care and procedures.
- Carry out seizure precautions of padding bed, removing objects from bed, maintain suction and oxygen at bedside.
- Monitor laboratory tests of increased prothrombin or partial thrombin time, fibrin split products, decreased platelets and serum glucose, decreased electrolyte levels (K⁺).
- Monitor for occult blood in stool, gastric aspirate, skin for petechiae, hematoma, oozing or frank bleeding from any orifice or mucous membranes.
- Administer antacid, vitamin K and/or blood as ordered.
- Instill eye drops (as ordered) or tape eyelids closed if paralyzed (specify).
- Teach parents of every aspect of care and equipment used including comatosed status, effects of medications, IV therapy, NG tube care, use of catheter, use of monitoring devices (ICP, cardiac, CVP), intubation and ventilation. Reassure parents that mild stimulation is allowed and that speaking and touching child is permitted.
- Teach parents that child will be reoriented to person, time and place when awakened from the coma. Assist parents to read labels for aspirin (salicylate) content and to avoid using these drugs (e.g., Pepto-Bismol) when child is ill. Teach parents that deficits usually improve and resolve in 6 to 12 months during recovery and evaluation and rehabilitation may be

- Administered to promote fluid output to reduce edema, prevent seizure activity, and induce sedation to reduce agitation and activity that increase ICP. Promotes rest.
- Prevents injury during seizure and treats apnea if it occurs.
- Provides information about coagulation defects from liver dysfunction, hypoglycemia metabolic dysfunction, and loss of electrolytes from diuretic therapy.
- Provides information about possible bleeding from impaired liver function.
- Replaces blood loss and increases blood clotting capabilities; antacids are given to discourage gastrointestinal irritation and bleeding.
- Provides moisture to eyes if unable to blink or close eyes to prevent corneal damage.
- Assist parents to deal with their child that is acutely ill.
- Provides stimulation as child may be able to perceive tactile and auditory stimuli when unresponsive.
- Child may not be aware of the environment and realize that he or she has been hospitalized. Promotes prevention of syndrome as aspirin considered to be a causative factor.
- Provides guidance as to what to expect as child progresses to wellness.

needed.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

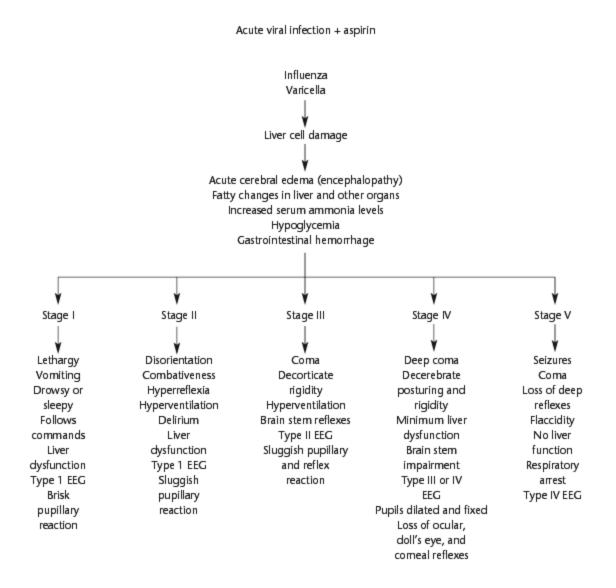
(Has goal been met? Not met? Partially met?)

(Provide data about outcome criteria chosen.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR REYE'S SYNDROME





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CHAPTER 7.7 - SEIZURES

INTRODUCTION

A seizure is a central nervous system (CNS) event characterized by an excessive level of neuronal electrical discharges in the brain. Seizures may be idiopathic or chronic and recurrent (epilepsy or acute acquired and nonrecurrent). Seizures can be partial or generalized with signs and symptoms dependent on the areas involved and range from varying degrees of motor, sensory and sensorimotor changes, and altered consciousness. Partial seizures may be classified as partial or complex partial and generalized seizures as tonic-clonic, absence, atonic or akinetic, myoclonic, and infantile spasms. Seizures occur at any age in children with epilepsy, but mostly in children over 3 years of age. Infantile spasms occur in infants between 3 to 9 months of age. Treatment focuses on prevention of subsequent seizure activity with medication regimen or surgical removal of a focal lesion, tumor, or hemorrhage. Febrile seizures occur in children between 3 and 5 months. The younger the age of the first episode, the more likely there will be recurrence. Status epilepticus is characterized by a seizure lasting more than 30 minutes or repeated seizures without regaining consciousness and is viewed as a medical emergency with a prognosis dependent on the length of the seizure activity and the effect on the brain.

MEDICAL CARE

Anticonvulsants: decrease or limit impulses and spread of electrical discharges in the brain.

Amphetamines: stimulate CNS and counteract drowsiness caused by anticonvulsant therapy.

Electroencephalogram (EEG): reveals abnormal electrical impulses to the brain in initial stage of seizure and characteristic patterns identifying type of seizure.

Skull X-rays: reveal head trauma if present.

Computerized Tomography Scan (CT): reveals abnormalities such as brain tumor, trauma, or infection as causes of seizure.

Ultrasound: reveals intraventricular hemorrhage if present as cause of seizure.

Brain Scan: reveals abnormality as source of seizure if present.

Lumbar Puncture: reveals abnormality in cerebrospinal fluid caused by bleeding trauma or infection responsible for seizure activity.

Complete Blood Count: reveals increased WBC if infection present.

Electrolyte Panel: reveals abnormal levels of calcium or phosphorus as cause of seizure if levels decreased.

Blood Glucose: reveals metabolic cause for seizure if decreased.

Lead Level: reveals increased level as cause of seizure.

COMMON NURSING DIAGNOSES

See INEFFECTIVE BREATHING PATTERN

Related to: (Specify: neuromuscular impairment, perception or cognitive impairment.)

Defining Characteristics: (Specify: dyspnea, tachypnea, changes in respiratory depth, cyanosis, cessation of breathing in status epilepticus, obstruction of airway by secretions during a seizure.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Rejection of diet.

Defining Characteristics: (Specify: weight under ideal for height and frame, poor eating patterns, anorexia, rejection of decrease in protein and carbohydrate and increase of fat in dietary intake.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: (Specify: internal factors of biochemical regulatory function [seizure, tissue hypoxia], physical trauma [broken skin, altered mobility], psychological changes [orientation].)

Defining Characteristics: (Specify: seizure activity with change in consciousness, falls, muscle flaccidity or rigidity, aspiration of secretions, cyanosis, change in sensation in a body part, muscle weakness, presence of aura before seizure.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Client sustains no physical injury from seizure.

NOC: *Risk Detection*

INTERVENTIONS

RATIONALES

Assess seizure activity including type of activity before, during, and after seizure, movements and parts of body involved (tonic and clonic), site of onset and progression of seizure, duration of seizure, pupillary changes, bowel or bladder incontinence, paralysis, sleep, alertness, or confusion after seizure, presence of aura. Assess skin for color (pallor, flushed or cyanosis), respiratory

rate, depth, and ease for signs of distress; have oxygen, suctioning equipment on hand. Provides information that prepares environment for prevention of trauma or complications as a result of seizure.

Provides information about possible obstruction or aspiration of secretions if seizures are prolonged and affect ventilation.

- Maintain sidelying position with side rails up, bed or crib padded, and articles removed from area near child.
- Avoid attempts to restrain any movements or putting anything in child's mouth; provide gentle support to head and arms if harm might result.
- Loosen clothing, assist child to floor if not in bed and place pad under head.
- Stay with child during seizure, reorient when awake, and allow to rest or sleep after seizure.
- Administer and evaluate anticonvulsants obtaining blood levels as ordered (specify).
- Assist parents to remain calm during seizure activity of child.
- Teach about information to record about seizure activity should it occur (specify).
- Teach parents about care of child during seizure and precautions to take.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did client have a seizure? Was any injury sustained?)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: Situational crisis.

Defining Characteristics: (Specify: preoccupation of significant persons with anxiety, guilt, fear regarding child's disorder, display of protective behaviors by significant persons that are disproportionate to child's needs [too much or too little], recurrence of seizure activity, lack of support by family members to child.)

Related to: (Specify: inadequate or incorrect information or understanding by a primary person and/or significant persons.)

3 of 9

Allows for secretions to drain and maintains airway patency; padding protects child from injury during seizure. Restraint may result in fracture and inserting object in mouth increases stimuli.

Prevents injury from fall.

Provides support and prevents any injury to child.

(Action of drugs.)

Allows parents to function appropriately to protect the child from injury.Provides physician with important information needed to prescribe medical regimen.Ensures safe and effective actions to prevent injury. **Defining Characteristics:** (Specify: verbalizations by significant persons of inadequate knowledge base that interferes with care and support of infant/child.)

Goal: Family will cope effectively by (date and time to evaluate).

Outcome Criteria

 \checkmark Family members identify stressors of child's illness.

 \checkmark Family identifies 3 effective ways to cope with child's illness.

NOC: Family Coping

INTERVENTIONS

RATIONALES

Assess anxiety, fear, erratic behavior, perception of crisis situation by family members.

Assess coping methods used and effectiveness; family ability to cope with ill member of family, stress on family relationships, developmental level of family, response of siblings, knowledge and attitudes about disorder and health practices.

Encourage expression of feelings and questions in accepting, nonjudgmental environment and assist family members to express problems and explore solutions responsibly.

Encourage family involvement in care during hospitalization and after discharge.

Allow for open visitation, encourage telephone calls to hospital by family members.

Provide place for family members to rest, freshen up.

Suggest social worker referral if needed.

Give positive feedback and praise family efforts in developing coping and problem-solving techniques and caring for infant/ Provides information affecting family ability to cope with infant/ child's recurring disorder. Identifies coping methods that work and need to develop new coping skills; family attitudes and coping abilities directly affect child's health and feeling of wellness, members of family may develop emotional problems when stressed, and ill member may strengthen or strain family relationships. Reduces anxiety and enhances

family's understanding of infant/ child's condition and provides opportunity to express feelings, problems, and problem-solving strategies by whole family. Provides for reduction of anxiety and fear.

Encourages bonding and assists in coping with infant/child's hospitalization. Promotes comfort of family.

Provides support and resources for financial or infant/child's care relief.

Encourages parents and family to participate in care and gain some control over the situation.

child. Assist to establish short- and long- term goals in maintaining child care and family integration of child into home routine.	Promotes inclusion of ill child in family routines and activities.
Reinforce appropriate coping behavior.	Promotes behavior change and adaptation to care of infant/ child prone to seizures.
Teach that overprotective behaviors may hinder growth and development.	Knowledge will enhance family understanding of condition and adverse effects of behavior.
Encourage to maintain health of family members and discuss needs of all family members; inform of methods to provide care and attention to all members.	Chronic anxiety, fatigue will affect health and care capabilities of family.
Suggest methods to maintain child's independence and role in the family.	Ensures acceptance of child into family routines.
Reassure parents that they do not pass this disorder directly onto their offspring, that intellectual functioning is not affected, that the child is not considered violent or insane, that the disorder is not contagious.	Explodes the many myths associated with the disorder.
Reinforce to parents that child should attend school and participate in activities with friends and peers.	Normalizes life of child as much as possible.
Teach parents that child needs to wear or carry identification and treatment information.	Provides information that may be needed in an emergency.
Refer to Epilepsy Foundation.	Provides information and support to family for chronic, long-term care.

NIC: Support System Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What stressors did family identify? Which 3 coping mechanisms did family identify?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of exposure to information about ongoing care.

Defining Characteristics: (Specify: expressed request for information about medication regimen, causes of seizures and when to report to physician.)

Goal: Parents will obtain information about care of child by (date and time to evaluate).

Outcome Criteria

 \checkmark Parents verbalize understanding of cause of seizures.

 \checkmark Parents verbalize correct medication plan for child.

NOC: Knowledge: Treatment Regimen

INTERVENTIONS

Assess parents' and child's perceptions and knowledge about disorder, fears and misconceptions about disorder, nature and frequency of seizures, and factors that initiate seizures. Teach about administration of anticonvulsants (specify name of drug(s), action of drug(s) and when given in combination, times, frequency, side effects, expected results, methods to give drugs) and provide written instructions to follow related to age group and a schedule to follow; give at most convenient times with meals or at bedtime with as few disruptions in routines and activities as possible; give in tablets, liquid extracts, emulsions, or crushed in syrup or jelly; avoid milk if giving phenytoin or phenobarbital and supplement vitamin D; replace prescription before running out of drug(s) and avoid skipping doses (specify).

- Teach parents and child to report lethargy, ataxia, nausea, vomiting, hyperactivity, blood dyscrasia, stomatitis, tremor, nystagmus.
- Teach parents about blood testing for therapeutic levels, blood count, liver function tests when instructed.

Inform that seizures may be provoked by

RATIONALES

Provides information regarding long-term care of child with a seizure disorder and how to deal with seizures and the stigma attached to this disorder. Promotes compliance to drug regimen which is the most important treatment to prevent seizure.

Indicates side effects of sedatives and anticonvulsants.

Prevents toxicity and other severe side effects of drug therapy by adjusting dosage or changing medications. Promotes knowledge and

omission of medication administration, an illness or infection, too much activity, lack of sleep, excessive alcohol or drug intake, emotional stress, or other causes specific to child.	understanding of causes of increased frequency of seizures.
Teach parents to supervise child in	Provides precautions to prevent
bathroom, avoid dangerous play and toys, avoid exposure to incidents that trigger seizure, pad areas in bed, or wear protective clothing if needed.	injury as a result of a seizure.
Encourage parents to notify school nurse	Promotes knowledge and
and teacher of disorder and actions to take including telephone number to call.	understanding to prevent injury and embarrassment to child.
Discuss any activity restrictions such	Promotes knowledge of activity
as sports, rough play, need for someone in attendance.	based on individual child and seizure activity and response to therapy.
Alert parents of possible changes in	Indicates effects of
behavior, activity, or personality or changes in school performance or interactions with family and peers.	anticonvulsants on behavior and learning.
Refer to resources offering assistance	Provides educational materials,
such as Epilepsy Foundation of	employment, legal services,
America, community support groups.	support, and counseling to families and children.

NIC: Teaching: Prescribed Medication

Evaluation

(Date/time of evaluation of goal)

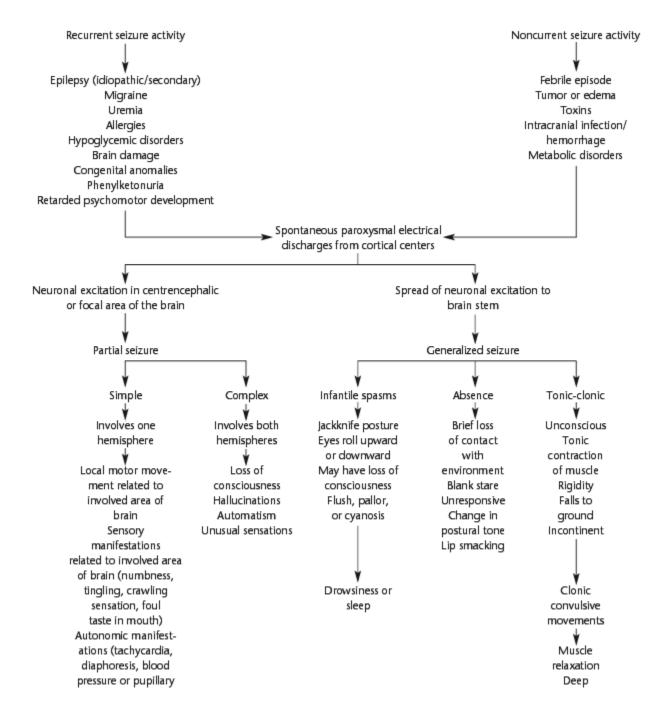
(Has goal been met? Not met? Partially met?)

(What did parents say about the cause of the seizures? What did parents verbalize about medications for child?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR SEIZURES

SEIZURES



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CHAPTER 7.8 - SPINA BIFIDA

INTRODUCTION

Spina bifida is a defect of the central nervous system that involves the failure of neural tube closure during embryonic development. There are two types of spina bifida: spina bifida occulta and spina bifida cystica. Spina bifida occulta is a defect in the closure without the herniation and exposure of the spinal cord or meninges at the surface of the skin in the lumbosacral area. Spina bifida cystica (meningocele or myelomeningocele) is a defect in the closure with a sac and herniated protrusion of meninges, spinal fluid and possibly some part of the spinal cord and nerves at the surface of the skin in the lumbosacral or sacral area.

Hydrocephalus is often associated with spina bifida cystica. The neurologic effects are related to the anatomic level and nerves involved in the defect and range from varying degrees of sensory deficits, to partial or total motor impairment resulting in flaccidity, partial paralysis of lower extremities, and loss of bladder and bowel control. Children with spina bifida cystica, especially myelomeningocele, are commonly afflicted with orthopedic abnormalities that may include hip dislocation, spinal curvatures, or clubfeet and may require assistive devices such as braces, special crutches, or wheelchairs for mobility.

Treatment includes surgical repair of defect as well as other anomalies depending on severity of the neurologic deficit and may be done during infancy or later. Other treatment focuses on prevention of complications, bowel and urinary management, and promotion of optimal growth and development.

MEDICAL CARE

Stool Softeners: prevent constipation and promote bowel rehabilitation.

Antispasmodics: increase capacity or urinary bladder in treatment of bladder spasticity.

Cholinergics: increase urinary bladder tone and prevent retention.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Excretions and secretions.

Defining Characteristics: (Specify: urinary and/or fecal incontinence, redness and irritation of perineal and anal areas, disruption of skin in perineal and anal areas, leakage of CSF from sac, rupture of sac, use of diapers.)

Related to: Physical immobilization and pressure.

Defining Characteristics: (Specify: redness, excoriation at bony prominences or other pressure areas, skin breakdown at pressure points, inability to change position, paralysis.)

Related to: Altered sensation, circulation and skeletal prominence.

Defining Characteristics: (Specify: loss of tactile perception in extremities, pressure on bony prominences, lack of padded protection and massage of bony prominences, improper application of hot or cold.)

See IMPAIRED PHYSICAL MOBILITY

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: inability to purposefully move within physical environment, including bed mobility, transfer, and ambulation, imbalance, impaired coordination, partial or complete paralysis of lower extremities, flaccidity, spasticity, skeletal abnormalities [hip, feet, spine].)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest food.

Defining Characteristics: (Specify: NPO status following surgery, inadequate swallowing or sucking in presence of ICP, reduced muscle tone, abnormal eating pattern development.)

See CONSTIPATION

Related to: Neuromuscular impairment.

Defining Characteristics: (Specify: frequency less than usual, hard, formed stool, palpable mass, inability to maintain normal bowel elimination pattern, poor anal sphincter tone and ability to feel urge to defecate.)

See RISK FOR TRAUMA

Related to: (Specify: weakness, balancing difficulties, lack of safety precautions, cognitive or emotional difficulties, reduced muscle coordination, skeletal abnormalities.)

Defining Characteristics: (Specify: injury from falls, improper use of assistive aids, fractures, mental impairment, loss of tactile sensation, paralysis of extremities.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of disorder or disability before of after surgery.

Defining Characteristics: (Specify: frequent hospitalizations, delay or difficulty in performing skills typical of age group [motor, social or expressive], inability to perform self-care or self-control activities appropriate for age, behavior and/or intellectual deficits.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INFECTION

Related to: Inadequate primary defenses [broken skin, inadequate bladder emptying].

Defining Characteristics: (Specify: breaks or leaks in meningeal sac, abrasion or irritation of sac, contamination of sac or surgical repair by urinary or stool incontinence.)

Goal: Client will not experience infection by (date and time to evaluate).

Outcome Criteria

 $\sqrt{(\text{Specify, e.g., sac is intact and moist. Incision clean, dry, and intact without redness, edema, odor, or drainage; temperature <99° F, WBC < [specify for age].)}$

NOC: Risk Detection

INTERVENTIONS

RATIONAL	ΞS
D	- A -

INTERVENTIONS	RATIONALES
Assess sac for breaks or leakage CSF, irritation of sac redness swelling, purulent drainage at around sac area, fever, irritability, nuchal rigidity, cloudy, foul-smelling urine.	, potential for infection of the
Maintain the infant in prone pos or side-lying, as permitted, w head lower than buttocks or hi slightly flexed with a pad bet the knees; anchor position wit sandbags.	ith prevent possible rupture and ps prevents rolling on side or ween back.
Apply a moist sterile dressing o the sac, use sterile saline or antibiotic solution; ointment ordered may be applied.	that could predispose to
Reinforce moist dressing with dr sterile dressing and change wh needed being careful to avoid to sac by removing moist dress after it has dried.	en capillary action through damage moisture.
Apply a shield over the sac dres and tape a plastic sheet below defect; following surgical clo on the defect, apply a transpa occlusive dressing over the ar below the sac site.	the contamination by urine or sure feces. rent
Alter routine nursing care activ such as feedings, changing lin and comforting as needed.	
Perform handwashing before any c procedure involving the site b or after surgery and carry out sterile technique for all sac wound care.	efore microorganisms to site.

Maintain cleanliness of anal area and apply a sterile shield between anus and sac or wound site.

Administer antibiotics as ordered (specify drug, dose, route, and time).

Following surgical repair of defect, note any changes in wound including redness, swelling, warmth, drainage, fever.

Following surgery, cleanse wound with antiseptic as ordered (specify) and change dressings when needed using sterile technique for at least 24 hours.

Avoid ureteral contamination with stool, perform thorough perianal hygiene as needed.

Teach parents about positioning infant, application of protection around sac (shield, foam rubber doughnut).

Teach parents to cleanse the sac gently with moist cotton balls if soiled, avoid diapering the infant until after surgery and healing has taken place.

Handle infant gently, hold and support back above the defect, or place on pillow in prone position to move from place to place.

Inform parents of signs and symptoms of infection of sac or surgical site, whichever is applicable, that should be reported.

Teach handwashing technique, dressing change, use of clean or sterile linens, gloves, supplies when caring for sac area.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

Prevents contamination by feces
 caused by poor anal sphincter
 control which allows for
 dribbling and incontinence of
 stool.
(Action of drug.)

Indicates wound infection.

Promotes cleanliness of wound and prevents infection (action of drug).

Prevents urinary tract infection.

Prevents damage to the sac and possible infection.

Protects sac from contaminants and maintains cleanliness.

Prevents pressure on the sac area.

Promotes early detection of infectious process for early treatment.

Prevents transmission of infectious organisms; sterile technique may not be needed in giving care after surgery is performed. (Provide data about outcome criteria, e.g., describe sac or incision; what is temperature? WBCs?)

(Revisions to care plan? D/C care plan? Continue care plan?)

HYPOTHERMIA

Related to: Illness.

Defining Characteristics: (Specify: fluid and heat loss from large area of exposed sac, cool skin, body temperature lower than normal range.)

Goal: Infant will maintain temperature by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains above (specify, e.g., 97.8° F).

NOC: Thermoregulation

INTERVENTIONS

RATIONALES

is

Provides information as to

heat loss causing

early intervention.

hypothermia.

temperature.

source of temperature changes which may be low if infection

Provides warmth and reduces the

instability detection for

Provides optimal environmental

Assess temperature q 2 to 4h and	
note lack of stability; assess	
temperature of extremity.	
present.	

- Place infant in an isolette or provide radiant warmer based on hypothermia evaluation keeping sac moist postoperatively.
- Teach parents to take temperature Monitors for temperature and report any decreases or increases. Teach parents in proper amount of
- clothing and room temperature for infant/child (specify).

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature?)

(Revisions to care plan? D/C care plan? Continue care plan?)

BOWEL INCONTINENCE

Related to: Neuromuscular involvement.

Defining Characteristics: (Specify: constant dribbling or involuntary passage of stool, reduced anal sphincter tone and control, skin integrity breakdown caused by continuous contact with liquid stool.)

Goal: Child will have decreased episodes of bowel incontinence by (date and time to evaluate).

Outcome Criteria

 \checkmark Child participates in bowel control regimen.

 \checkmark Child is able to control bowel elimination.

NOC: Bowel Continence

INTERVENTIONS

RATIONALES

- Assess presence of neurogenic bowel, degree of incontinence, potential for rehabilitation.
- Change diapers as quickly as feasible; cleanse perianal area carefully.
- Apply barrier creams (specify) as ordered to perianal area during diapering.
- Place child on a toilet or potty chair at the same time each day; use stimulation and suppository if helpful.
- Maintain fluid intake of up to 2, 000 ml/day depending on age; include fiber and roughage in diet at regular times of the day.
- Apply padding in waterproof undergarments but avoid use of diapers.
- Teach parents and child about program for control of bowel incontinence (fluids, diet, routine toileting, use of stimulation).
- Teach about behavior modification as a method to be used for bowel rehabilitation.
- Suggest clothing and undergarments to protect from staining accidents.
- Instruct parents on proper

condition for use in plan of establishing bowel elimination routine. Dry, clean skin resists breakdown. Prevents skin breakdown

Provides information about

- Prevents skin breakdown (action).
- Establishes a routine for elimination to empty bowel.
- Promotes bulk for easier and more manageable passage.
- Prevents embarrassment for the child if bowel elimination not controlled. Promotes success in bowel training.
- Promotes compliance with routine to control bowel incontinence. Promotes self-image and prevents embarrassing incidents. Promotes understanding to

cleansing and diapering main techniques of infant/toddler. inte

maintain good skin integrity.

NIC: Bowel Incontinence Care

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Does child participate in bowel control regimen? Has child achieved control? Provide data.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED URINARY ELIMINATION

Related to: Neuromuscular defect.

Defining Characteristics: (Specify: incontinence, retention, neurogenic bladder with increased or decreased tone [flaccid or spastic], absence of awareness of bladder fullness, passing of urine or ability to stop flow of urine [reflex incontinence].)

Goal: Child will have improved urinary elimination by (date and time to evaluate).

Outcome Criteria

 $\sqrt{($ Specify outcome criteria appropriate for individual child: e.g., learns to perform self-catheterization or maintains a daily urinary elimination pattern.)

NOC: Urinary Elimination

INTERVENTIONS

Assess presence of neurogenic bladder, degree of incontinence, potential for rehabilitation, age of child.

Assess urine for cloudiness, foul odor, fever, lethargy, dysuria, retention.

Offer and encourage intake of 30 ml/ lb/day including acid-containing beverages and dietary inclusion of foods high in acid content. Maintain clean genital and anal area after each elimination episode or as needed if incontinent.

RATIONALES

- Provides information about condition for use in plan of establishing urinary elimination routine. Indicates urinary bladder infection caused by urinary retention or residual resulting in urinary stasis and medium for bacterial growth. Promotes renal blood flow and acidifies urine to prevent infection. Controls introduction of
- microorganisms into urethra and urinary bladder.

Catheterize after urination if indicated and ordered.

Perform scheduled rehabilitation program of placing child on toilet or potty chair at same times each day.

- Perform intermittent catheterization q 3 to 4h if indicated to resolve incontinence.
- Perform Crede's maneuver if indicated.

Administer antispasmodic, smooth muscle relaxant, anticholinergic as ordered (specify drug, dose, route, and time).

Teach parents and child (age dependent) in use of external urinary device or procedure for intermittent self-catheterization; demonstrate and allow for return demonstration.

Teach about rehabilitative program of toileting and using Crede's method.

Encourage parents to avoid use of diapers for child over 3 years of age; suggest pad and water-proof undergarment as an alternative.

Inform parents of other methods available including implantation of an artificial sphincter, creation of an artificial reservoir, or creation of a urinary diversion to control incontinence.

Teach parents and child about changes in urine characteristics indicating bladder infection and measures to take to prevent this complication.

Encourage to monitor fluid intake/ day, weights and changes to report, foods and fluids that are acidic including citrus fruits, meat, eggs, cheese, prunes, breads.

NIC: Urinary Elimination Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

Moves residual urine if unable to empty bladder completely. Establishes a routine for urinary elimination if this is a possibility.

Ensures emptying of bladder to prevent incontinence and infection. Promotes emptying of bladder.

Improves bladder storage and continence by increasing bladder (action).

Provides method for emptying bladder routinely or managing incontinence by use of collecting device connected to a closed system.

Provides an alternate method of controlling incontinence although may be temporary. Causes embarrassment for child.

Provides information about procedures that can be done if intermittent catheterization is not successful.

Allows for early interventions to control infection and eventual renal complications.

Maintains a monitoring system to ensure control of possible complications. (Provide data about specific outcome criteria for child; e.g., did child learn self-catheterization or maintain a bladder elimination pattern?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED BODY IMAGE

Related to: Biophysical, psychosocial factor of child.

Defining Characteristics: (Specify: urinary/bowel incontinence, partial or complete paralysis, recurring hospitalizations, change in social, verbal expression of negative feelings about body and functional disabilities, feelings of helplessness and hopelessness, inability in performing ADL.)

Goal: Child will experience improved body image by (date and time to evaluate).

Outcome Criteria

 \checkmark Child expresses feelings about disability.

 \checkmark Child identifies at least 1 positive thing about own body.

NOC: Body Image

INTERVENTIONS

RATTONALES

INTERVENTIONS	RATIONALES
Assess child for feelings about abilities and disabilities in ADL, social interaction, effect on self-concept.	Provides information about potential for independence in thinking and functioning.
Encourage independence and maximize functioning with use of aids for bathing, grooming, dressing, eating, mobility, toileting, and praise any attempts at self-care activities.	Promotes ADL capability by use of assistive aids as needed depending on disability.
Encourage expression of feelings and concerns and support communication of child with parents and peers.	Provides opportunity to vent feelings to reduce anxiety and negative feelings.
Provide touch and hugging, age- appropriate activities with other children.	Conveys caring and concern for child and enhances socialization.
Stress and mention positive accomplishment; avoid negative comment.	Enhances body image and confidence.
Instruct in use of assistive aids for ADL.	Promotes independence and enhances body image.
Encourage parents to maintain support and care for child.	Encourages acceptance of child.
Advise parents to maintain same behavior rules for child as other	Provides sense of belonging to family.

children in family and to integrate care and activities into family routines.

NIC: Self-Esteem Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What feelings about disability did child verbalize? What positive thing about body did child identify? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

INTERRUPTED FAMILY PROCESSES

Related to: Situational crisis of long-term condition of child.

Defining Characteristics: (Specify: family system unable to meet physical, emotional needs of its members, inability to express or accept wide range of feelings, family unable to deal with or adapt to chronic condition and disabilities of child in a constructive manner, excessive involvement with child by family members, guilt expressed by family members, lack of support from family and friends, irritability and impatience as a response by family members to child.)

Goal: Family will adapt to child's disability and begin to move forward by (date and time to evaluate).

Outcome Criteria

 \checkmark Family discusses disability and effect on individuals and the family system.

 \checkmark Family identifies ways to cope with chronic illness.

 \checkmark Family members exhibit positive feelings for each other.

NOC: Family Normalization

INTERVENTIONS

RATIONALES

Assess family ability to cope with child, stress on family relationships, developmental level of family, response of siblings, knowledge of health practices, family role behavior and attitude about long-term care, economic pressures, resources to care for long-term condition and grieving Provides information about family attitudes and coping abilities that directly affect the child's health and feeling of wellbeing; chronic condition affecting a child in a family may strengthen or strain relationships and members may develop emotional problems when family is stressed. process, signs of depression, feelings of powerlessness and hopelessness.

Assess anxiety level of family and child, perception of crisis situation, coping and problemsolving methods used and effectiveness.

Encourage expression of feelings and provide factual, honest information about care with or without surgical repair, abilities and disabilities.

Assist to identify helpful techniques to use to problem solve and cope with problem and gain control over the situation.

Provide anticipatory guidance for crisis resolution.

If hospitalizations frequent, assign same personnel to care for child if appropriate.

Support and encourage parental and family caretaking efforts.

Encourage family members to express feelings and reaction to appearance and condition of infant/child.

Communicate empathy for patient and family.

Be aware of cultural differences in coping behaviors; needs differ according to cultural and ethnic backgrounds.

Assist family with identifying realities of disabilities and suggest contact with community agencies, clergy, social services, physical and occupational therapy including Spina Bifida Association of America.

Assist to discuss family dynamics and need to tolerate conflict and individual behaviors.

Reinforce positive coping behaviors.

Teach that overprotective behavior may hinder growth and development and that child should have limits and rules to live by.

Encourage to maintain health of family

Identifies need to develop new coping skills and realistic behaviors in goal setting and interventions necessary for family and child to adapt to crisis.

Allows reduction in anxiety and enhances family understanding of condition and child's needs.

Provides support for problem solving and management of situation.

Assists family to adapt to situation and develop new coping mechanisms. Promotes trust and communication

with family members.

Provides positive reinforcement of roles and reduces stress in family members.

Relieves anxiety and concern and allows a show of acceptance for their responses.

Promotes coping and positive adjustment to illness.

Promotes cultural and developmental normalcy.

Provides support, information and assistance.

Assists to understand the family behaviors leading to resolution.

Promotes behavior change and adaptation to care of child. Enhances family understanding of condition and need for integration of child into family activities. Prevents adverse effect of chronic

members and social contacts.	anxiety, fatigue, and isolation on health and care capabilities of family.
Explain causes, treatment and prognosis of condition; inform parents that they are not at fault for development of the congenital defect.	Reduces guilt and provides information about condition.
Inform parents that surgery may be performed within 48 hours after birth or be delayed to age of 3 months or until further neurologic function is assessed, to allow for better epithelialization to occur, and to reduce the possibility of the development of hydrocephalus; use this information as reinforcement of physician information.	Provides information to assist family in decision about surgical procedure.
Inform need for follow-up appointments with physician and therapists.	Ensures compliance with medical regimen.

NIC: Family Involvement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did family discuss disability and the effect on the family? Provide quotes. What ways did the family identify to cope with illness? Describe family behaviors towards each other.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: Repeated exposure to latex products and development of latex allergy.

Defining Characteristics: (Specify: child exhibits symptoms such as: sneezing, coughing, rashes, hives, wheezing when handling products made of rubber (balloons, tennis balls, Band-Aids) or when exposed to hospital products that contain latex such as gloves, catheters, and so forth.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Child will not be exposed to latex in any form.

NOC: Risk Detection

INTERVENTIONS

Identify children with latex allergy; children with this allergy should wear a form of identification such as a medical bracelet.

Maintain an environment that is latex-free, especially with highrisk populations (children with spina bifida, for example). Do not allow latex balloons in hospital environment.

Keep emergency equipment nearby, including equipment needed to treat an anaphylactic reaction.

Ask all patients admitted about reactions to latex allergy during all initial interviews.

RATIONALES

Promote expediency in treatment if a reaction occurs; may prevent an allergic reaction.

Prevent development of latex allergy; prevent allergic reaction in those who are already sensitized.

Promote prompt emergency treatment.

Promotes screening of all patients which may prevent severe allergic reactions in otherwise low-risk patients.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

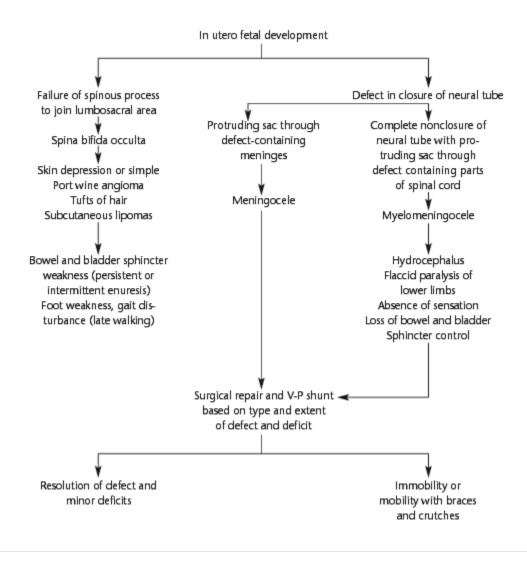
(Has goal been met? Not met? Partially met?)

(Was child exposed to latex?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR SPINA BIFIDA

SPINA BIFIDA



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UNIT 8 - HEMATOLOGIC SYSTEM

CHAPTER 8.0 - HEMATOLOGIC GROWTH AND DEVELOPMENT

INTRODUCTION

The hematologic system includes the blood (plasma and cells) and the blood-forming tissues/organs (red bone marrow, lymph, lymph nodes, spleen, thymus, and tonsils). The cellular portion of the blood contains the erythrocytes (RBC), leukocytes (WBC), and thrombocytes (platelets). The plasma portion contains water and solutes, which include albumin, electrolytes, and proteins (clotting factors, fibrinogen, globulins, and antibodies). The system provides the body with specialized cells to transport oxygen, nutrients, and other substances to all the tissues; assist in clotting to prevent blood loss; and provide protection to the body from infectious agents (immunologic function). Children are vulnerable to disorders common to the system such as anemia, immunologic disorders, hemostatic problems, and malignancies involving the lymphatic system and blood cell production.

GROWTH AND DEVELOPMENT

• Blood volume of full-term newborn averages 300 ml.

• Fetal hemoglobin is present for 5 months; adult hemoglobin forms at 13 weeks of age.

• Hemoglobin is at its lowest between 4 and 6 months of age because maternal iron stores in the infant have been used up and this accounts for the lower hemoglobin at 6 months of age.

• Erythrocyte production increases rapidly after birth and results in an increase in reticulocytes (immature RBC).

• The life span of a RBC is 120 days, of a granulocyte 4 to 5 days, of an agranulocyte a half-life is 60 to 90 days, and of a platelet 8 to 10 days.

• Cell-mediated immune responses are deficient in the infant; immunoglobulin A (IgA) appears in the blood serum at 1 month of age and adult levels are reached at 10 years of age.

• Phagocytic action of neutrophils and monocytes is not at full strength in the newborn, so inflammatory response is less effective than in an older infant or child.

• By 5 months of age, immunoglobulin level is based on antibodies made by the infant's own system, but the child/adult level is not attained until 1 year of age.

• Lymphoid tissue (thymus, tonsils, adenoids, spleen, lymph nodes) grows rapidly during infancy and reaches peak growth at 12 years of age; it filters and traps pathogens before they enter the bloodstream.

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CHAPTER 8.1 - HIV/AIDS

INTRODUCTION

Acquired immunodeficiency syndrome (AIDS) is caused by HIV (human immunodeficiency virus). HIV has been found in blood and bodily fluids (semen, saliva, vaginal secretions, urine, breast milk, and tears). Transmission of HIV can occur by 3 primary modes: exposure by sexual contact, IV exposure to blood, or perinatal exposure from an HIV-infected mother to her infant. In children and adolescent age groups 3 populations have been identified: 1) children exposed in utero from an infected mother; 2) children who have received blood products, especially children treated with hemophilia (before testing of blood products began in 1985); and 3) adolescents who are infected after engaging in high-risk behaviors (i.e., sharing of needles for injection of drug use; accidental needle sticks; unprotected sex and multiple sexual partners). Polymerase chain reaction (PCR) tests are very accurate in detecting HIV in infected infants (95% by 1 month).

Diagnosis of AIDS in children under 13 years of age, based on the Centers of Disease Control (CDC) criteria, include the presence of one of the following: 1) confirmed HIV in blood or tissues; 2) symptoms meeting the CDC criteria; or 3) HIV antibody and one or more of the following disorders: secondary infectious diseases, recurrent bacterial infections, or secondary cancers. Diagnosis of AIDS in children over 13 years of age and above is based on the CDC adult criteria. Children with HIV infection usually have detectable HIV antibody 6 to 12 months after exposure (except for infants of HIV-positive mothers). The diagnosis process for infants of HIV seropositive mothers, in the first 15 months of life, is difficult because of the presence of maternal antibody.

Infants with perinatal acquired AIDS are normal at birth but may develop symptoms within the first 18 months of life. Clinical manifestations in children include: fever; decreased CD4 count; anemia; decreased WBC count (less than 3,000 cells/mm³); neutropenia (absolute neutrophil count of less than 1,500 cells/mm³); thrombocytopenia; myelosuppression; vitamin K deficiency; hepatitis; pancreatitis; stomatitis and esophagitis; meningitis; retinitis (common with low CD4 counts); otitis media and sinusitis (chronic or recurrent); lymphadenopathy; hepatosplenomegaly; recurrent bacterial infections (especially, *Streptococcus pneumoniae* and *Haemophilus influenzae*); Mycobacterium infections (MAC) or tuberculosis; cytomegalovirus (CMV); failure to thrive (in infants); chronic diarrhea; neurologic involvement, (developmental delays and microcephaly in infants, or loss of motor skills in the older child); and pulmonary infections (*Pneumocystis carinii* [PCP], lymphocytic interstitial pneumonitis [LIP], and pulmonary lymphoid hyperplasia [PLH]). Kaposi sarcoma, a hallmark of adults with HIV, is rare in children with HIV. A major success in pediatric HIV is the recognition that a majority (from 25% to 8%) of perinatal transmissions can be prevented with prophylactic zidovudine therapy.

MEDICAL CARE

Diagnostic Tests for HIV in Children: enzyme-linked immunosorbent assay (ELISA) detects HIV antibodies; Western blot (detects serum antibody bound to specific HIV antigens); immunofluorescence assays. Because of the presence of maternal antibodies for newborns, the polymerase chain reaction (PCR assay) is required.

Medical Management: there is no cure for HIV. Medical care is directed at slowing the virus, preventing and treating the opportunistic infections, nutritional support, and symptomatic treatment. Combination drug therapy with antiviral therapy is recommended, with at least two antiviral drugs.

Antiretroviral Medications: drugs and treatment regimens are continually evolving. Currently recommended drugs include nucleoside analogue reverse transcriptase inhibitors (NRTIs, e.g., zidovudine), non-nucleoside analogue reverse transcriptase inhibitors (NNRTIs), and protease inhibitors (PIs).

IVIG (intravenous gamma globulin): may be helpful to decrease opportunistic infections.

Trimethoprim-Sulfamethoxasole: used for prevention/treatment of Pneumoncystis carinii.

Immunizations: Immunizations should be given as recommended for all children, except no chickenpox (varicella) vaccine, inactivated poliovirus (IPV) instead of oral poliovirus (OPV); and pneumococcal and influenza vaccine are recommended; Varicella zoster immune globulin should be given within 96 hours of chickenpox exposure.

Acyclovir: as prophylaxis for herpes infections.

Complete Blood Count (CBC): reveals increased WBC in infections, decreased T-helper lymphocytes.

Immunoglobulins (Ig): reveal increased levels.

COMMON NURSING DIAGNOSES

See INEFFECTIVE AIRWAY CLEARANCE

Related to: (Specify: infection, obstruction, secretions, decreased energy, and fatigue.)

Defining Characteristics: (Specify: abnormal breath sounds; changes in rate, ease, and depth of respirations; tachypnea; fever; weakness; ineffective cough with or without sputum.)

See INEFFECTIVE BREATHING PATTERN

Related to: Illness.

Defining Characteristics: (Specify: increase in body temperature above normal range, increased respiratory rate, tachycardia.)

See DIARRHEA

Related to: Inflammation, irritation of bowel.

Defining Characteristics: (Specify: chronic, increased frequency of loose, liquid stools; cramping; abdominal pain.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: inability to ingest, digest, or absorb nutrients.)

Defining Characteristics: (Specify: anorexia, weight loss, lack of interest in feeding, failure to thrive, child's growth begins to slow or weight begins to decrease.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Neurologic involvement (75% to 90% of HIV infected children).

Defining Characteristics: Developmental delays or, after achieving normal development, loss of motor milestones; microcephaly (in HIV infected infants); and abnormal neurologic examination findings.

ADDITIONAL NURSING DIAGNOSES

ANXIETY

Related to: (Specify: change in health status, threat of death, threat to self-concept, fear of interpersonal transmission and contagion.)

Defining Characteristics: (Specify: increased apprehension and fear of diagnosis; expressed concern and worry about early death, effect of lifestyle changes on physical and emotional status, possible opportunistic infections.)

Goal: Clients will experience decreased anxiety by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients explore feelings about the child's illness.

 \checkmark Clients report decreased anxiety.

NOC: Anxiety Control

INTERVENTIONS RATIONALES Assess level of anxiety of parents Provides information about source and child and how it is and level of anxiety and need for interventions to relieve it; manifested; and need for information that will relieve sources for the child may be anxiety. procedures, fear of mutilation or death, unfamiliar environment of hospital, and may be manifested by restlessness and inability to play, sleep, or eat. Refer for special counseling or Reduces anxiety, supports family social services as needed. coping with illness, and promotes adjustment to lifestyle changes. Provides opportunity to vent Encourage open expression of concerns about illness, feelings and fears to reduce procedures, treatments, and anxiety. prognosis. Communicate with child at Promotes understanding and trust. appropriate age level and answer questions calmly and honestly; use pictures, models, and drawings for explanations. Allow child as much input in Allows child more control and decisions about care and routines independence in situations.

as possible. Encourage parents to stay with child and have open visitation, provide a telephone number to call for information.	Promotes parental care and support.
Teach parents and child about the disease process, treatments, and therapy.	Promotes understanding that will relieve fear and anxiety.
Explain all procedures, treatments, and care in simple, direct, honest terms, and repeat as often as necessary; reinforce physician information if needed; provide specific information as needed.	Supplies information about all diagnostic procedures and tests.
Reassure parents and child that all information about the disease will be kept confidential.	Decreases anxiety associated social attitudes about the disease and those infected with it.
Refer to local and national AIDS groups and agencies to contact for assistance.	Provides information and support from those in similar circumstances.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients explore feelings about child's illness? Did clients report decreased anxiety? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ANTICIPATORY GRIEVING

Related to: (Specify: perceived potential loss of infant/child by parents, perceived loss of physiopsychosocial well-being by child.)

Defining Characteristics: (Specify: expression of distress at potential loss, fatal prognosis of the disease, premature death of child.)

Goal: Clients will begin the grieving process by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize the stages of the grieving process.

 \checkmark Clients identify support systems they may use for grief.

NOC: Family Coping

INTERVENTIONS

Assess stage of grief process, problems encountered, feelings regarding long-term illness and potential loss.

Provide emotional and spiritual comfort in an accepting environment and avoid conversations that will cause guilt or anger.

Encourage parents' and child's responses and expressions of feelings such as concern, fear, anxiety, or guilt.

Assist in identifying and using effective coping mechanisms and in understanding situations over which they have no control.

Allow for discussion of likelihood of child's death with parents and child, if appropriate, and encourage them to discuss this with family members, friends.

Refer to social, psychological, clergy services, or counseling as appropriate.

Teach parents about stage of grieving process and of behaviors that are common in resolving grief.

Assist parents and child to identify coping skills, problem-solving skills, and approaches that may be used.

Refer to AIDS groups and agencies for social, economic, legal aid; family and friends for support.

RATIONALES

Provides information about stage of grieving; time to work through the process varies with individuals as they move toward acceptance. Provides for emotional needs of parents and child as appropriate, and helps them to cope with illness and its implications without adding stressors that are difficult to resolve. Promotes ventilation of feelings. Promotes constructive use of coping skills. Presents realistic view of probable outcome of illness. Provides support and information to child and family if need assistance.

Promotes understanding of feelings
 and behaviors that are
 manifested by grief.
Promotes coping ability over
 period of prolonged illness and
 assists in resolving family

stress.

```
Provides support for family and child as needed.
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NIC: Grief-Work Facilitation

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients verbalize the stages of grieving? Did clients identify support systems? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Inadequate secondary defenses (immunosuppression).

Defining Characteristics: (Specify: presence of infective organism, opportunistic infectious process and malignancy, expressed need for information about transmission prevention.)

Goal: Client will not experience opportunistic infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains (specify for child).

 \checkmark WBC level remains > (specify for child).

 \checkmark CD4 T-lymphocyte level remains > (specify).

NOC: Risk Control

INTERVENTIONS

RATIONALES

- Assess CBC lab values; assess CD4 Tlymphocyte counts; assess blood culture for opportunistic infections; assess vital signs, as ordered, to identify changes in respirations or lung sounds.
- Assess for fever, malaise, fatigue, night sweats, weight loss, chronic diarrhea, oral infection or lesions, pain in joints and muscles, lymphadenopathy, upper and lower respiratory infections.
- Provide protective isolation for immunosuppressed child; use gloves, mask, and gown for visitors; and during care, proper handwashing when needed.
- Wear gloves for all care, when in contact with body fluids (changing diapers, handling any secretions or

- To identify abnormal range of lab values related to infection or anemia; early recognition of organisms will expedite appropriate treatment of infections; early recognition of signs of pulmonary infections will expedite treatment for pulmonary changes. Provides information about signs and
- symptoms of infection during the (prodromal) stage of AIDS with responses that are age-dependent at onset of AIDS in infants/ children: long-term opportunistic infections, including Pneumocystis carinii pneumonia, Kaposi's sarcoma, and lymphoma. Protects child from contact with
- infectious process in others.
- Prevents transmission of virus to personnel or caretaker; follows guidelines published by the

excretions); do not recap needles; Centers for Disease Control. clean all spills and disinfect article or area; use bleach solution in home; wash, disinfect, or dispose of all contaminated articles used; double bag all linens and specimens with proper precautionary labeling. Use medical or surgical asepsis for all procedures and care as to child. appropriate. Administer medications as ordered to control disease progression or treat any infection as ordered (specify). (action of drug). Restrict contact with persons with infections or illnesses, have child to child. to share room with another child who does not have an infection. Teach parents and child of possible source for infection and risk of spread or transmission of infection. infection. Teach parents and child about isolation to prevent contact with techniques. sources of potential infections (i.e., infected persons or contaminated articles). Inform parents and child of diagnostic and reporting methods, signs and preventive measures. symptoms of specific diseases, risk factors in acquiring or transmitting disease and potential complications. Teach parents and child about highcalorie protein diet with food selections and sample menus. infection. Teach parents and child to avoid family members, friends, peers, or others with infections or illnesses. system. Teach parents and child handwashing technique. via the hands. Using written guidelines offered by Centers for Disease Control, others. instruct in care of bodily fluids, use of gloves, cleansing and care of articles used, disposal methods, care of linens, clothing, specimens, mode of transmission to others. Encourage parents to contact school nurse and discuss child's needs and

Prevents transmission of pathogens Prevents or treats infectious process, compensates for immunosuppression by improving functioning of immune system Prevents transmission of infection Promotes understanding and cooperation in treatments and procedure, prevents spread of existing infection or risk of new Promotes compliance with isolation Provides information about the disease causes, treatment, and Assists in maintaining nutritional status necessary to fight Prevents exposure to others with infection that may be transmitted to child with a compromised immune Prevents transmission of pathogens Prevents transmission of virus to

Promotes safety of child and possible contacts; attendance is

guidelines for school attendance.	recommended by physician as long as child has control of body secretions, and does not bite or have open lesions.
Teach parents and child about immunization needed to prevent infectious disease.	Protects child from infectious diseases (pneumonia and influenza).
(If appropriate, inform child of precautions to take if sexually active [condom use] or if using drugs [not sharing needles].)	Prevents transmission of virus to others by taking appropriate precautions.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? What is WBC level? CD4 T-lymphocyte level?)

(Revisions to care plan? D/C care plan? Continue care plan?)

SOCIAL ISOLATION

Related to: (Specify: altered state of wellness, unaccepted social behavior, low blood count precautions, repeated hospitalizations, social stigma of HIV, physical limitations.)

Defining Characteristics: (Specify: protective isolation; absence of support by family, friends, others; seeks to be alone; expresses feelings of rejection, indifference of others; aloneness; withdrawal; displays behavior unaccepted by dominant culture; evidence of altered state of wellness.)

Goal: Clients will experience increased social support by (date and time to evaluate).

Outcome Criteria

 $\sqrt{($ Specify for clients, e.g., child returns to school, family reports support from friends, etc.)

NOC: Social Involvement

INTERVENTIONS

RATIONALES

Assist child to identify personal	To increase child's
strengths to facilitate enhanced	self competence and increase
coping.	child's self-esteem.
Assess child and family for feelings	Provides information about extent
about stigma associated with the	of isolation felt by the family
disease, rejection by others.	and child.
Provide accepting, warm environment	Promotes trust and comfort to

for child a	and parents	to express
their feel	lngs.	

Encourage child to interact with peers, attend school and activities. development.

Reinforce peers, school nurse and personnel about AIDS and safe activities for child and other children.

Discuss with child and parents misconceptions that the public has and ways to correct the situation by providing information about causes and mode of transmission and by answering questions and concerns.

Reassure parents and child that confidentiality will be maintained at school and elsewhere if needed. enhance adaptation to presence of positive testing or actual symptoms of the disease. Promotes feeling of belonging, and provides growth and

Provides information and education about AIDS.

Promotes correct information dissemination and dispels myths about the disease, thereby reducing fear and rejection by others.

Protects child from stigma associated with the disease.

NIC: Support System Enhancement

Evaluation

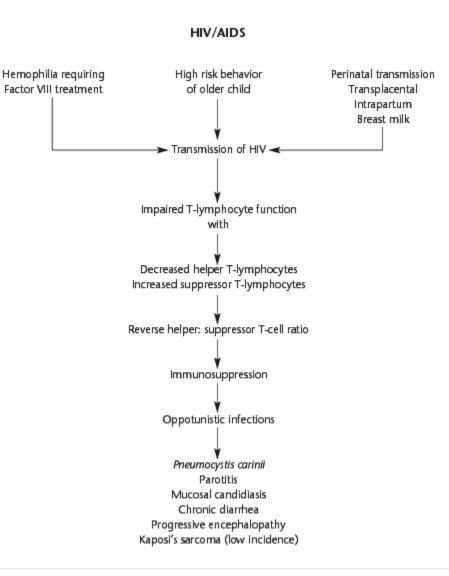
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data based on the outcome criteria selected, e.g., did child return to school? Did family report support of friends? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HIV/AIDS



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CHAPTER 8.2 - ANEMIA

INTRODUCTION

Anemia is the most common group of hematologic disorders of infancy and childhood. The term anemia refers to a reduction in either the total number of circulating red blood cells (RBC) or a decrease in the concentration of hemoglobin (Hgb). The etiology of anemia is divided into 3 categories: 1) excessive blood loss (acute or chronic hemorrhage), 2) increased destruction of RBCs (or hemolysis), or 3) impaired or decreased rate of production (or bone marrow failure). The following three types of anemia are included here: iron deficiency, sickle cell anemia, and aplastic anemia.

Iron deficiency anemia is primarily caused by an inadequate intake of dietary iron. The iron stores of the full-term infant normally meet the infant's nutritional needs until 6 months of age. In comparison, the iron stores for the premature infant normally is depleted by 2 to 3 months of age (milk is iron-poor). Treatment consists of iron supplementation and optimum nutrition.

Sickle cell anemia (Hgb SS) is referred to as a genetic disease of autosomal dominant inheritance (and a sickling hemoglobinopathy syndrome). Hgb SS is caused by the substitution of a single amino acid (valine replaces glutamic acid) at the sixth position of the B-chain. It occurs primarily in the black race and symptoms appear usually after 4 to 6 months of age because of the presence of fetal hemoglobin earlier. Treatment consists of prevention/treatment of sickle cell pain crisis; and supportive/symptomatic measures.

Aplastic anemia is defined as bone marrow failure characterized by the reduction or absence of the solid elements of the blood (red cells, white cells, and platelets). There are two types: primary (congenital or Fanconi anemia, an inherited autosomal recessive trait) or secondary (acquired, caused by exposure to toxins in the environment or a complication of an infection). Symptoms occur in the acquired type after exposure to a toxin or infection and in the congenital type usually after 17 months of age. Treatment is directed at restoration of bone marrow function, by two approaches: immunosuppressive therapy and replacement of the bone marrow through bone marrow transplantation.

MEDICAL CARE

DIAGNOSTIC EVALUATION FOR IRON DEFICIENCY ANEMIA

Red Cell Smear: examines the red cell shape and content (i.e., MVC and MCH).

Free Erythrocyte Protoporphyrin (FEP): elevated FEP is associated with an inadequate iron supply.

Serum-Iron Concentration (SIC): measures circulating iron (normal: 70% ug/dl in infants).

Total Iron-Binding Capacity (TIBC): measures transferrin (iron-binding globulin) for iron transport. Transferrin saturation: divide the SIC by the TIBC and multiplying by 100; (10%—suggests anemia).

TREATMENT FOR IRON DEFICIENCY ANEMIA

Iron Supplements: ferrous sulfate for prevention/treatment of iron deficiency.

Vitamin C Supplements: may enhance iron absorption.

DIAGNOSTIC EVALUATION FOR SICKLE CELL ANEMIA

Stained Blood Smear: will reveal a few sickled RBCs; it is not 100% accurate.

Sickle-Turbidity Test (Sickledex): a reliable screening method for the sickle cell trait or disease.

Hemoglobin Electrophoresis: is an accurate, rapid, and specific test for detecting the homozygous and heterozygous forms of sickle cell anemia.

TREATMENT FOR SICKLE CELL ANEMIA

Hydration: given for hemodilution to treat/prevent sickle cell crisis.

Analgesics: to prevent/treat pain crisis.

Immunizations: should receive all recommended childhood immunizations; should also receive: pneumococcal (at 2 years of age and a booster at 5 years of age); *Haemophilus influenzae*, type B (is given to all infants at 2 months of age); and meningococcal vaccine (at 2 years of age).

Folate Replacement: is given for the treatment of aplastic type of sickle cell crisis.

Blood Transfusions: packed RBC transfusions are used to replace prematurely destroyed red cells and to diminish the percentage of hemoglobin S (sickled hemoglobin). It is primarily used with severe complications (i.e., stroke, progressive hypoxia, pulmonary disease, or in severe hemolysis).

DIAGNOSTIC EVALUATION FOR APLASTIC ANEMIA

Red Cell Indices: examine an elevated MCV (mean corpuscular volume of the RBC).

Hgb Electrophoresis: will reveal an abnormally high fetal hemoglobin.

Chromosomal Studies: will reveal multiple chromosomal abnormalities.

CBC: evaluation of lab values characteristic of anemia, leukopenia, and decreased platelet count.

Bone Marrow Aspiration: examination confirms hypocellularity and fatty replacement of bone marrow (conversion of red bone marrow to yellow, fatty bone marrow).

TREATMENT FOR APLASTIC ANEMIA

Anti-Lymphocyte Globulin (ALG) or antithymocyte globulin (ATG): suppresses T-cell-dependent autoimmune responses, (based on theory that aplastic anemia is caused by an autoimmune response).

Androgens: may be used with ATG, may stimulate erythropoiesis.

Immunoglobulin: (IV) has been successful in the acquired type of aplastic anemia (of infectious origin).

Bone Marrow Transplantation: is the treatment of choice for severe aplastic anemia. It is the only mode of treatment which may result in a cure

of this disease. Prognosis is highly correlated with the number of pretransplant transfusions (better to consider early in the course of the disease).

COMMON NURSING DIAGNOSES

See INEFFECTIVE TISSUE PERFUSION

Related to: Impaired oxygen-carrying capacity of the blood.

Defining Characteristics: (Specify: *in iron deficiency anemia:* irritability, anxiety, blood loss in the stool, hypochronic RBCs, normal or near normal RBC count, decreased serum ferritin and iron; *in sickle cell anemia:* pallor, weakness, anorexia, easy fatigability, jaundice and developmental delays; *in aplastic anemia:* pallor, fatigue, weakness, loss of appetite, normochromic, normocytic RBCs in reduced numbers, leukopenia, thrombocytopenia [risk of spontaneous bleeding or bleeding after mild to severe trauma].)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Impaired kidney function to concentrate urine (in the sickle cell patient).

Defining Characteristics: (Specify: dilute urine or low specific gravity; diuresis; enuresis; dehydration [dry mucous membranes; dry diapers and sunken fontanel in the infant]; prone to dehydration from environmental factors [i.e., overheating].)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inadequate ingestion of iron.

Defining Characteristics: (Specify: in iron deficiency: underweight or may be overweight [because of excessive cow's milk ingestion]; fecal loss of blood; pallor; poor muscle development; prone to infections; inadequate intake of iron-rich foods; weakness.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Allergic response.

Defining Characteristics: (Specify: itching, rash, urticaria, face and lymph node swelling; sclerosing from extravasation at venous access when receiving ATG.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Tissue anoxia.

Defining Characteristics: (Specify: communication of pain descriptors, guarding and protective behavior of area, soft tissue swelling, warmth over painful area, crying, clinging behavior.)

Goal: Client will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Pain rating is decreased to (specify level and pain scale used).

NOC: Pain Level

INTERVENTIONS

RATIONALES

Assess for location, severity, and duration of pain (specify frequency).	Provides information about pain caused by vasoocclusion resulting from RBC sickling, ischemia, and necrosis in soft tissue, joints, abdomen, back, or wherever occlusion occurs.
Administer analgesics as ordered (specify); administer intermittently over 24-hour period before pain becomes severe rather than wait for request or complaint from child.	Controls pain and promotes comfort.
Provide rest periods, refrain from disturbing child unless necessary.	Decreases stimuli that increase pain and promotes rest, decreases oxygen expenditure.
Apply dry heat to area and note response of pain decrease.	Promotes vasodilation and circulation to area to reduce pain.
Maintain position of comfort, handle painful areas gently, and support with pillows.	Promotes comfort and prevents pain from movement.
<pre>Inform parents and child of cause of pain, methods to control it. Teach parents to avoid situations that cause stress for the child, and clothing or positions that restrict and impede blood flow.</pre>	Provides information and rationale for treatment. Provides measures to control sickling, which results in pain.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

ACTIVITY INTOLERANCE

Related to: Generalized weakness, imbalance between oxygen supply and demand.

Defining Characteristics: (Specify: reduced oxygen delivery to tissues from reduced RBC or RBC sickling; fatigue; verbalization of weakness; changes in respiratory rate, depth, and ease; irritability; low tolerance to activity; increased pulse.)

Goal: Child will increase activity to (specify level and date and time to evaluate).

Outcome Criteria

 \checkmark (Specify for child, e.g., is able to play a game; feed self, etc.)

NOC: Activity Tolerance

INTERVENTIONS

RATIONALES

brain.

tissues.

- Assess temperature, respirations, and pulse; changes in behavior (irritability, lightheadedness, short attention span); if easily fatigued, unable to sleep, or weak; ability to tolerate any activity or ADL.
- Assist with activities that require exertion and are beyond tolerance and ability.
- Provide rest periods, plan care and activities around rest/sleep.
- Provide appropriate quiet play and activities, and allow interaction with child of same age, if possible (specify).
- Administer oxygen therapy as ordered (specify).
- Administer transfusion of blood, packed RBC, platelets as ordered (specify).
- Teach parents and child how to conserve energy and increase endurance of child, including placing articles within reach, anticipating needs and assisting before child attempts activity, allowing for rest; remain with child as needed.
- Provides supplemental oxygen, if needed, to treat hypoxia. Replaces blood or blood components depending on type of anemia and need. Provides information to prevent fatigue by minimizing physical activity or exertion, which utilizes more oxygen.

Provides information about VS changes caused by hypoxia and

Minimizes physical exertion,

which increases oxygen to

Decreases oxygen expenditure to

enhance tissue oxygenation.

Promotes diversionary activity

and prevents withdrawal.

about behavior changes caused

by reduced oxygenation of the

Encourage parents to avoid stressful Promotes quiet environment for situations. child.

NIC: Energy Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is child able to do? Provide data related to outcome criteria.)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: (Specify: decreased Hgb and decreased immune system functions; in aplastic anemia: immunosuppressive therapy, ATG, and steroids; in sickle cell anemia: splenic dysfunction.)

Defining Characteristics: (Specify: temperature elevation [greater than or equal to a temperature of 101° F or 38.5° C]; elevated WBC counts; positive cultures for bacterial organisms; positive throat, urine or blood culture; changes in respirations and sputum characteristics; cloudy, foul-smelling urine.)

Goal: Child will not experience infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains <99° F.

 \checkmark Child denies pain or swelling in any area.

NOC: Risk Control

INTERVENTIONS

Assess temperature, signs, symptoms, and laboratory tests indicating infectious process, irritability and malaise, swelling in soft tissue or lymph nodes.

Provide protective isolation if neutrophil count is less than 500/ cu mm; use mask and gown and good handwashing when caring for child. Obtain culture of body fluid for examination.

Teach parents and child to limit contact with persons who are ill or have respiratory infections.

RATIONALES

Provides information about infection in a child made susceptible by steroid and globulin therapy, particularly in aplastic anemia, or pneumococcal and salmonella infections in child with sickle cell anemia. Prevents transmission of pathogens to a susceptible child.

Identifies pathogens and sensitivity to antibiotic therapy if an infection is present. Prevents exposure to those with infections or illness that may be transmitted to child with anemia.

Instruct in handwashing technique and when to use it, including before meals, after using bathroom. Inform parents of recommended	Prevents exposure to infectious agents transmitted by hands or hard surfaces. Prevents infectious disease in the
childhood immunizations; and of acquiring the following vaccines when the child is 2 years of age or older: meningococcal and pneumococcal.	susceptible child.
Teach parents to report any temperature elevation, changes in respirations and pulse, pain or swelling in any area.	Indicates possible infection that may be controlled with early intervention.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Does child deny pain or swelling?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: abnormal blood profile [thrombocytopenia] reaction to transfusion or ATG administration.)

Defining Characteristics: (Specify: fever; restlessness; chills; shortness of breath; chest pain; tachycardia; hypotension; headache; thrombocytopenia at 20,000/cu mm level; bruising; petechiae; bleeding from mucous membranes; blood in urine, sputum, stool; nosebleed; blood in vomitus; stomatitis.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark No evidence of bleeding.

NOC: Risk Detection

INTERVENTIONS

Assess for signs of bleeding from any site as manifested in skin changes; also, blood from nose, oral cavity, urinary or gastrointestinal tract, and factors that precipitate or

RATIONALES

Provides information indicating blood loss as tendency increases with therapy for aplastic anemia. increase bleeding.

Assess blood in urine with dipsticks and hematests (specify when).

Protect child from trauma by padding bed and toys, using soft toothbrush and towels or swabs for cleaning mouth, avoiding rectal temperature and injections.

Discontinue transfusion if allergic reaction occurs, notify physician.

If ordered, perform skin test for ATG before dose, administer steroid daily 30 minutes before ATG, which is given in normal saline IV.

Teach parents and child about activities to avoid while on therapy, such as contact sports or activities that cause falls.

Advise parents to avoid aspirin and aspirin products.

Instruct parents to report any bleeding from any site, nosebleed that will not stop, blood in urine or stool.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is there any evidence of bleeding? What was looked for?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about anemia.

Defining Characteristics: (Specify: request for information about pathophysiology of anemia, changes that occur, preventive measures and treatments.)

Goal: Clients will obtain information about anemia by (date and time to evaluate).

Outcome Criteria

Identifies occult blood in urine
 or stool.
Prevents bleeding in skin
 layers, deeper tissues, or
 mucous membranes.

Prevents irreversible reaction to blood or blood products. Alerts to possible sensitivity to horse serum and protects from allergic reaction to ATG.

Prevents trauma, which causes bleeding when tendency is present.

Encourages bleeding by its effect on platelet aggregation. Provides for early interventions to control bleeding. $\sqrt{1}$ Parents verbalize understanding of (specify type of anemia) and treatment plan.

NOC: Knowledge: Disease Process

anemia, cause, treatment,

INTERVENTIONS Assess for knowledge level of type of

RATIONALES

prevention. Teach about RBC physiology and the changes that occur in the anemia the child has. treatments. Teach parents about genetic counseling for sickle cell anemia. Teach parents and child about bone marrow transplant treatment if appropriate. Instruct child to carry or wear identification information, including condition, treatments, and physician's name and telephone number. Teach parents and child about dietary intake of iron, including foods such as iron-rich formula for infant, meats, whole grains, green leafy vegetables, dried fruits. Administer oral iron replacement (specify dose) as ordered, and instruct to take with orange juice to promote absorption; give iron preparation between meals, avoid administering with milk, use straw or dropper, and have child rinse mouth after ingestion. Refer parents and child to National Association for Sickle Cell Disease and other community agencies and groups for family, parents or child. Reinforce to parents importance of child attending school and participating in family activities. Teach risks to avoid, including signs and symptoms of infection, bleeding, hypoxia, malnutrition, immunizations, high altitudes, side effects of steroid therapy,

emotional and physical stress.

Provides information needed for appropriate teaching content for parents and child. Promotes understanding of RBC function to provide a rationale for signs, symptoms, and Provides information about risk of offspring having the disease. Provides information of this therapy if child has aplastic anemia. Provides information in the event of an emergency. Provides iron intake or replacement in iron-deficiency anemia. Provides iron replacement therapy. Provides information and support for child and family with sickle cell or aplastic anemia. Treats child as member of family and integrates him or her into social, mental, and physical activities, that will enhance growth and development needs.

Prevents complications of

disease.

NIC: Teaching: Disease Process

Evaluation

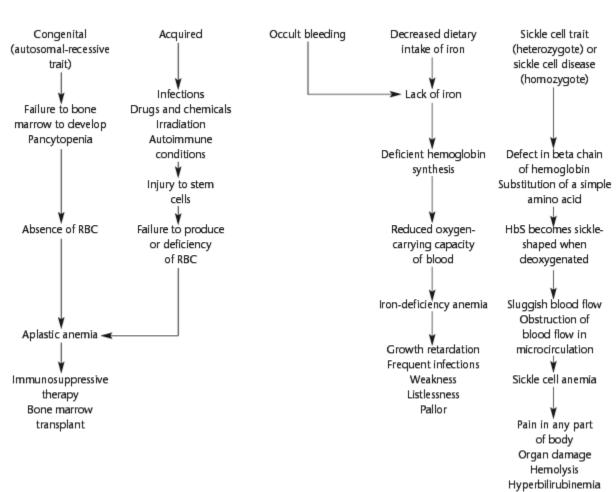
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did parents say about the cause of the child's anemia? What did parents verbalize about treatment for child?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR ANEMIA



ANEMIA

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CHAPTER 8.3 - HEMOPHILIA

INTRODUCTION

Hemophilia, an X-linked disorder, is a congenital hereditary bleeding disorder caused by an abnormal gene that produces a defective clotting factor protein with little or no clotting ability. The two most common forms of this disorder are: 1) factor VIII deficiency (hemophilia A, or classic hemophilia) and 2) factor IX deficiency (hemophilia B, or Christmas disease). Because both of these disorders are X-linked, the female is the carrier and the disorder is manifested only in males.

Hemophilia is classified into the following three groups, based on the severity of factor deficiency, mild (5-50%), moderate (1-5%) and severe (1%). Hemophiliacs are at risk for prolonged bleeding or hemorrhage as a result of minor trauma. Individuals with severe hemophilia, or less than 1% clotting factor, are also at risk to suffer from spontaneous bleeding without trauma or more severe prolonged bleeding after trauma. Bleeding can occur at any part of the body. Hemarthrosis, or bleeding into the joint spaces, is the most common complication of severe hemophilia. The knee joint is the most frequent joint involved.

MEDICAL CARE

DIAGNOSTIC EVALUATION

In the hemophilia patient, the following tests will be within the normal range: prothrombin time, fibrinogen level, thrombin level, and platelet count; the following tests will be abnormal: prolonged PTT and low levels of clotting factor (for factor VIII or IX).

Partial Thromboplastin Time Test (PTT): measures activity of thromboplastin.

Thromboplastin Generation Test (TGT): measures blood's ability to generate thromboplastin. Specific for determination of specific factor deficiencies, especially factor VIII and IX.

Prothrombin Test (PT): measures activity of prothrombin and detects deficiencies only for factor V, VII, X, fibrinogen, and prothrombin.

Platelet Test: total number of circulating platelets.

Bleeding Time: measures time interval for bleeding from small superficial wound to cease.

Factor VIII: antihemophilic factor A or antihemophilic globulin (AHG).

Factor IX: antihemophilic factor B or plasma thromboplastin component (PTC).

THERAPEUTIC MANAGEMENT

Replacement of the Deficient Clotting Factor: Factor VIII and Factor IX (IV): (monoclonal), (reconstituted with sterile water immediately before use); DDAVP: (1-deamino-8-D-arginine vasopressin), a synthetic form of vasopressin that is the treatment of choice for hemophilia.

Corticosteroids: are used to treat inflammation in the joints; Ibuprofen is used for pain management.

Oral Use of EACA or Amicar (Epsilon aminocaproic acid): promotes clotting, it is used in children (>1 year of age) for mucous membrane bleeding; also for preprocedural and postprocedural oral surgery (a dose of factor replacement must be given first).

Porcine Preparations: prevents inhibitor antibodies (30% will develop inhibitor antibodies against factor replacements).

Regular Program of Exercise: active range-of-motion is recommended to strengthen muscles around joints and may decrease the number of spontaneous bleeding episodes.

TREATMENTS NOT CURRENTLY RECOMMENDED

Cryoprecipitate: has not been recommended (since 1988) because it cannot be treated to safely eliminate hepatitis or HIV viruses.

NSAIDS: (such as aspirin, Indocin, or Butazolidin) are not recommended because they inhibit platelet function.

COMMON NURSING DIAGNOSES

See IMPAIRED PHYSICAL MOBILITY

Related to: Pain and discomfort with the onset of bleeding episodes; and hemarthrosis.

Defining Characteristics: (Specify: pain in affected joint, and decreased ability to move the joint; immobilized joints [first 24 to 48 hours after a bleeding episode], potential contractures in affected joints.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Spontaneous bleeding episodes or bleeding episodes related to trauma.

Defining Characteristics: (Specify: bleeding into soft tissue, muscles, and most frequently, joint capsules.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Hemarthrosis.

Defining Characteristics: (Specify: a feeling of stiffness, tingling or aching in the affected joint, followed by a decrease in the ability to move a joint, verbal descriptors of pain, irritability, crying, restlessness.)

Goal: Client will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Pain rating is decreased to (specify level and pain scale used).

NOC: Pain Level

INTERVENTIONS

Assess for joint pain, swelling and limited ROM.

Immobilize joints and apply elastic bandages to the affected joint if prescribed; elevate affected extremity/joint; avoid heat application. that may prolong bleeding time; ice packs promote vasoconstriction to active bleeding sites, but must be used cautiously to prevent skin damage in young children.

Administer analgesics for pain (specify as ordered).

Provide bed cradle over painful joints and/or other sites of bleeding.

Maintain immobilization of the affected extremity during the acute phase (24 to 48 hours); apply a splint or sling to the affected extremity if prescribed.

Inform child of cause of pain and interventions to relieve it; how medications must be administered via mouth, while injections are avoided; to avoid taking aspirin or aspirin product for pain.

Instruct child to support and protect painful areas and in the importance of immobilization.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

Bleeding episodes should be treated at the onset of discomfort, which requires replacement of the deficient factor. Immobilization is mandatory for comfort and to avoid further bleeding; elastic bandage most often prevents muscle bleeding; elevation of affected extremity/ joint will minimize swelling; heat application will promote vasodilatation and

Administer ibuprofen for pain management; avoid NSAIDS (aspirin), as they may inhibit platelet function. Prevents pressure of linens on affected sites, especially joints (i.e., hemarthrosis). Prevents increase of pain and potential increased bleeding time caused by movement.

Promotes understanding of pain responses and methods to reduce it.

Promotes comfort and prevents further bleeding into joints.

RISK FOR INJURY

Related to: Decreased clotting factor (VIII or IX).

Defining Characteristics: (Specify: prolonged bleeding anywhere from or in the body; spontaneous bleeding episodes; mild to severe bleeding episodes after trauma; hemarthrosis [bleeding to the joint and swelling of the joint]; affected bleeding site will display warmth, redness, swelling, and pain with limited movement.)

Goal: Client will not experience injury by (date and time to evaluate).

Outcome Criteria

- \checkmark No evidence of bleeding.
- \checkmark Joints are not swollen, warm, or red.

NOC: Risk Control

INTERVENTIONS

- Assess signs and symptoms of bleeding; hemarthrosis (stiffness, tingling, or pain); subcutaneous and intramuscular hemorrhage; oral bleeding; epistaxis (is not a frequent sign); petechiae (are uncommon).
- Provide appropriate oral hygiene (use of a water irrigating device; use of a soft toothbrush or softening the toothbrush with warm water before brushing; use of sponge-tipped toothbrush).
- Advise adolescents to use an electric shaver versus manual razor devices (with blades).

Substitute the subcutaneous route for intramuscular injections; utilize venipuncture blood drawing technique for all required blood testing samples versus use of a finger or heel puncture.

Utilize appropriate toys (soft, not pointed or small sharp objects); for infants, may need to use padded bed rail sides on crib; avoid rectal temperatures.

RATIONALES

- Early detection of bleeding episodes will delay initiation of factor replacement therapy and will minimize complications; oral bleeding is often caused by trauma to the gums; petechiae is caused by low platelet function versus a deficient clotting factor. Implementation of appropriate oral
- hygiene will minimize trauma to the gums.
- High risk of bleeding is related to use of razor blades; minimal risk of bleeding is associated with use of electric shaver.
- Both of these measures are associated with less bleeding after implementing a subcutaneous injection or venipuncture blood sample.
- All of these recommendations will minimize and/or prevent bleeding episodes due to trauma.

- Implement the following measures to control and stop all bleeding episodes: 1) apply pressure (10 to 15 mins); 2) immobilize and elevate affected extremity above the heart; 3) application of cold pack (if prescribed); 4) institute factor replacement therapy (based on medical protocol); 5) institute DDAVP (it can be given IV or intranasally).
- Other recommended adjunct measures: 1) complete bed rest for intramuscular hemorrhage of lower spine area and non-weight bearing support; 2) assess laboratory values for blood clotting factors (VIII or IX) and vital signs; 3) stop passive range-of-motion exercises after an acute episode of bleeding.
- Teach to wear appropriate medical identification and to notify medical personnel of diagnosis.
- Teach parents, family members and affected child: signs and symptoms of bleeding; and appropriate measures to control bleeding at home.
- Limit use of helmets and padding of joints during participation in contact sports activities. discomfort.
- Recommend non-contact sports activities such as swimming, hiking, or bicycling.
- Avoid contact sports such as football, soccer, ice hockey, karate.
- Maintain close supervision during play time to minimize injuries.

Teach parents related to home health maintenance: 1) the affected child should receive all routine immunizations (use subcutaneous route, recommend pressure and elastic bandage after injections); 2) reinforce importance of appropriate dental hygiene program; 3) reinforce the provision of a safe but normal home environment, such as safety measures that are employed for all children of different ages are recommended; To allow clot formation. To decrease blood flow to control bleeding. To promote vasoconstriction, but use caution with small children to avoid tissue damage. To control and stop bleeding episode and to prevent crippling effects from joint bleeding.

- To minimize hemorrhage in muscles of lower spine (i.e., attaching to trochanter or femur). These values determine current hemodynamic status and factor replacement therapy guidelines or protocols. To avoid injury to the affected extremity or joint and to avoid recurrence of bleeding to these.
- To prepare medical personnel, family members and others of accurate information in the event of an emergency.
- Empowers others with accurate information to recognize and control bleeding episodes; to prevent bleeding; and to prevent crippling effects of bleeding.
- Daily use of these measures may cause the child to feel ostracized or may create emotional
- These activities are considered a safe activity by the Hemophilia Foundation.
- Contact sports will predispose the child to injury and bleeding episodes.
- To prevent bleeding related to trauma in the child's environment (i.e., school or park).
- To protect the child from childhood communicable diseases (but use subcutaneous route administration to prevent prolonged bleeding). To minimize oral trauma. To minimize emotional distress during the child's progression through the different developmental stages. To minimize risk of trauma in the home by falls; infants and toddlers frequently fall or sustain injuries.

example: for the toddler, gates over stairs but avoid restraining the toddler's attempt to master motor skills; for the older child, participating in sports activities (use helmets and padding); 4) provide a home environment free of hazards, including clear pathways, and supervise child during ambulation and play without being overprotective.	
Instruct parents and child, if age appropriate, to administer factor VIII via IV if signs and symptoms appear, or before dental visits or other possible invasive procedures; instruct in mixing the precipitate, drawing into syringe, venipuncture, and application of pressure following IV, and allow for return demonstration.	Prevents or manages bleeding by factor replacement.
Teach parents to include iron-rich foods in diet; provide list of foods and sample menus.	Maintains iron level to prevent anemia.
Teach parents and child of possible reactions to IV concentrate administration and that blood is tested for AIDS.	Reduces anxiety caused by risk of infections such as hepatitis and AIDS from replacement products.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is there any evidence of bleeding? Are joints red, swollen, or warm?)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: (Specify: inadequate or incorrect information or understanding, prolonged disease or disability progression that exhausts the physical and emotional supportive capacity of caretakers.)

Defining Characteristics: (Specify: expression and/or confirmation of concern and inadequate knowledge about long-term care needs, problems and complications, anxiety and guilt, overprotection of child.)

Goal: Family will cope effectively with child's illness by (date and time to evaluate).

Outcome Criteria

 \checkmark Family identifies 3 effective coping mechanisms related to chronic illness of child.

 \checkmark Family members establish short term and long-term goals for family.

NOC: Family Coping

INTERVENTIONS

```
Assess family's coping methods and
their effectiveness; family
interactions and expectations
related to long-term care,
developmental level of family;
response of siblings; knowledge and
use of support systems and
resources; presence of guilt and
anxiety; overprotection and/or
overindulgent behaviors.
```

```
Encourage family members to express
problem areas and explore solutions
responsibly.
```

```
Help family establish short- and long-
term goals for child and integrate
child into family activities,
include participation of all family
members in care routines.
```

Provide assistance of social worker, counselor, or other as needed.

Suggest community agencies and contact with the National Hemophilia Foundation or other families with a child with hemophilia.

Encourage family members to express feelings, such as how they deal with the chronic needs of family member and coping patterns that help or hinder adjustment to the problems. Provide information regarding longterm care and treatments.

Teach family that overprotective behavior may hinder growth and development and that child should be treated as normally as possible.

RATIONALES

```
Identifies coping methods that work
  and the need to develop new coping
  skills and behaviors, family
  attitudes; child with special long-
  term needs may strengthen or strain
  family relationships and an undue
  degree of overprotection may be
  detrimental to child's growth and
  development (disallowing school
  attendance or peer activities,
  avoiding discipline of child, and
  disallowing child to assume
  responsibility for ADL.
Reduces anxiety and enhances
  understanding; provides family an
  opportunity to identify problems and
  develop problem solving strategies.
Promotes involvement and control over
  situations and maintains role of
  family members and parents.
```

```
Gives support to the family faced with
long-term care of child with a
serious illness.
Provides information and support to
child and family.
```

- Allows for venting of feelings, which relieves guilt and anxiety and helps determine need for information and support.
- Enhances family understanding of medical regimen and responsibilities of family members.
- Promotes understanding of importance of making child one of the family and the adverse effects of overprotection of the child.

NIC: Family Involvement

Evaluation

(Date/time of evaluation of goal)

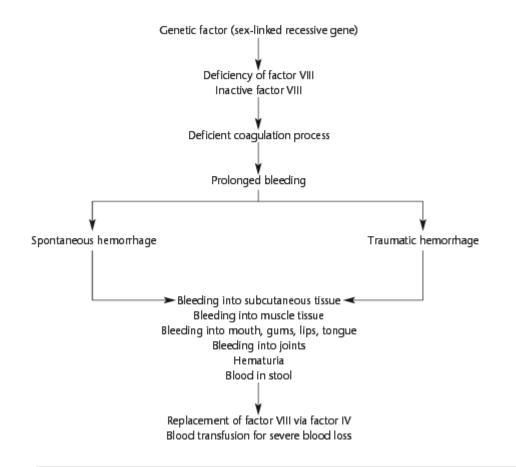
(Has goal been met? Not met? Partially met?)

(What 3 coping mechanisms did the family identify? What are the short- and long-term goals established by the family? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HEMOPHILIA

HEMOPHILIA A



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CHAPTER 8.4 - ITP

INTRODUCTION

Idiopathic thrombocytopenic purpura (ITP) is an acquired hemorrhagic blood disorder. It is characterized by excessive destruction of platelets (thrombocytopenia) and purpura (a discoloration caused by petechiae beneath the skin). Etiology is unknown but it is believed to be an autoimmune response to disease-related antigens. ITP is classified into two forms: 1) acute form, which arises usually after an upper respiratory infection, measles, mumps, or chickenpox; and 2) chronic form, which is unresponsive to treatment (with persistent thrombocytopenia) beyond 6 months of diagnosis. Classic signs and symptoms of ITP may include: easy bruising with petechiae, and/or ecchymosis over bony prominences; bleeding from mucous membranes (i.e., epistaxis, bleeding gums); hematuria; hematemesis; hemarthrosis; hematomas over the lower extremities. ITP is seen most frequently between the ages of 2 and 10 years in children. It is rarely seen in infants less than 6 months of age. Treatment is primarily supportive as the course of this disease is self-limiting.

MEDICAL CARE

Diagnostic Evaluation of ITP: Platelet count (below 20,000 mm³ to 30,000 mm³); bone marrow aspiration (to rule out malignant infiltration of the marrow); abnormal platelet function (prolonged bleeding time, tourniquet test, and clot retraction); higher than normal levels of megakaryocytes; all other blood studies are typically normal. Also, lab studies are performed to rule out systemic lupus erythematosus, lymphoma, and leukemia.

Gamma Globulin (IVIG) (IV): can be expensive.

Corticosteroids: sometimes helpful in increasing the platelet count.

Anti-D Antibody Therapy: may increase platelet count after 48 hours.

Blood Transfusions: packed red blood cells are given to replace blood lost in symptomatic children with ITP. Platelet transfusions are seldom administered.

Splenectomy: reserved for symptomatic children with the chronic form of ITP or used as an emergency treatment when life-threatening hemorrhage occurs. Usually only performed in children older than 5 years.

Pain Control: acetaminophen products are substituted for salicylates.

COMMON NURSING DIAGNOSES

See RISK FOR INJURY

Related to: Autoimmune destruction of platelets.

Defining Characteristics: (Specify: petechiae, ecchymoses, hematomas, damage from trauma.)

See HYPERTHERMIA

Related to: Infection.

Defining Characteristics: (Specify: elevated temperature (above 38.5° C); elevated WBC counts indicating infection; and/or the presence of a positive culture for a bacterial organism.)

ADDITIONAL NURSING DIAGNOSES

ALTERED PROTECTION

Related to: Abnormal blood profile (thrombocytopenia).

Defining Characteristics: (Specify: platelet count below 20,000 cu mm/dL, petechiae, ecchymoses, bleeding from any mucous membrane area, hematomas on legs.)

Goal: Child will be protected from effects of thrombocytopenia by (date and time to evaluate).

Outcome Criteria

 \checkmark No bleeding from any source.

NOC: Abuse Protection

INTERVENTIONS

RATIONALES

Assess for bleeding from gums, hematemesis, hematuria, hemathrosis, hematomas, epistaxis, or evidence of easy bruising, petechial rash.	Provides information and data indicating low platelet level and increased tendency for bleeding.
Avoid trauma to tissues by avoiding use of hard toothbrush or dental floss, taking rectal temperatures, performing unnecessary invasive procedures, and if administering an IM injection, applying pressure for 5 minutes to site.	Prevents bleeding caused by trauma to sensitive areas.
Administer medications (specify) as ordered.	Administered to children who are at highest risk for excessive bleeding.
Administer packed RBCs as ordered and monitor for responses, expected and adverse reactions.	Administered to replace blood loss or increase platelets.
Provide support in a warm, accepting environment for parents and child.	Promotes trust and comfort during periods of stress.
Teach parents and child about cause of disorder, reason for treatment and signs and symptoms indicating	Provides information about the disease needed to understand treatments and care.

presence or relapse of disease.

information and data ating low platelet level creased tendency for ng.

Inform parents and child to avoid rough contact play; blowing nose hard; straining at defecation; toys with sharp edges; using hard toothbrush; eating hard, rough foods. Teach parents and child about medications and to avoid aspirin

medications and to avoid aspirin and aspirin over-the-counter products.

Teach child to avoid those with upper respiratory infections or any illness.

Teach about and allow return demonstration of urine and stool testing for blood using dipstick and hematest; inform to report other signs of bleeding including fatigue, pallor, headache, and blood in sputum or vomitus. Promotes compliance in drug therapy to prevent relapses in bleeding; aspirin prevents platelet aggregation. Prevents risk for infection in susceptible child.

Prevents trauma that causes

bleeding.

Identifies presence of bleeding in gastrointestinal or urinary tract or any other area.

NIC: Surveillance

Evaluation

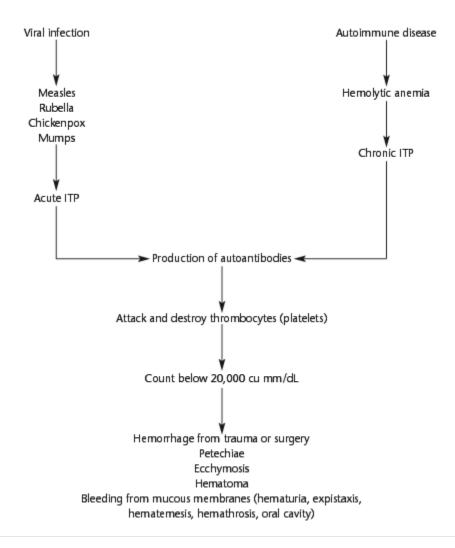
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is there any evidence of bleeding? What types of bleeding were ruled out?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR ITP



ITP (Idiopathic Thrombocytopenic Purpura)

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CHAPTER 8.5 - LEUKEMIA AND LYMPHOMA

INTRODUCTION

Leukemia is a malignant hemopoietic disease which is characterized by an unrestricted proliferation of poorly differentiated lymphocytes called blast cells that replace normal blood marrow elements. It occurs more frequently in male children after age 1 year. The peak age of onset is between 2 and 6 years. In children, the two most common forms of leukemia are: acute lymphoid leukemia (ALL) and acute myelogenous leukemia (AML).

Pathologic effects of leukemia include the replacement of normal bone marrow elements by leukemic cells which results in clinical manifestations of anemia, neutropenia, and thrombocytopenia. Symptoms related to anemia may result in fatigue, weakness, pallor, and lethargy. Neutropenia predisposes the child to febrile episodes and infection. Symptoms related to thrombocytopenia may result in cutaneous bruises or purpura, petechiae, epistaxis, melena, and gingival bleeding. Other common symptoms related to leukemic infiltration include: hepatosplenomegaly and lymphadenopathy; bone and joint pain; anorexia; abdominal pain; weight loss. Other symptoms, that are very rare, may include: hematuria, gastrointestinal bleeding, or central nervous system (CNS) bleeding. Prognosis is based on age and initial WBC at diagnosis, sex, histologic type of the disease, number of chromosomes, the DNA-index, morphology and cell-surface immunologic markers.

Lymphoma encompasses a group of neoplastic diseases that arise from the lymphoid and hemopoietic systems. There are two types: Hodgkin's disease and non-Hodgkin's lymphoma (NHL). NHL occurs more frequently and is the third most common childhood malignancy. In both types, it is observed in children under 15 years of age, and boys are affected more than girls. The peak incidence of NHL is between the ages of 7 and 11 years. Characteristics of Hodgkin's disease include: differentiated cells; pattern of infiltration is specific; subacute and a prolonged onset; and localized disease is present at the time of diagnosis. Characteristics of NHL include: undifferentiated cells; pattern of infiltration is diffuse; rapid onset; and widespread involvement at the time of diagnosis.

Clinical manifestations of Hodgkin's disease exhibit: 60% to 90% of cases presenting with cervical or supraclavicular adenopathy; the enlarged lymph node will be painless, firm, and movable; 50% of cases will also have mediastinal involvement with symptoms of airway obstruction; anorexia; weight loss; malaise; lethargy, and fever. Clinical manifestations of NHL depend on site of involvement: 1/3 of cases, intra-abdominal site, with mediastinal, peripheral nodal, right quadrant pain, with or without fever, 1/4 of cases, mediastinal site, with respiratory symptoms.

MEDICAL CARE

FOR LEUKEMIA

Treatment of leukemia involves multimodal therapy, including the use of chemotherapeutic agents with or without cranial irradiation in 3 phases. 1) Remission Induction Therapy includes corticosteroids (usually prednisone), vincristine (Oncovin), L-asparaginase, with or without doxorubicin; 2) CNS Prophylactic Therapy includes intrathecal methotrexate; 3) Maintenance Therapy (or Consolidation) includes weekly methotrexate and daily 6-mercaptopurine.

Supportive Therapies: for the treatment of side effects induced by the chemotherapy agents.

Prophylactic Antibiotic Therapy: to reduce the incidence of infections. Infection is a frequent threat resulting from immunosuppression effects of chemotherapy agents.

Granulocyte Colony-Stimulating Factors (GCSF): filgrastim (Neupogen) IV or subcutaneously 24 hours after chemotherapy is discontinued and is given for 10 to 14 days. GCSF directs granulocyte development, which decreases the duration of the neutropenia.

Replacement of Blood Elements: for the treatment of anemia, agranulocytopenia, and thrombocytopenia.

Prevention and Treatment of Oral Ulcers (Stomatitis): Peridex is the most commonly used mouth rinse to prevent or treat Candida and bacterial infections. Other mouth rinses that can be used include normal saline or baking soda solutions. Antifungal and antibacterial mouthwashes (nystatin) are used after mouth rinses 30 minutes after using Peridex. Use a soft sponge toothbrush (Toothette).

Severe Oral Infections: Acyclovir may be used to treat severe oral lesions.

Treatment of Oral Ulcer Pain: utilization of analgesics such as Chloraseptic lozenges, Orabase, or opiates.

Prevention and Management of Nausea and Vomiting: administration of antiemetic before the chemotherapy begins (30 minutes to 1 hour) and every 2, 4, or 6 hours for at least 24 hours after chemotherapy.

Diagnostic Evaluation of Leukemia (includes the following):

Complete Blood Count: decreased white blood cells, red blood cells, and platelets.

Physical Examination: liver, spleen, lymph nodes and the mediastinal area; weight loss; bone or joint pain; petechiae; abdominal pain.

Bone Marrow Aspiration: reveals hypercellularity with 60% to 100% blast cells.

Lumbar Puncture: evaluates the presence of central nervous system (CNS) leukemia.

Number of Chromosomes: number of chromosomes (ploidy or the DNA index) in the lymphoblasts. Better prognosis: DNA index of more than 1.16 and more than 46 chromosomes.

Cytogenic Abnormalities: presence of translocation of portions of one chromosome (e.g., the Philadelphia chromosome). Presence of the Philadelphia chromosome is least favorable.

Enzymes: lactic dehydrogenase (LDH), serum glutamic oxaloacetic transaminase (SGOT) and serum glutamic pyruvic transaminase (SGPT).

Monoclonal Antibodies: used to detect the presence of the common ALL antigen (CALLA) on leukemic cells. A positive CALLA is associated with a good prognosis.

Cell-Surface Immunologic Markers: B-cell (early pre B-cell, pre B-cell or B-cell) or T-cell.

Urine Tests: blood urea nitrogen (BUN), creatinine, and uric acid may be elevated.

Computerized Tomography Scans (CT): may reveal infiltrated sites with leukemic cells, such as the kidneys, testes, prostrate, ovaries, gastrointestinal tract, and lungs.

FOR LYMPHOMA

Medical Care for Hodgkin's Disease and NHL:

Diagnostic Evaluation for Hodgkin's Disease:

Laboratory Studies: CBC, erythrocyte sedimentation rate (ESR), serum copper and iron levels, serum ferritin and transferrin, renal and liver function tests, baseline thyroid function tests, T and B lymphocyte levels, PPD skin test.

Evaluation Includes: chest X-ray; CT scan of the mediastinal, pulmonary and upper abdominal area; ultrasound of neck and abdomen; isotope scanning; MRI; lymphangiogram (LAG); lymph node biopsy.

Diagnostic Evaluation for Non-Hodgkin's Disease:

Laboratory Studies: CBC with differential, liver and renal function studies, electrolyte, calcium, phosphorus, magnesium, lactate dehydrogenase (LDH), uric acid, EBV titers and urinalysis.

Evaluation Includes: bone marrow aspiration, lumbar puncture, lymph node biopsy, radiographic studies, CT scans of the lungs and gastrointestinal tract.

Supportive Therapies for Both Types: are similar to the care discussed in the leukemia child.

Treatment for Hodgkin's Disease: radiation and chemotherapy.

Chemotherapy Agents for Hodgkin's Disease: (2 regimens) **1) MOPP:** mechlorethamine, vincristine, prednisone, and procarbazine; **2) ABVD:** (for advanced disease) adriamycin, bleomycin, vinblastine, and dacarbazine.

Treatment for Non-Hodgkin's Disease: chemotherapy and radiation therapy.

Chemotherapy Agents for NHL: similar to leukemia.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: loss of appetite; and/or pain in mouth; induced malabsorption or enteropathy [caused by abdominal radiation, chemotherapy, abdominal surgery, or frequent antibiotic use]; and anorexia-inducing substances [secreted by tumor cells]; xerostomia (irreversible dryness of mouth], destruction of microvilli of taste buds and/or lining of salivary glands [all can be caused by radiation therapy].)

Defining Characteristics: (Specify: anorexia, nausea, vomiting, stomatitis, mucositis, decreased salivation, cachexia, fatigue, diarrhea, alterations in taste, gustatory changes, weight loss, abdominal pain, psychologic and sociocultural factors.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: vomiting and diarrhea; blood losses (i.e., hemorrhagic cystitis, epistaxis, hemoptysis.)

See DIARRHEA

Related to: (Specify: surgery, radiation, chemotherapy, increased emotional stress, use of nutritional supplements, lactose intolerance, fecal impaction, tumor growth, infection or antibiotics.)

Defining Characteristics: (Specify: abnormal increase in quantity, frequency, and fluid content of stool.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: delayed wound healing, immobility, external exposure to radiation, administration of chemotherapy and antibiotics.)

Defining Characteristics: (Specify: radiation effects: erythema, dryness, itching, increased pigmentation, dry desquamation, necrotic tissue; chemotherapy and antibiotic induced side effects: local phlebitis, stomatitis, mucositis, maculopapular rash, hyperpigmentation, nail changes, pruritus, dermatitis, alopecia, photosensitivity, acne, erythema, poor wound healing.)

See RISK FOR INFECTION

Related to: (Specify: disease process; immunosuppression caused by required chemotherapy; prolonged antibiotic and prednisone therapy; skin breakdown, serious bacterial, viral fungal, and protozoan infections; surgery and/or splenectomy; invasive procedures; GI obstruction; malnutrition, inadequate serum protein level.)

Defining Characteristics: (Specify: increase in body temperature above normal range [>38.3° C or 101° F], neutropenia; inadequate number of neutrophils: severe risk of infection [<500/mm³] or moderate risk of infection [<1000 mm³]; presence of pathogens may or may not be identified from blood cultures.)

ADDITIONAL NURSING DIAGNOSES

FEAR

Related to: Diagnostic tests, procedures, treatments, diagnosis and prognosis.

Defining Characteristics: (Specify: child: crying, screaming, combative behaviors, anger, withdrawn behaviors, and verbalized fears; parents: fear, guilt, depression, anxiety.)

Goal: Child will experience decreased fear by (date and time to evaluate).

Outcome Criteria

 \checkmark Child is calm.

 \checkmark Child reports feeling less afraid.

NOC: Fear Control

INTERVENTIONS RATIONALES Assess child and parents' level of Provides information about fears.

anxiety and fear. Explain to the child what will take place and what the child will feel, see, and hear during various procedures.	To increase the child's sense of control before and during procedures.
Encourage child and parents to be involved with procedure (specify).	To promote the child's and parents' sense of control.
Remain nonjudgmental regarding the child's behaviors and fears.	Encourages supportive relationship child's behavior.
Teach parents and child about the disease process and treatments, including radiation chemotherapy and its benefits and side effects (nausea, vomiting, diarrhea, stomatitis, alopecia are possibilities but are temporary).	Provides information that will relieve fear and anxiety; understanding of treatments and effect on body image.
Explain all procedures, treatments, and care in simple, direct, honest terms and repeat as often as necessary; reinforce physician information if necessary and provide specific information as needed.	Supplies information about diagnostic procedures and tests, such as CBC, platelets with chemotherapy; and scans and X-rays for diagnosis.
Introduce child to another who has same disease.	Provides information and support from a peer with the same condition and who has empathy.

NIC: Anxiety Reduction

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Describe child's behavior. Did child report feeling less fearful? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

PAIN

Related to: (Specify: disease-related, treatment-related and procedure-related.)

Defining Characteristics: (Specify: multidimensional aspects of the cancer pain experience in children with cancer include components of assessment of cognitive of self-report, physiologic responses, behavioral manifestations, and the child's developmental level.)

Goal: Child will experience less pain by (date and time to evaluate).

Outcome Criteria

 $\sqrt{\text{Ranks pain as less than (specify level and pain scale being used)}}$.

NOC: Pain Level

INTERVENTIONS

Assess the following three areas: 1) self-report responses of the child's pain (use words and pain assessment tools that help the child to describe pain (specify); 2) behavioral manifestations (i.e., crying, facial expressions, muscle tension, screaming, pain verbalization, physical resistance, favors affected body parts, more common to observe during procedurerelated pain or acute episodes); and 3) physiologic responses (evaluation of sweating palms, increased heart and respiratory rates, increased blood pressure, use along with selfreport and behavioral assessments). Assess need for pain management.

Administer analgesics as prescribed (specify), on a preventive pain schedule, and monitor side effects of analgesics.

Apply EMLA cream to sites to be used for intrusive painful procedures (i.e., venipuncture, bone marrow aspiration, lumbar puncture, implanted port access, subcutaneous and intramuscular injections); it must be applied 1 hour before the procedure to be effective.

Evaluate effectiveness of pain relief from all pain medication used. Promote rest and avoid disturbing child unnecessarily.

- Maintain body alignment and support, and immobilize limbs with pillows and sand bags.
- Apply heat (moist or dry) to painful areas.

Provide toys and activities for quiet play appropriate for age; use music, relaxation techniques; remain with child when pain is most acute.

RATIONALES

Provides information about pain that varies with age, developmental level of child and is unique to a particular child's learned emotional responses; degree of pain and fatigue influence ability of child to perceive and identify discomfort.

Ensures consistency of pain management strategies.

Ensures effective pain management; promotes comfort and rest; fosters a trusting and caring relationship between the child, family, and health care team.

Minimizes pain related to intrusive procedures; ensures child's safety during scheduled intrusive procedures.

Ensures effective pain control and management. Decreases stimuli that increase pain, and promotes rest to conserve energy. Promotes comfort and prevents contractures.

Relieves pain by promoting circulation to the area. Provides diversion and distraction from pain.

Inform child of cause of pain and interventions to relieve it, of how medications are administered and actions to expect; to report pain before it becomes severe.	Promotes understanding of pain response and methods to reduce it.
Educate child and parents on various	Enhances trust between the nurse,
distraction techniques (i.e.,	child and the family; also, may
counting, music, imagery, deep	minimize the child's pain
breathing, self-talk, positioning,	perceptions and foster a sense of
reassurance, prayer, massage,	control during intrusive
therapeutic touch, relaxation).	procedures.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used.)

(Revisions to care plan? D/C care plan? Continue care plan?)

IMPAIRED ORAL MUCOUS MEMBRANES

Related to: (Specify: administration of chemotherapy agents, side effect of radiotherapy, long-term administration of antibiotics.)

Defining Characteristics: (Specify: oral ulcers [stomatitis] are red, eroded, painful areas in the mouth and pharynx; and similar lesions [as stomatitis] that may extend along the esophagus and in the rectal area.)

Goal: Child will experience healing mucous membranes by (date and time to evaluate).

Outcome Criteria

 \checkmark Mucous membranes are intact without lesions.

NOC: Tissue Integrity: Skin and Mucous Membrane

INTERVENTIONS

RATIONALES

Assess mouth daily for oral ulcers,	To effectively treat oral ulcers
pain, ability to ingest foods;	and to promote healing; to
provide meticulous oral hygiene, to	prevent bacterial and Candida
prevent oral breakdown and to	infections; to prevent trauma
promote healing (start as soon as a	to oral mucosa.
drug is used that causes oral	
ulcers): use a soft sponge	
toothbrush or toothette, administer	

frequent mouth rinses, at least every 4 hours and after meals; mouth rinses commonly used include Peridex, normal saline with or without sodium bicarbonate solution. Administer nystatin mouthwashes as To maintain oral integrity; to ordered after mouth rinses; treat bacterial and fungal restrict oral intake for 30 minutes infections. after taking this mouthwash. Administer Acyclovir (topically or To prevent or treat herpetic IV) for oral herpes lesions as infections. ordered. Apply local anesthetics to ulcerated To relieve pain associated with areas before meals and as needed to oral ulcers. relieve pain; topical agents include: Ora-base; can be applied directly to oral lesions as ordered or swished and spit. Apply lip balm (daily). To prevent cracking and fissuring of lips; to maintain lip integrity. To minimize oral discomfort and Encourage a bland, soft diet and selection of foods by child. irritation; enhances sense of control, independence, decreases sense of helplessness; may increase child's level of nutrition. To prevent irritation of mouth Avoid using lemon glycerin swabs. ulcers decay of teeth. Avoid juices containing ascorbic To prevent discomfort to oral acid, hot, cold, or spicy foods. ulcers. Avoid use of hydrogen peroxide as a It will delay healing of oral mouth rinse. ulcers by breaking down protein. Avoid use of milk of magnesia. To prevent drying of oral mucosa. Provide education to parents and Promotes understanding of oral child: 1) chemotherapy and stomatitis, significance of radiation may cause oral ulcers; 2) daily oral hygiene, and pain control for oral ulcers. effective oral hygiene strategies to prevent and treat oral ulcers; 3) child may require hospitalization (for hydration, parental nutrition, pain control of oral ulcers) if stomatitis interferes with food or fluid intake.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Is there any evidence of mucous membrane impairment or new lesions?)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INJURY

Related to: (Specify: disease process; immunosuppression, thrombocytopenia and other side effects from chemotherapy and radiation treatments.)

Defining Characteristics: (Specify: fever [>38.3° C or 101° F], secondary infections; fatigue; anemia [hemoglobin level <11 g]; neutropenia [absolute neutrophil count <1000/mm³]; risk of hemorrhage or bleeding tendencies [platelet count of 20,000/mm³]; side effects of chemotherapy.)

Goal: Child will not experience injury by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains <101° F.

 \checkmark No evidence of bleeding.

NOC: Risk Detection

INTERVENTIONS

RATIONALES

- Assess for bleeding from any site, WBC, platelet count, Hct, absolute neutrophil count, and febrile episodes.
- Avoid trauma by not using hard toothbrush or dental floss, not taking rectal temperatures, not performing unnecessary invasive procedures.

Carry out handwashing technique before giving care, use mask and gown when appropriate, provide a private room, monitor for any signs and symptoms of infection, especially pulmonary.

Teach parents and child to avoid rough play or sports, straining at defecation, blowing nose hard. Teach parents and child to avoid

- Provides information about frank bleeding or blood profile abnormalities that predispose to bleeding caused by bone marrow suppression and immunosuppression resulting from chemotherapy or radiation therapy.Prevents bleeding during chemotherapy regimen, which alters platelet and clotting
 - factors.

Prevents transmission of pathogens to a compromised immune system during chemotherapy if neutrophil count is less than 1000/cu mm.

Prevents trauma that causes bleeding.

Prevents risk for infection in the

those with upper respiratory infection or any illness.	highly susceptible child.
Teach parents to report any fever, behavior changes, headache, dizziness, fatigue, pallor, slow oozing of blood from any area, exposure to a communicable disease.	Indicate complications associated with an abnormal blood profile.
Show and allow for return demonstration of urine and stool testing for blood using dipstick and hematest.	Identifies presence of bleeding in gastrointestinal or urinary tract.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Is there any evidence of bleeding?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED BODY IMAGE

Related to: Side effects of chemotherapy and radiation therapy.

Defining Characteristics: (Specify: loss of hair; moon face; weight loss or gain; hyperpigmentation; skin rash or erythema; acne; skin thickening; or peeling of skin.)

Goal: Child will experience improved body image by (date and time to evaluate).

Outcome Criteria

 \checkmark Child expresses feelings about how he or she looks.

 \checkmark Child identifies at least 1 positive thing about own body.

NOC: Body Image

INTERVENTIONS

RATIONALES

Assess child for feelings about multiple restrictions in lifestyle, chronic illness, difficulty in school and social situations, inability to keep up with peers and participate in

Provides information about status of self-concept and body image, that may require special attention. activities.

Encourage expression of feelings and concerns and support communication with parents, teachers and peers.

Avoid negative comment and stress positive activities and accomplishments.

Note withdrawal behavior and signs of depression.

Show support and acceptance of changes in appearance of child; provide privacy as needed. Encourage parents to maintain support for child.

Teach parents and child about the risk for hair loss; correct misinformation and suggest ways to cope with body changes. Encourage parents to be flexible in care of child; to integrate care and routines into family activities, and allow child to participate in peer activities.

Assist parents and child to deal with peers and perceptions of appearance and how to tell others about change in appearance.

Suggest a cap, scarf, or other head covering.

Suggest psychological counseling or child-life worker, and inform of functions performed by these professionals.

NIC: Self-Esteem Enhancement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What feelings about disability did child verbalize? What positive thing about their body did child identify? Use quotes.)

Reveals responses to body image changes and possible poor adjustment to chances. Promotes trust and demonstrates respect for child.

Encourages acceptance of the child with special needs (must deal with long-term steroid therapy and its side effects, lifelong activity restrictions).

Provides correct information to assist in dealing with negative feelings about body.

Promotes child's sense of wellbeing and of belonging and having control of life events by allowing participation in normal activities for age and enhancing developmental task achievement. Prevents stigmatization of child by

those who are not apprised of the child's disease; attitude of others will affect child's body image.

Preserves body image by covering head if alopecia is present. Assists in improving self-esteem and

in learning, coping and problem solving skills.

(Revisions to care plan? D/C care plan? Continue care plan?)

INEFFECTIVE COPING AND COMPROMISED FAMILY COPING

Related to: (Specify: for the child: separation from family, friends, home, and school activities; loss of control, altered self-image, altered body image, altered self-esteem, and altered sense of self-confidence. For the parents: uncertainty of child's future, sense of helplessness and powerlessness, multiple family stressors and demands [related to child's health care needs].)

Defining Characteristics: (Specify: for the child: depression, anxiety, withdrawn, excessive outbursts of temper, insecurity, sleep and/or eating disturbances, regressive behaviors, behavioral problems [acting out], denial, difficulties in interpersonal relationships, nonadherence with treatment. For parents: shock, disbelief, anger, guilt, numbness, denial, ambivalence, bargaining, overprotectiveness, grief for the loss of their healthy child, anticipatory grief for the potential loss of their child.)

Goal: Family and child will cope more effectively by (date and time to evaluate).

Outcome Criteria

 \checkmark Family and child identify stressors.

 \checkmark Family and child verbalize 3 effective coping mechanisms to use.

NOC: Coping

INTERVENTIONS

RATIONALES

- Assess effectiveness of family coping methods; family interactions and expectations related to long-term, developmental level of family; response of siblings; knowledge and use of support systems and resources; presence of guilt, anxiety, overprotective and/or overindulgent behaviors.
- Encourage family members to express stressors and explore solutions responsibly.

Assist family in establishing shortand long-term goals for child and in integrating child into family activities; include participation of all family members in care routines.

Provide assistance of social worker, counselor, clergy, or other as needed. threatening illness. Suggest community agencies and the Provides information identifying successful coping methods or the need to develop new coping skills, behaviors and family attitudes; child with overprotection (e.g., not allowing child to attend school, participate in activities with peers, or assume responsibilities for ADL; avoiding disciplining of child) may be at risk in growth and development. Reduces anxiety and enhances understanding; allows family to identify problems and develop problem solving strategies. Promotes involvement and control over situations, and maintains role of family members and parents.

Provides support to the family faced with long-term care of child with a serious, life Provides information and support to American Cancer Society, that can provide contacts with families that have a child with leukemia or lymphoma.

- Allow family members to express feelings on how they deal with the chronic needs of family member and on coping patterns that help or hinder adjustment to the problems.
- Inform family of requested and needed information regarding long-term care and treatments.
- Inform family that overprotective behavior may hinder growth and development and that child should be treated as normally as possible.

Assist child and family to identify at least 3 coping mechanisms they can use to cope with the stressors of the child's illness. child and family.

Allows for venting of feelings to determine need for information and support, and relieves guilt and anxiety.

Enhances family understanding of medical regimen and responsibilities of family members. Promotes understanding of importance of making child one of the family and the adverse effects of overprotection of the child. Empowers the clients to take control of coping methods and find alternatives.

NIC: Family Involvement

Evaluation

(Date/time of evaluation of goal)

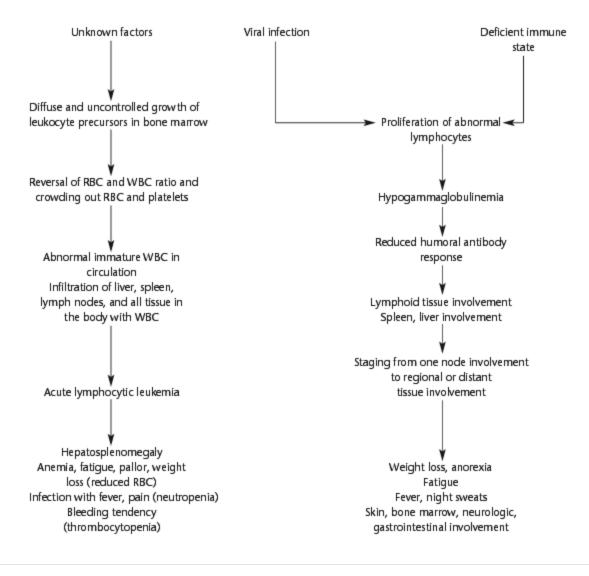
(Has goal been met? Not met? Partially met?)

(What stressors did the child and family identify? What 3 coping mechanisms did the child and family verbalize? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR LEUKEMIA AND LYMPHOMA

LEUKEMIA AND LYMPHOMA



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UNIT 9 - ENDOCRINE SYSTEM

CHAPTER 9.0 - ENDOCRINE GROWTH AND DEVELOPMENT

INTRODUCTION

The endocrine system includes the cells of certain glands that produce hormones; the organ or tissue sites that receive the hormone; and the transport system of the blood, lymph, and extracellular fluids that move the hormones from the point of origin to the point of utilization. Hormones may regulate general cell physiologic activities or may affect specific cells of the body. Glands included in this system are the pituitary, thyroid, parathyroid, adrenal, isles of Langerhans, ovaries, and testes. The system regulates and integrates functions with the neurologic system that assist the body to adjust behavior, growth, development, and sexual reproduction. In children, abnormal conditions involving these glands are caused by oversecretion or undersecretion of hormones or by a problem in the response to these hormones by the receiving organ or tissue. These abnormalities may result from congenital or acquired factors. They are usually treated by partial or complete surgical removal of the gland and/or drug therapy to replace hormone deficiencies.

GROWTH AND DEVELOPMENT

· Endocrine glands are well developed at birth, but their functions are immature.

• Secondary sex characteristics usually develop between 10 and 18 years of age in girls and between 12 and 20 years of age in boys; menarche usually occurs between 12 and 13 years of age.

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CHAPTER 9.1 - INSULIN-DEPENDENT DIABETES MELLITUS

INTRODUCTION

Insulin-dependent diabetes mellitus (IDDM) is a metabolic disorder caused by a deficiency of insulin. The deficiency is thought to occur in those individuals who are genetically predisposed to the disease and who have experienced a precipitating event, commonly a viral infection or environmental change, that causes an autoimmune condition affecting the beta cells of the pancreas. It is treated by injection of insulin and regulation of diet and activity that maintain body functions. Complications that occur from improper coordination of these include hypoglycemia and hyperglycemia which, if untreated, lead to insulin shock or ketoacidosis. Long-term effects of the disease include neuropathy, nephropathy, retinopathy, atherosclerosis, and microangiopathy.

MEDICAL CARE

Insulin Replacement: given to control blood glucose concentrations; administered one, two, or more times/day individually prescribed for child.

Blood Glucose: reveals levels greater than 120 mg/dL in a fasting specimen and 200 mg/dL or greater in a random specimen; 300 mg/dL level in ketoacidosis.

Ketones: reveal increase in the blood and urine.

Urine Glucose: reveals glycosuria.

COMMON NURSING DIAGNOSES

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to metabolize glucose.

Defining Characteristics: (Specify: loss of weight with adequate food intake, lack of interest in food, inadequate intake, insufficient insulin, too much insulin.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: injections and blood glucose monitoring, altered metabolic state, sensation, nutritional state.)

Defining Characteristics: (Specify: disruption of skin surfaces with daily injections [lipodystrophy], failure to rotate sites, weight loss, poor wound healing, dry skin.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Osmotic diuresis.

Defining Characteristics: (Specify: output greater than intake, decreased urine output, dry skin and mucous membranes, poor skin turgor,

dehydration with electrolyte depletion [K⁺, Na⁺, Cl⁻, Mg²⁺, PO³⁻] with ketoacidosis, polyuria, polydipsia.)

ADDITIONAL NURSING DIAGNOSES

RISK FOR INJURY

Related to: (Specify: hyperglycemia or hypoglycemia.)

Defining Characteristics: (Specify: hyperglycemia—fatigue, irritability, headache, abdominal discomfort, weight loss, polyuria, polydipsia, polyphagia, dehydration, blurred vision; hypoglycemia—nervousness, sweating, hunger, palpitations, weakness, dizziness, pallor, behavior changes, uncoordinated gait.)

Goal: Client will not experience injury from hyperglycemia or hypoglycemia.

Outcome Criteria

 \checkmark Blood glucose levels remain between 60 mg/dL and 120 mg/dL.

 \checkmark Urine is free of ketones and glucose.

NOC: Risk Detection

INTERVENTIONS

Assess for signs and symptoms of hyperglycemia, blood glucose level, urinary glucose and ketones, pH and electrolyte levels.

- Administer insulin SC as ordered (specify), rotate sites, increase dosage as indicated by glucose levels; decrease food intake during an infection or illness and adjust insulin dosage during an illness.
- Provide diet with calories that balance expenditure for energy (specify) and correspond to type and action of insulin, and snacks between meals and at bedtime as appropriate.

RATIONALES

- Provides information about complication caused by increased glucose levels resulting from improper diet, an illness, or omission of insulin administration; glucose is unable to enter the cells, and protein is broken down and converted to glucose by the liver, causing the hyperglycemia; fat and protein stores are depleted to provide energy for the body when carbohydrates are not able to be used for energy.
- Provides insulin replacement to maintain normal blood glucose levels without causing hypoglycemia; two or more injections may be given daily SC with a portable syringe pump or by intermittent bolus injections with a syringe and needle.
- Provides child's nutritional needs for proper growth and development using the exchange system developed and approved by the American Diabetic Association (ADA), or by carbohydrate counting-monitoring carbohydrate intake

Promote exercise program consistent with dietary and insulin regimen; teach to increase carbohydrate intake before vigorous activities. hypoglycemia.

Assess for signs and symptoms of hypoglycemia, blood-glucose level.

Provide rest and immediate source of a simple carbohydrate such as honey, milk, or fruit juice followed by a complex carbohydrate such as bread in amounts of 15 gm; repeat intake in 10 minutes for expected response of a reduced pulse rate; administer IV 50 percent glucose or glucagon IM if hypoglycemia is severe.

- Teach parents and child signs and symptoms to note, reasons why they occur, and interventions to correct the complication.
- Teach parents and child to regulate insulin, manage dietary intake, and exercise to accommodate needs of individual child.
- Teach parents and child to adjust insulin administration based on bloodglucose testing and glycosuria, during an illness or after changes in food intake or activities.
- Teach parents and child to administer a quick-acting carbohydrate followed by a longer-acting carbohydrate and to have Lifesavers, sugar cubes, Instaglucose on hand at all times; instruct parents that, in the case of severe hypoglycemia, if the child is unconscious or unable to take oral fluids, to rub honey or syrup on the child's buccal surface until alert enough to take fluids/foods by mouth.

Inform parents and child to report erratic blood and urine test results, only, maintaining consistent level at meals and snacks, and adjusting insulin as needed (requires close collaboration with physician).

- Aids in the utilization of dietary intake, regular activity may reduce amount of insulin required; a decrease in insulin and increased carbohydrate intake before vigorous exercise or activity may prevent
- Provides information about episodes of hypoglycemia resulting from increased activity without additional food intake or omission or incomplete ingestion of meals, incorrect insulin administration, illness.
- Alleviates the symptoms of hypoglycemia as soon as symptoms are noted; glucagon releases the glycogen stored in the liver to assist in restoring glucose levels; IV glucose is administered when condition is severe and child is unable to take glucose source PO. Glucagon, a hormone, releases stored glycogen from the liver and raises blood glucose in 5 to 15 minutes.
- Provides information about abnormal blood glucose levels causing complications of hyperglycemia, hypoglycemia, and the consequences.
- Maintains child's growth and development needs while preventing complications.

Prevents and/or treats hyperglycemia; avoids serious complication of ketoacidosis.

Prevents and/or treats hypoglycemia.

Prevents more serious complications and long-term effects of the disease; poor

difficulty in controlling blood glucose levels, presence of an infection or illness. control leads to serious and severe consequences in a few hours.

NIC: Surveillance

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is blood-glucose level? Is there any evidence of ketonuria or glucosuria?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DEFICIENT KNOWLEDGE

Related to: Lack of information about disease.

Defining Characteristics: (Specify: new diagnosis of IDDM; request for information about pathology, insulin therapy, dietary requirements, activity/exercise needs, blood and urine testing, personal hygiene and health promotion.)

Goal: Clients will obtain information about child's illness and treatment by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding of IDDM.

 \checkmark Clients demonstrate correct blood-glucose monitoring insulin administration, dietary management, and exercise planning.

 \checkmark Clients identify signs and symptoms of hypo- and hyperglycemia and correct response.

NOC: Knowledge: Disease Process

INTERVENTIONS

- Assess parents and child for knowledge of disease and ability to perform procedures and care, for educational level and learning capacity, and for developmental level.
- Teach about cause of disease, disease process and pathology; use pamphlets and other aids appropriate for age of child and level of comprehension of parents.
- Provide a quiet, comfortable
 environment; allow time for teaching

RATIONALES

Provides information needed to
 plan teaching program; children
 8 to 10 years of age may be able
 to take responsibility for some
 of the care.
Provides basic information that
 may be used as a rationale for
 treatments and care and allows
 for different teaching
 strategies.
Prevents distractions and
 facilitates learning.

small amounts at a time and for reinforcement, demonstrations and return demonstrations; start teaching 1 day following diagnosis and limit sessions to 30 to 60 minutes. Include as many family members in teaching sessions as possible.

Instruct parents and child in insulin administration including storing insulin, drawing up insulin into syringe, rotating vial instead of shaking, drawing clear insulin first if mixing 2 types in same syringe, injecting SC, rotating sites, adjusting dosages, reusing syringe, and needle, and disposing of them. (Instruct in use of syringe-loaded injector.)

(Instruct parents and child in operation and use of a portable insulin pump to adjust insulin delivery.)

Teach parents and child about collection and testing of blood for glucose 4 times a day (before meals and before bed), with a lancet and blood-testing meter or a reagent strip compared to a color chart; collection and testing of urine with ketostix or Clinitest (specify).

Teach parents and child about dietary planning with emphasis on proper meal times and adequate caloric intake according to age as ordered (offer food lists for free foods and exchanges according to the basic four groups and assist in preparing sample menus). Teach that food intake depends on activity, and describe methods to judge amounts of foods; provide list of acceptable food items from "fast food" restaurants, published by the ADA.

Teach parents and child about role of exercise and alterations needed in food and insulin intake with increased or decreased activity.

Teach parents and child about skin problems associated with diabetes, need for regular dental examinations, foot care, protection of and proper Promotes understanding and support
 of family and feeling of
 security for child.
Promotes accurate administration
 of insulin, which prevents
 complications.

Provides temporary method of insulin administration if child is afraid to puncture skin. Provides continuous subcutaneous insulin infusion.

Monitors glucose and ketone levels in blood and urine.

Provides information about an important aspect of total care of the child with diabetes according to the American Diabetic Association guidelines.

Provides information about usual activity pattern and effect on dietary intake and insulin needs.

Provides information about common problems resulting from longterm effects of the disease.

care of nails, prevention of infections and exposure to infections, eye examinations, immunizations. Instruct parents and child in recordkeeping for insulin, test results, responses to diet and exercise, to notify physician for noncompliance in medical regimen and treatment evaluation and effects. possible change. Encourage child to wear or carry identification and information about emergency. the disease, treatment, and physician name.

Provides a method to enhance selfcare and demonstrates the need Provides information in event of

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients verbalize understanding of IDDM? Did clients demonstrate correct glucose monitoring, insulin administration, diet management, and exercise planning? Did clients identify signs and symptoms of hypo- and hyperglycemia and correct response? Use guotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

COMPROMISED FAMILY COPING

Related to: (Specify: inadequate or incorrect information or understanding, prolonged disease or disability progression that exhausts the physical and emotional supportive capacity of caretakers.)

Defining Characteristics: (Specify: expression and/or confirmation of concern and inadequate knowledge about long-term care needs, problems and complications, anxiety and guilt, overprotection of child.)

Goal: Family will cope effectively by (date and time to evaluate).

Outcome Criteria

 \checkmark Family explores feelings about long-term needs of child.

 \checkmark Family identifies support systems and coping skills.

NOC: Family Coping

INTERVENTIONS

Assess family coping methods and effectiveness, family interactions and expectations related to long-

RATIONALES

Identifies coping methods that work and the need to develop new coping skills and behaviors, family

term care, developmental level of family, response of siblings, knowledge and use of support systems and resources, presence of guilt and anxiety, overprotection and/or overindulgence behaviors.

- Encourage family members and child to express problem areas, anxiety and explore solutions responsibly.
- Assist family to establish short- and long-term goals for child and to integrate child into family activities, include participation of all family members in care routines.
- Provide assistance of social worker, counselor, clergy, or other as needed.
- Suggest community agencies and contact with the American Diabetic Association or other families with a diabetic child.
- Allow family members to express feelings, to tell how they deal with the chronic needs of family member, and to describe coping patterns that help or hinder adjustment to the problems.
- Teach family about long-term care and treatments.

Teach family that overprotective behavior may hinder growth and development so they should treat child as normally as possible. Discuss importance of follow-up appointments for physical examinations, laboratory tests.

NIC: Family Involvement

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

attitudes; child with special longterm needs may strengthen or strain family relationships, and that overprotection may be detrimental to child's growth and development (e.g., not allowing child to attend school or participate in peer activities; avoiding discipline of child; and not allowing child to assume responsibilities for care). Reduces anxiety and enhances understanding; provides family an opportunity to identify problems and develop problem-solving strategies. Promotes involvement in and control over situations and maintains role of family members and parents.

- Provides support to the family faced with long-term care of child with a chronic illness. Provides information and support to
- child and family.

Allows for venting of feelings to determine need for information and support and to relieve guilt and anxiety.

Enhances family understanding of medical regimen and responsibilities of family. Promotes understanding of importance

of making child one of the family and demonstrates the adverse effects of overprotection of the child. Promotes positive outcome when family collaborates with the physician and

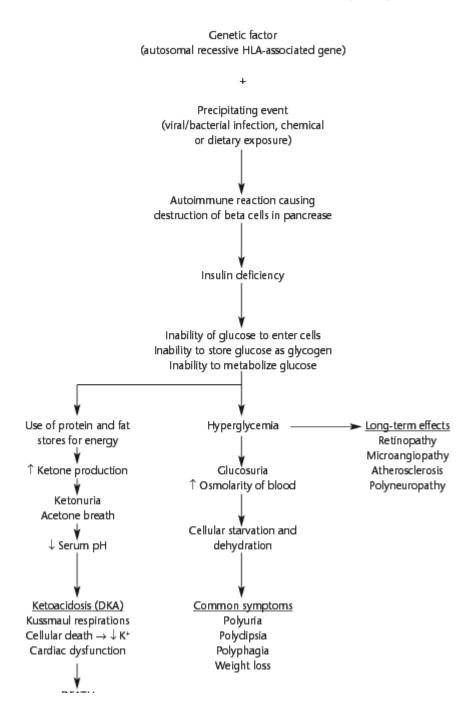
health team to monitor disease.

(Did family explore feelings about long-term needs of child? What support systems and coping mechanisms did the family identify? Provide quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR INSULIN-DEPENDENT DIABETES MELLITUS

INSULIN-DEPENDENT DIABETES MELLITUS (IDDM)



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CHAPTER 9.2 - HYPOTHYROIDISM

INTRODUCTION

Hypothyroidism is the result of inadequate thyroid hormone production to maintain body processes. It may be the result of congenital thyroid abnormality and therefore present in infancy or it may become notable during the first two years of life. It appears later when production is inadequate to maintain body processes as rapid growth increases the need for hormones. Acquired causes of the condition may be thyrotoxicosis, thyroidectomy, irradiation, infections, and dietary deficiency of iodine. Secretions of the thyroid gland include thyroid hormone (thyroxine, T4 and triiodothyronine, T3) which are bound to proteins in the blood (thyroxine-binding globulin, TBG) and thyrocalcitonin (maintains calcium levels in blood). The hormones are controlled by the thyroid-stimulating hormone (TSH) that is secreted by the anterior pituitary gland. Treatment of hypothyroidism is by thyroid hormone replacement, which involves prompt intervention in the infant and gradually increasing amounts of hormone administration in the child. Treatment is maintained throughout life to ensure restoration of thyroid deficiency.

MEDICAL CARE

Hormones: levothyroxine sodium (Synthroid) as replacement therapy for diminished or absent thyroid function.

Vitamins: vitamin D to ensure calcium levels during periods of growth requiring increased demands.

Lab Tests: T3 (triodothyronine), T4 (thyroxine), TBG (thyroxine-binding globulin), TSH (thyroid-stimulating hormone) by RIA (radioimmunoassay testing) reveals decreases indicating hormone deficiency.

Protein-Bound Iodine: reveals increases after 2 months of age.

Bone X-ray: reveals bone age and effect of thyroid deficiency or treatment.

Scan: reveals presence of gland with location, size, and shape of the organ; radioactive iodine uptake by thyroid gland is scanned and displayed on a screen for examination.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Internal factor of altered metabolic state (hypothyroidism).

Defining Characteristics: Skin pale, cool, dry, and scaly.

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: Inability to ingest or digest food; decreased body processes.

Defining Characteristics: Poor feeding, choking, thick tongue in infant; lethargy, reduced metabolic process, anorexia in child.

See CONSTIPATION

Related to: Less than adequate physical activity, decreased body process.

Defining Characteristics: Lethargy, decreased peristalsis, fatigue, reduced activity level.

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about disorder.

Defining Characteristics: Request for information about cause and treatment of the disorder, thyroid replacement.

Goal: Clients will obtain information about child's illness and treatment by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding of cause and treatment for hypothyroidism.

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

- Assess knowledge of disorder, signs and symptoms for infant or child as appropriate, replacement therapy.
- Teach parents and child about cause of thyroid deficiency and need for prompt treatment in infants and for gradual increases in thyroxine in children to achieve euthyroidism.
 Teach parents and child about thyroid replacement including administering daily for life without missing doses, crushing and mixing with food, giving at breakfast time.
 Teach parents and child to report nervousness, irritability, tachycardia, diarrhea.
 Reassure parents and child that improvement will be gradual as
- hormone levels are achieved and sleep, elimination, appetite, growth, and activity levels will improve.

- Provides information needed to
 develop plan of instruction to
 ensure compliance with medical
 regimen.
 Provides thyroid replacement over 4
 to 8 weeks in the child without
- to 8 weeks in the child without causing hyperthyroidism.

Ensures compliance with correct administration of thyroid replacement via oral route.

Indicates an excess of thyroid hormone and need for and adjustment in dosage. Promotes comfort and reduces anxiety caused by physical and mental changes brought about by the disorder, maintains realistic expectations from the treatment.

NIC: Teaching: Disease Process

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Evaluation

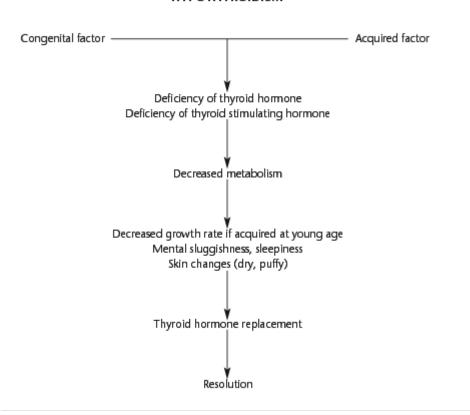
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What did clients say about the cause and treatment of hypothyroidism?)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR HYPOTHYROIDISM



HYPOTHYROIDISM

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UNIT 10 - INTEGUMENTARY SYSTEM

CHAPTER 10.0 - INTEGUMENTARY SYSTEM: BASIC CARE PLAN

INTRODUCTION

The integumentary system includes the skin and associated structures or appendages, which are hair, nails, and sensory skin receptors. Skin acts as a barrier to retain body fluids and electrolytes, a regulator of body heat, and a receptor of sensory stimuli (tactile, pain, heat and cold). It is made up of three layers including the epidermis (outer layer), the dermis (thicker layer directly under the epidermis), and the subcutaneous (fat and connective tissue under the dermis). Its appearance reflects the general health of an infant or child. Changes in the skin that alter appearance are a source of psychological stress and embarrassment to children. Common integumentary conditions of childhood are infections, lesions, wounds, and dermatitis disorders.

INTEGUMENTARY GROWTH AND DEVELOPMENT

Integumentary component structure and function:

- Skin is 1 mm thick at birth and increases to twice this thickness by maturity.
- Perspiration is present in the child over 1 month of age.
- Lanugo disappears by 3 months of age.
- Hair is soft and fine in texture in the young child and takes on adult characteristics with growth.
- Nails are soft in infant and young child and become hardened with growth and development.

• Pubic and axillary hair appear between 8 to 12 years of age, with axillary hair occurring 6 months later than pubic hair and facial hair in males occurring 6 months later than pubic hair; texture becomes coarse and curly with growth and development.

NURSING DIAGNOSES

RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: external mechanical factors of shearing, pressure, restraint forces; external factor of radiation; external factor of immobilization; external factors of excretions, humidity, infection.)

Defining Characteristics: (Specify: redness; edema; irritation of skin, perianal area, buttocks; excoriation or maceration of skin; enforced bed rest; induration or fissure in skin; scratching; rash; scales; crusting disruption of skin surface; destruction of skin layers with or without necrosis; open wound with drainage; pressure from cast, splint, brace, or other appliance/device; prolonged placement in one position.)

Related to: (Specify: internal factors of altered nutrition, circulation, sensation, skin turgor, metabolic rate, pigmentation and internal factors of medications, skeletal prominence, immunosuppression, developmental status, communicable disease.)

Defining Characteristics: (Specify: thin, fragile skin; temperature elevation; dryness; flakiness; pruritus; pallor; cyanosis; redness; jaundice; allergic response to food, medication; dermatitis; rash; muscle tissue wasting; weakness; decreased muscle strength; edema; disruption of skin surface; eruptions [papule, macule, vesicle]; loss of tactile perception in extremities.)

Goal: Client's skin will remain intact by (date and time to evaluate).

Outcome Criteria

 $\sqrt{}$ (Specify outcome criteria based on potential problems, e.g., no redness, edema, healed lesion.)

NOC: Risk Control

INTERVENTIONS

- Assess skin and mucous membranes for color changes, warmth, dryness, firmness, swelling or edema, lesions or breaks, and infection or inflammation of the oral cavity, nose, eyes, ears, and scalp. Assess mobility status, ability to move in bed, use of restraints and length of time restraint used, enforced bed rest as part of medical regimen, presence of any immobilization device.
- Assess for any skin rashes, dermatitis, pruritis, and scratching.
- Assess for open wounds and type of drainage (serosanguineous or purulent), peristomal skin, diarrhea and effect on perianal area, diaper rash from prolonged exposure to ammonia from urine decomposition.
- (Assess skin under cast edges, tightness of cast, color and sensation in toes or fingers, redness and fit discomfort under any immobilization or assistive [prosthetic] device.)
- Assess nutritional and hydration status including dehydration or fluid imbalances and obesity or emaciation with muscle wasting and weakness.
- (Assess effect of radiation therapy, presence and extent of burns,

RATIONALES

- Provides information about potential for disruption of skin integrity in any part of the body to ensure identification and intervention before impairment becomes too severe or extensive.
- Reveals ability for movement, external factors that produce pressure leading to skin breakdown as circulation of oxygen and nutrients is reduced.
- Reveals skin conditions that lead to impairment.
- Reveals presence of secretions and excretions that lead to skin impairment especially in infants and young children who have thinner, more sensitive skin.
- Reveals skin impairment causes and neurocirculatory effects of cast, splint, brace application.
- Reveals information regarding ability to maintain healthy skin and mucous membranes with proper nutrition and circulation to tissues and the preservation of muscle mass and strength needed to pad bony prominences and allow movement and position change. Provides rationale for preventive measures to treat risk for burns,

chemotherapy on skin, mucous membranes, and areas of vulnerability.) Assess skin cleanliness and examine bony prominences for changes, condition of hair and nails, use of cleansing products, and skin response; include assessment of effect of contact allergens that cause skin changes. Provide bathing in bed, tub, or shower (specify); use warm water and mild soap and rinse well, with a soft towel pat dry and (avoid rubbing) including all folds, crevices, and creases. Provide careful cleansing of eyes with either warm, sterile water or saline and soft cloth from inner to outer aspect of eve; nasal mucosa with warm water and application of a protective lubricant; oral mucosa with a peroxide solution mouthwash. Provide hair shampooing, nail trimming as ordered; cut nails straight across with round-tipped scissors; dry hair well, rubbing gently with soft towel. Apply emollients, lotions to skin, bony prominences with gentle massage using fingers and/or hands as ordered. (Apply skin adhesive barrier to peristomal area including tracheostomy, urinary or bowel diversion, and over bony prominences if immobilized or too weak or ill to move in bed.) Provide position change q 1 to 2h as indicated with prone, supine, side or elevated position utilized; if child is able, encourage to change positions on own. Maintain body alignment and encourage

to maintain correct posture when sitting, lying, and walking. Pad bony prominences and susceptible

parts with sheepskin, foam rubber, pillows, alternating pads and mattress, special apparatus such as stomatitis, impairment, and infection caused by immunosuppression. Provides information about removal of dirt, irritants, bacteria, sweat, urine, feces to promote skin integrity and offers an assessment opportunity.

Promotes health and cleanliness of skin, reduces accumulation of body secretions and excretions, and reduces bacteria in skin folds where bacterial growth is enhanced.

Promotes intact mucous membranes from irritation and breakdown caused by pressure or inflammation from tubes or by suctioning, chemotherapy, or NPO status; rapidly dividing epithelial tissue of oral and nasal mucosa leads to breakdown when receiving chemotherapeutic agents. Promotes cleanliness and prevents

- skin irritation or breaking caused by scratching with long nails.
- Protects and softens skin and promotes circulation to vulnerable parts.

Prevents prolonged pressure on any one area leading to skin and tissue breakdown.

Promotes even pressure on body parts.

Protects vulnerable parts from pressure and redistribution weight and improves circulation.

3 of 6

Protects skin that is exposed to secretions and excretion or pressure.

Stryker frame. Maintain tight, wrinkle-free linens Prevents irritation and excoriation and bed free of crumbs, sharp toys, of skin. and dampness from urine or feces. (Correct tight dressings by loosening Reduces external sources of pressure that decrease circulation or tape, correct dry and sticking irritate skin. dressings with saline solution before removing, secure tubing away from skin contact, correct fit of any prosthesis or immobilization device, petal edges of cast with soft adhesive material.) Apply topical skin medications Promotes healing and prevents (ointments, solutions) as ordered infection (action). (specify); bathe or soak area or extremity. Provide bath with oatmeal or other Soothes pruritis and prevents emollients, mitts on hands, scratching. temporary soft restraints as needed. Provide nutritional diet that is high Promotes tissue healing with in protein and calories and includes synthesis of protein to meet vitamins A and C. metabolic needs and formation of collagen and connective tissue by vitamins A and C. Promotes healing and prevents (If wound present, provide dressing infection and further skin change, irrigations, debridement, wet or dry dressing, Op-site as breakdown. ordered specific to wound.) Teach parents to remove environmental Prevents or controls skin rashes or irritants, chemical agents, and eruptions caused by contact with allergens that have an outward offending substances. effect on the child's skin (fabrics, soaps, lotions, toys, dust, pollens, plants, animals, others). Teach parents and child about bathing Promotes cleanliness and removes and personal hygiene measures infectious agents from the skin. regarding toileting, mouth and teeth care, nail and hair care, and to avoid wearing tight-fitting clothing. Teach parents and child about Promotes healing of any skin wound nutritional diet and fluids to or breakdown. provide or replenish needed intake if skin disruption is present. (Instruct parents in dressing change Promotes wound cleanliness and using sterile technique, allow for healing. return demonstration.) (Inform parents to maintain mobility Promotes circulation to skin and of child, avoid allowing child to tissues. remain in same position over 1 hour.) Teach parents to report any changes in Allows for adjustment of device

skin color, irritation, pain or absence of sensations, breaks in skin.	prosthesis or appliance.
Teach parents to report any redness, swelling, pain, purulent drainage from skin or mucous membrane, lesions or open wounds.	Provides early interventions if skin infection present.
Instruct in application of lotions or ointments (antiseptic, antibiotic, or palliative) to skin and irritated areas as ordered (specify).	Protects skin and promotes comfort.
Advise child to avoid scratching or picking at skin or squeezing eruptions.	Prevents further damage to skin and risk for infection.
Teach parents about safety to prevent burn injuries (specify).	Provides information for protective measures.
Teach parents on first aid measures for skin insults (e.g., burns, insect bites) (specify).	Provides information for early intervention.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Provide data related to the outcome criteria for the specific client.)

(Revisions to care plan? D/C care plan? Continue care plan?)

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CHAPTER 10.1 - BURNS

INTRODUCTION

Burns are injuries to the skin and underlying tissues caused by flames, electricity, contact with hot articles or water, or radiation therapy. Burns affect children of all ages. They are classified according to severity, source, and extent of surface involved. Most burn injuries occur in children under 5 years of age. Severe burns affect all systems with local responses that include edema, circulatory stasis, and fluid loss. Systemic responses include circulation alteration, anemia, fluid loss, metabolic alteration, acidosis, and stress response. Burns that involve over 10% of body surface require hospitalization with management of ventilation, fluid and electrolyte imbalance, pain control, nutrition, wound care, infection prevention, skin grafting, and rehabilitation.

MEDICAL CARE

Analgesics: for pain relief.

Antimicrobials: applied topically as ointment to affected areas.

Vitamins/Minerals: to facilitate growth and replace depleted stores.

Complete Blood Count (CBC): reveals decreased RBC, Hgb, HCT.

Electrolyte Panel: reveals decreases because of loss from burned areas.

Proteins: reveals decreases with protein breakdown and losses.

Blood Urea Nitrogen/Creatinine: reveals increases as tissue is destroyed and in presence of oliguria.

Wound Culture: reveals and identifies infectious organism if present and sensitivity to anti-infective treatment.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Burn.

Defining Characteristics: (Specify: disruption of skin surface or layers, destruction of skin layers, edema, altered circulation, altered nutritional state, altered metabolic state.)

See IMBALANCED NUTRITION: LESS THAN BODY REQUIREMENTS

Related to: (Specify: inability to ingest, metabolize nutrients.)

Defining Characteristics: (Specify: catabolism, protein and fat wasting, anorexia, diarrhea, weight loss.)

See IMPAIRED PHYSICAL MOBILITY

Related to: (Specify: pain and discomfort, musculoskeletal impairment.)

Defining Characteristics: (Specify: limited range of motion, impaired joint flexibility, scar formation, reluctance to attempt movement.)

See INEFFECTIVE BREATHING PATTERN

Related to: Musculoskeletal impairment.

Defining Characteristics: (Specify: trauma/edema of airway, oral or nasal membranes, restlessness, tachypnea, dyspnea.)

See RISK FOR DEFICIENT FLUID VOLUME

Related to: Excessive losses.

Defining Characteristics: (Specify: loss of protective skin, blood loss from stress ulcer, electrolyte imbalance, reduced cardiac output with reduced plasma and blood volume.)

See DELAYED GROWTH AND DEVELOPMENT

Related to: Effects of long-term disability.

Defining Characteristics: (Specify: altered physical growth, inability to perform self-care or self-control activities appropriate for age.)

ADDITIONAL NURSING DIAGNOSES

PAIN

Related to: Burn injury.

Defining Characteristics: (Specify: communication [verbal or nonverbal] of pain descriptors depending on severity and type of burn, moaning, crying, restlessness, guarding of injured area.)

Goal: Client will experience decreased pain by (date and time to evaluate).

Outcome Criteria

 \checkmark Pain is rated as less than (specify level and pain scale used).

NOC: Pain Level

INTERVENTIONS

RATIONALES

Assess pain in burned area for severity and degree of burn (specify frequency).

Administer analgesic as ordered (specify) depending on severity of pain and status of other systems; administer before procedures and care are performed; anticipate need before pain becomes severe. Provide relaxation, diversionary activities (specify).

Place in position of comfort, change q 2h, and handle injured parts gently.

Avoid touching painful parts, use bed cradle over injured, painful parts.

Apply ointment to healing skin that is itchy and flaking, as ordered (specify).

Teach parents about methods to relieve pain including quiet play, reading to child, television, music, games, soft toys, other activities to interest to child.

Instruct parents and child to protect injured areas from contact with pain including stimuli. Provides information about pain that varies in severity with extent and depth of burn, cause of burn injury (chemical, thermal). Relieves and controls pain

response caused by injury to superficial nerve endings (action of drug).

Provides nonpharmacologic relief of pain.

Promotes comfort and prevents additional pain caused by rough handling or pressure on injured body parts. Prevents contact with linens of

hard surfaces that cause pain.

Provides relief from discomfort of itching with use of an antihistamine cream. Provides information about interventions that may distract child from any discomfort experienced.

Prevents further injury and pain.

NIC: Pain Management

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is pain rating? Specify scale used)

(Revisions to care plan? D/C care plan? Continue care plan?)

RISK FOR INFECTION

Related to: Inadequate primary defenses.

Defining Characteristics: (Specify: broken skin, traumatized tissue, new skin graft, fever, purulent drainage from open wound or under eschar,

positive wound culture.)

Goal: Client will not experience infection by (date and time to evaluate).

Outcome Criteria

 \checkmark Temperature remains <101° F.

 \checkmark Wound is without redness, edema, odor, or purulent drainage.

NOC: Risk Detection

INTERVENTIONS

RATIONALES

Assess healing wounds for changes in Provides information indicating infection of wound or skin color, odor and drainage. Assess VS and temperature elevation. graft area. Administer antibiotics, as ordered (Action of drug.) (specify). Perform protective isolation as Protects child from exposure to appropriate including mask, gown, infectious organisms. gloves; perform hand-washing before giving any care; discourage visits from those who are suffering from an infection or who are ill. Apply antimicrobial wet dressings to Destroys infectious agents and wound or antimicrobial ointment as protects wound from ordered when performing a dressing infection. change. Use sterile technique to perform all Protects wound from pathogens dressing changes and wound care. and reduces risk of infection. Instruct parents in handwashing Provides method of controlling technique and importance of exposure to infectious procedure in caring for child. agents. Instruct parents in healing process Provides information about and expected changes in skin process of healing and during healing; how to assess changes to note that should wound and graft for signs of be reported. infection that should be reported. Instruct parents to avoid any Prevents transmission of contact with family, friends, infectious agents to the visitors that are ill with an child. infection. Instruct parents in administration Promotes compliance with of antimicrobial therapy via PO or medication regimen to prevent topical application.

NIC: Surveillance

or treat infection.

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(What is temperature? Describe wound. Is there any redness, edema, odor, or purulent drainage?)

(Revisions to care plan? D/C care plan? Continue care plan?)

DISTURBED BODY IMAGE

Related to: Biophysical and psychosocial factors.

Defining Characteristics: (Specify: verbal and nonverbal responses to change in body appearance [scarring, deformity], loss of control, dependence, negative feelings about body, multiple stressors and change in daily living limitations and social relationships.)

Goal: Child will experience improved body image by (date and time to evaluate).

Outcome Criteria

 \checkmark Child expresses feelings about how they look.

 \checkmark Child identifies at least 1 positive thing about self.

NOC: Body Image

INTERVENTIONS

INTERVENTIONS	RATIONALES
Assess child for feelings about multiple restrictions in lifestyle, change in appearance, difficulty in school and social situations, inability to keep up with peers and participate in activities.	Provides information about status of self-concept and body image that require special attention.
Encourage expression of feelings and concerns and support communications with parents, teachers, and peers.	Provides opportunity to vent feelings and reduce negative feelings about changes in appearance.
Avoid negative comments and stress positive aspect of activities and accomplishments.	Enhances body image and confidence.
Note withdrawal behavior and signs of depression.	Reveals responses to body image changes and possible poor adjustment to changes.
Show support and acceptance of changes in appearance of child; provide privacy as needed.	Promotes trust and demonstrates respect for child.
Allow as much control and decision	Promotes independence and gives

making by child as possible.

Allow and encourage parental and peer visits when possible. Inform parents of importance of maintaining support for child regardless of their needs.

Inform parents and child of impact of the disease on body systems and risk of scarring, physical disability; correct any misinformation and inform of ways to cope with body changes.

Instruct parents of need for flexibility in care of child and need to integrate care and routines into family activities; to allow child to participate in peer activities.

Inform parents and child about how to deal with peer and school perceptions of appearance and how to tell others about change in appearance.

Inform of clothing, wigs, scarves, makeup that may assist in preserving body image.

Suggest psychological counseling or child life worker and inform of functions performed by these professionals. child some control over the situation. Promotes social acceptance by peers and support by parents. Encourages acceptance of the child with special needs, long-term rehabilitation needs, lifelong activity restrictions. Provides correct information to assist in dealing with negative feelings about body.

Promotes well-being of child and sense of belonging and control of life events by participating in normal activities for age and enhancing developmental task achievement.

Prevents stigmatization of child by those who are not apprised of the child's disease; attitude of others will affect child's body image.

Provides suggestions for aids that will camouflage scarring or disfigurement.

Assists to improve self-esteem and to learn coping and problem solving skills.

NIC: Self-Esteem Enhancement

Evaluation

(Date/time of evaluation of goal)

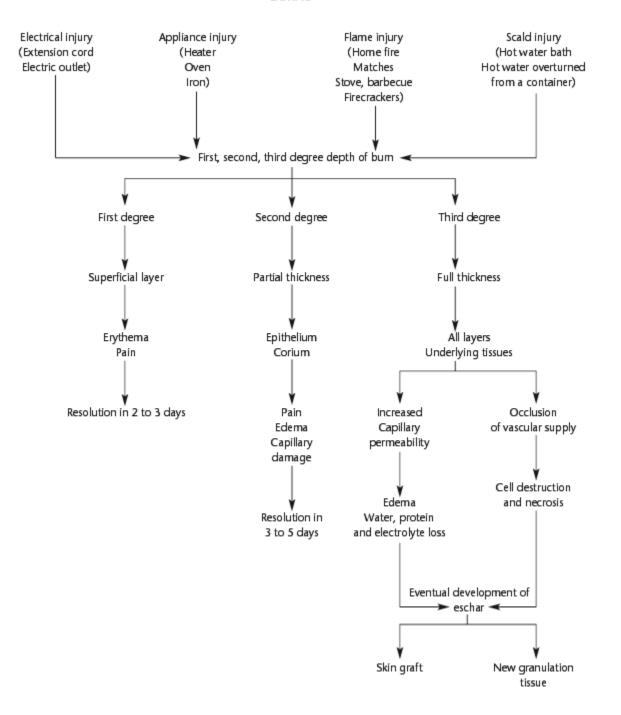
(Has goal been met? Not met? Partially met?)

(What feelings did child verbalize about how he or she looks? What positive thing about self did child identify? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR BURNS

BURNS



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CHAPTER 10.2 - CELLULITIS

INTRODUCTION

Cellulitis is an infection of the skin and underlying subcutaneous tissue affecting the lymph nodes within the area of inflammation. It may follow an upper respiratory infection and become systemic in its symptomology. The most common areas affected are the face, periorbital area, and extremities. Treatment includes antibiotic therapy.

MEDICAL CARE

Antipyretics/Analgesics: to reduce fever and/or control pain.

Antibiotics: based on culture identification of organism and sensitivity to drugs.

Wound Aspirate/Blood Culture: reveals and identifies infectious agent if present and sensitivity to specific antimicrobial treatment.

COMMON NURSING DIAGNOSES

See HYPERTHERMIA

Related to: Illness (infection).

Defining Characteristics: Increase in body temperature above normal range, flushed skin that is warm to touch, increased pulse and respiration rate.

See RISK FOR DEFICIENT FLUID VOLUME

Related to: (Specify: altered intake; excessive losses through normal routes.)

Defining Characteristics: (Specify: temperature elevation, diaphoresis, insensible losses, dry, hot skin and mucous membranes.)

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: Infection of skin layers.

Defining Characteristics: (Specify: redness, swelling, induration, warmth, pain at affected areas, destruction of skin layers.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about condition.

Defining Characteristics: (Specify: request for information about cause and treatment of the condition, measures to prevent spread of the infection.)

Goal: Clients will obtain information about cellulitis by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding about the cause and treatment of cellulitis.

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

- Assess knowledge of treatment of an infection, possible complications, extent of infection, and risk of spread.
- Inform parents of cause of the infection and manifestations to note including pain, redness, swelling, warmth of a localized infection and to report increasing temperature, enlarged lymph nodes in the region, and a red streak along the lymph pathway in a systemic infection.
- Administer antibiotics as ordered (specify), teaching parents about administration with dose, time, frequency, side effects, and instruct to take until entire prescription is ingested.
- Inform parents that culture is done to determine treatment.
- Instruct parents to apply warm compresses or soaks to affected area or limb.
- Instruct parents in dressing change using sterile technique if an incision and drainage has been done at infection site, and instruct in proper disposal of soiled dressing.
- Instruct parents and child in handwashing technique and instruct them to perform this before and after giving care to the child. Inform parents to immobilize limb and maintain bed rest for the child.

- Provides information needed to plan teaching that will assist parents in caring for child with an infection involving skin layers. Provides information indicating cellulitis and spreading of infection systemically.
- Provides treatment to destroy causative agent by inhibiting cell wall synthesis; route is dependent upon site and severity of the infection.
- Provides identification of microorganism and sensitivity to specific antibiotics. Promotes vasodilation and circulation to the area to promote healing. Promotes wound cleanliness and prevents introduction of additional pathogens.
- Prevents transmission of infectious agents.
- Promotes healing and reduces pain caused by movement if an extremity is involved.

NIC: Teaching: Disease Process

Evaluation

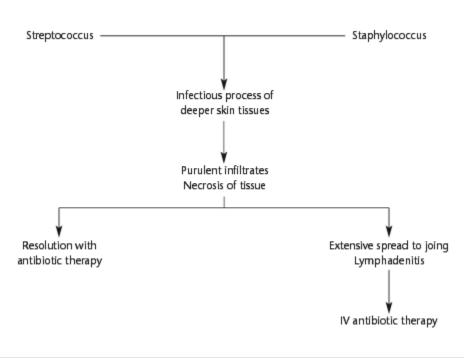
(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

(Did clients verbalize understanding about cause and treatment for cellulitis? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR CELLULITIS



CELLULITIS

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CHAPTER 10.3 - DERMATITIS

INTRODUCTION

Dermatitis is an inflammatory condition of the superficial layer of the skin. It may be caused by contact with an allergen, urine, or feces, and it may cause irritation characterized by erythema, papules, or vesicles. Treatment includes actions to prevent infection and skin breakdown.

MEDICAL CARE

Anti-inflammatories: hydrocortisone in cream, lotion, ointment forms to apply topically to suppress inflammatory process and modify immune response to hypersensitivities.

Antihistamines: to relieve allergic response and promote rest.

Antipruritics: applied topically as compresses, lotion, or for bathing to allay itching.

Skin Protectors: applied topically to protect skin against contact with irritants.

COMMON NURSING DIAGNOSES

See RISK FOR IMPAIRED SKIN INTEGRITY

Related to: (Specify: excretions and secretions, contact with allergens or irritants.)

Defining Characteristics: (Specify: rash, erythema, papule, vesicle, lesions, disruptions of skin surface, itching.)

ADDITIONAL NURSING DIAGNOSES

DEFICIENT KNOWLEDGE

Related to: Lack of information about disorder.

Defining Characteristics: (Specify: request for information about cause and treatments of dermatitis and measures to prevent recurrence.)

Goal: Clients will obtain information about dermatitis by (date and time to evaluate).

Outcome Criteria

 \checkmark Clients verbalize understanding of cause and treatment for dermatitis (specify for individual child).

NOC: Knowledge: Disease Process

INTERVENTIONS

RATIONALES

Assess type and extent of dermatitis including site and offending irritant, presence of redness, papules, vesicles, breaks in skin, excoriation, itching. Inform of potential factors causing eruptions/dermatitis and how to avoid contact with offending agents (specify: e.g., clothing covering all part of body, to wash after contact with substance, to use hypoallergic soaps, proper use of skin applications, and proper changing and laundering of diapers). (Teach about application of ointment or lotion as ordered to treat diaper rash, to cleanse and dry area well diapers. during diaper change, to expose irritated area to the air; laundering diapers by soaking, using mild soap, double rinsing, and drying well in clothes dryer or in sun.) Teach parents about palliative treatments (specify: such as application of warm, wet compresses and lotion or paste to the affected down. areas, and baths; discourage child from scratching the areas.) Instruct parents in administration of antibiotics, anti-inflammatories, antihistamines as ordered. Inform parents to avoid dressing child in tight clothing, to wash new clothing before wearing, to rinse clothing well during laundering. Inform parents to use sun protection with a minimum sun protection factor of 15 such as PABA. Suggest toys, games, television, and activities preferred by child; maintain short, smooth nails.

NIC: Teaching: Disease Process

Evaluation

(Date/time of evaluation of goal)

(Has goal been met? Not met? Partially met?)

Provides information about rash resulting from contact that may be chemical or physical and most commonly is caused by ammonia from diaper, plant, animal, cloth, soap, or sun exposure. Provides information to assist in avoiding contact with substances that cause dermatitis.

Promotes healing of skin irritation caused by ammonia in diapers.

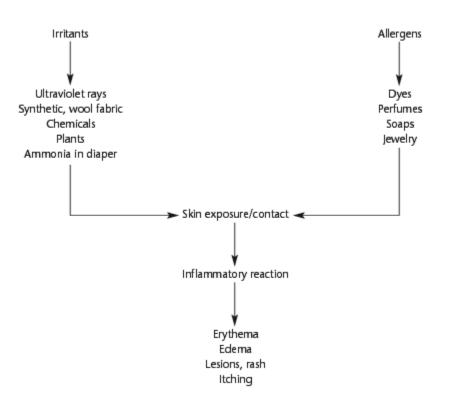
Promotes comfort and healing, allays pruritis, and prevents infection if skin is broken down.

Reduces allergic reactions and prevents complications associated with dermatitis. Promotes comfort and prevents risk of contact with substance that may cause rash.

Protects skin from sunburn by blocking or absorbing ultraviolet rays. Provides diversion to prevent scratching. (Did clients verbalize understanding about cause and treatment for dermatitis? Use quotes.)

(Revisions to care plan? D/C care plan? Continue care plan?)

FLOW CHART FOR DERMATITIS



DERMATITIS

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APPENDIX

ABBREVIATIONS

- I: increase
- I: decrease
- $\rightarrow:$ leads to
- >: greater than
- <: less than
- °: degree
- **AAP:** American Academy of Pediatrics
- ABO: refers to the blood types A, B, or O
- ABG: arterial blood gas
- ADHD: attention deficit hyperactivity disorder
- AFDC: Aid to Families with Dependent Children
- AIDS: acquired immunodeficiency syndrome
- ALT: alanine aminotransferase (also SGPT)
- **APTT:** activated partial thromboplastin time
- ARDS: adult respiratory distress syndrome
- **AROM:** artificial rupture of membranes
- **ASD:** atrial septal defect
- AST: aspartate aminotransferase (also SGOT)
- BBT: basal body temperature
- BM: bowel movement
- BP: blood pressure

- **BRP:** bathroom privileges
- BUN: blood urea nitrogen
- C: centigrade
- cal: calories
- **CBC:** complete blood count
- cc: cubic centimeters
- CD & I: clean, dry, and intact
- **CHF:** congestive heart failure
- CI⁻: chloride
- CNS: central nervous system
- c/o: complains of
- **CO:** cardiac output
- CO2: carbon dioxide
- **CPAP:** continuous positive airway pressure
- **CPT:** chest physiotherapy
- **CRP:** C-reactive protein
- CSF: cerebral spinal fluid
- **CT**: computerized axial tomography
- **CVP:** central venous pressure
- CVA: cerebral vascular accident
- DAT: diet as tolerated
- **D/C:** discharge
- **DCFS:** Department of Children and Family Services

- **DIC:** disseminating intravascular coagulation
- dL: deciliter
- DNA: deoxyribonucleic acid
- dsg: dressing
- DtaP: diptheria, tetanus, activated pertussis
- DTR: deep tendon reflexes
- **EBL:** estimated blood loss
- ECMO: extracorporeal membrane oxygenation
- **ECT**: electroconvulsive therapy
- **EEG:** electroencephalogram
- e.g.: for example
- ELISA: enzyme-linked immunosorbent assay
- F: Fahrenheit
- FFP: fresh frozen plasma
- FiO2: fraction of inspired oxygen
- FVE: fluid volume excess
- **FVD:** fluid volume deficit
- **GBS:** group B streptococcus
- GC: gonorrhea
- **GFR:** glomerular filtration rate
- GI: gastrointestinal
- gm: gram
- **GTT:** glucose tolerance test

- GU: genitourinary
- H⁺: hydrogen ion
- Hct: hematocrit
- Hgb: hemoglobin
- Hib: Haemophilus influenzae, type b
- **HIE:** hypoxic-ischemic encephalopathy
- **HIV:** human immunodeficiency virus
- H₂O: water
- HOB: head of bed
- hr: hour
- HR: heart rate
- Ht: height
- HTN: hypertension
- hx: history
- I&O: intake & output
- **ICP:** intracranial pressure
- **ID:** identification
- IDDM: insulin-dependent diabetes mellitus
- Ig: immune globulin
- IM: intramuscular
- IMV: intermittent mechanical ventilation
- **IPPB:** intermittent positive pressure breathing
- **IPV:** inactivated poliovirus vaccine

- IV: intravenous
- IVP: intravenous push
- K⁺: potassium
- KVO: keep vein open
- kcal: kilo calories
- kg: kilogram
- L: liter
- LOC: level of consciousness
- LR: lactated Ringer's
- **MAE:** moves all extremities
- **mEq:** milliequivalent
- mg: milligram
- mL: milliliter
- **mm Hg:** millimeters of mercury
- **MRI**: magnetic resonance imaging
- Mg²⁺: magnesium
- MMR: measles, mumps, rubella vaccine
- Na⁺: sodium
- **NIC:** nursing interventions classification
- **NPO:** nothing by mouth
- NTD: neural tube defect
- **N&V:** nausea and vomiting

- O2: oxygen
- **OG:** orogastric
- **OTC:** over-the-counter
- **OR:** operating room
- oz: ounce
- P: pulse
- PaCO₂: arterial carbon dioxide pressure
- PaO2: arterial oxygen pressure
- PCA: patient controlled analgesia
- **PEEP:** positive end expiratory pressure
- PO: by mouth
- PO2: partial pressure of oxygen
- **PO₄³⁻:** phosphorus
- **PPV:** positive pressure ventilation
- prn: as needed
- PT: prothrombin time
- PTT: partial thromboplastin time
- **PVC:** premature ventricular contraction
- PVR: pulmonary vascular resistance
- q: every
- R: respirations
- RBC: red blood cell
- REEDA: redness, edema, echymosis, approximation

- **RN:** registered nurse
- SaO₂: oxygen saturation
- SC: subcutaneous
- SGOT: serum glutamic-oxaloacetic transaminase (AST)
- **SGPT:** serum glutamic-pyruvic transaminase (ALT)
- **sp. gr.:** specific gravity
- SR: side rails
- s/s: signs and symptoms
- **STD:** sexually transmitted disease
- SVR: systemic vascular resistance
- T: temperature
- TCDB: turn, cough, and deep breathe
- TCM: transcutaneous monitoring
- TcPaO2: transcutaneous partial pressure of oxygen
- TcPaCO₂: transcutaneous partial pressure of carbon dioxide
- Td: tetanus toxid vaccine
- TEF: tracheoesophageal fistula
- TGV: transposition of the great vessels
- **TPN:** total parenteral nutrition
- TPR: temperature, pulse, respirations
- TSH: thyroid stimulating hormone
- **UA:** urinalysis
- **URI**: upper respiratory infection

- UTI: urinary tract infection
- **VP:** ventriculoperitoneal
- VS: vital signs
- VSD: ventricular septal defect
- WBC: white blood cell
- WIC: women, infants, and children program
- WNL: within normal limits
- Wt: weight
- w/o: without
- **ZDT:** zidovudine

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BIBLIOGRAPHY

Alfaro-LaFevre, R. (2004). Critical thinking in nursing: A practical approach (3rd ed.). Philadelphia: W.B. Saunders Co.

American Academy of Pediatrics. (2000). Pickering, L. (Ed.). 2000 Red book: Report of the committee on infectious diseases (25th ed.). Elk Grove, IL: Author.

Ball, J. W., & Binder, R. C. (2002). Pediatric nursing: Caring for children (3rd ed.). Upper Saddle River, NJ: Prentice Hall.

Barnum, B.S. (1999). Teaching nursing in the era of managed care. New York: Springer Publishing.

Behrman, R. E., Kleigman, R. M., Jenson, H. B. (2004). Nelson's textbook of pediatrics (17th ed.). Philadelphia: W.B. Saunders.

Betz, C., Snowden, L. A., & Betz, L. (2004). *Mosby's pediatric nursing reference* (5th ed.). St. Louis: Mosby.

Brazelton, T. B. (1984). Neonatal behavioral assessment scale (2nd ed.). London: Heinemann.

Burns, C., Barber, N., Brady, M., & Dunn, A. (2000). Pediatric primary care: A handbook for nurse practitioners. Philadelphia: W.B. Saunders.

Carpenito, L. J. (2004). Handbook of nursing diagnosis (10th ed.). Philadelphia: Lippincott Williams & Wilkins.

Carpenito, L. J. (2004). Nursing diagnosis: Application to clinical practice (10th ed.). Philadelphia: Lippincott Williams & Wilkins.

Daly, K. A., Selvius, R. E., & Lindgren, M. S. (1997). Knowledge and attitudes about otitis media risk: Implications for prevention. <u>*Pediatrics, 100*(6),</u> 931-936.

DeLaune, S.C., & Ladner, P.K. (2002). Fundamentals of nursing: Standards and practice (2nd ed.). Clifton Park, NY: Thomson Delmar Learning.

Dochterman, J. M., & Bulechek, G.M. (2004). Nursing Interventions Classificaton (NIC) (4th ed.). St. Louis: Mosby, Inc.

Fischbach, F. T. (2004). A manual of laboratory and diagnostic tests (7th ed.). Philadelphia: Lippincott Williams & Wilkins.

Fleming, D. F. (1999). Challenging traditional insulin injection practices. *American Journal of Nursing*, 99(2), 72-74.

Foley, G. V., Fochtman, D., & Mooney, K. H. (1997). *Nursing care of the child with cancer* (3rd ed.). Philadelphia: W.B. Saunders.

Gardner, P. (2003). Nursing process in action. Clifton Park, NY: Thomson Delmar Learning.

Harkreader, H. (2004). Fundamentals of nursing: Caring and clinical judgment (2nd ed.). Philadelphia: W.B. Saunders Co.

Hazinski, M. F. (1999). Manual of pediatric critical care. St. Louis: Mosby.

Jackson, P. L., & Vessey, J. A. (2000). Primary care of the child with a chronic condition (3rd ed.). St. Louis: Mosby.

Kaditis, A. G., & Wald, E. R. (1999). Viral group: Current diagnosis and treatment. Contemporary Pediatrics, 16(2), 139-153.

Kee, J. L. (2001). Laboratory and diagnostic tests with nursing implications (6th ed.). Norwalk, CT: Appleton & Lange.

Kelly-Heidenthal, P. (2003). Nursing leadership and management. Clifton Park, NY: Thomson Delmar Learning.

Kozier, B., Erb, G., Blais, K., & Wilkinson, J. (2004). *Fundamentals of nursing: Concepts process and practice* (7th ed.). Upper Saddle River, NJ: Pearson Education.

McCance, K. L., & Huether, S. E. (2002). Pathophysiology: The biologic basis for disease in adults and children (4th ed.). St. Louis: Mosby.

Meyers, T. A., Eichhorn, D. J., Guzzetta, C. E., Clark, A. P., Klein, J. D., Taliaferro, E., & Calvin, A. (2000). Family presence during invasive procedures and resuscitation. *American Journal of Nursing*, *100*(2), 32-42.

Moorhead, S., Johnson, M., & Maas, M. (2004). Nursing outcomes classifications (NOC) (3rd ed.). St. Louis: Mosby, Inc.

Nettina, S. (2001). The Lippincott manual of nursing practice (7th ed.). Philadelphia: Lippincott Williams & Wilkins.

North American Nursing Diagnosis Association. (2003). Nursing diagnoses: Definitions & classification 2003-2004. Philadelphia: Author.

Olds, S. B., London, M. L., & Ladewig, P. A. (2000). *Maternal-newborn nursing: A family and community-based approach* (6th ed.). Upper Saddle River, NJ: Prentice Hall.

Pasero, C. (1999). Pain control: Epidural analgesia in children. American Journal of Nursing, (99)5, 20.

Pizzo, P. A., & Poplack, D. G. (2001). *Principle and practice of pediatric oncology* (4th ed., pp. 1343-1355). Philadelphia: Lippincott Williams & Wilkins.

Porth, C. M. (2002). Pathophysiology. Concepts of altered health states (6th ed.). Philadelphia: Lippincott Williams & Wilkins.

Rudolph, C. D., Hostetter, M. K., Siegel, N. J., & Lister, G. E. (2002). Rudolph's pediatrics (21st ed.). Stamford, CT: Appleton & Lange.

Smeltzer, S., & Bare, B. (2004). Brunner and Suddarth's textbook of medical-surgical nursing (10th ed.). Philadelphia: Lippincott Williams & Wilkins.

Ulrich, S., & Canale, W. (2001). *Nursing care planning guides: For adults in acute, extended and home care settings* (5th ed.). Philadelphia: W. B. Saunders Co.

Whaley, L. F., & Wong, D. L. (1999). Nursing care of infants and children (6th ed.). St. Louis: Mosby Year Book.

White, L. (2003). Documentation and the Nursing Process. Clifton Park, NY: Thomson Delmar Learning.

Wilkinson, J. M. (2000). Nursing diagnosis handbook (7th ed.). Upper Saddle River, NJ: Prentice Hall.

Wilson, B. A., Shannon, M. T., & Stand, C. L. (2000). Nurse's drug guide 2000. Stamford, CT: Appleton & Lange.

Wolfe, J., Grier, H. E., Klar, N., Levin, S. B., Ellenbogen, J. M., Salem-Schaltz, S., Emanuel, E. J., & Weeks, J. C. (2000). Symptoms and suffering at the end of life in children with cancer. *New England Journal of Medicine*, 342(5), 326-333.

Wong, D. L., Hockenberry-Easton, M., Wilson, D., Winkelstein, M., & Schwartz, P. (2001). *Wong's Essentials of Pediatric Nursing* (6th ed.). St. Louis: Mosby.

Yoos, H. L., & McMullen, A. (1999). Symptom perception and evaluation in childhood asthma. *Nursing Research, 48*(1), 2-8.

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