Registered Nursing (LPN to RN Ladder) Program

NUR 245 Nursing Theory I Obstetric and Pediatric Nursing

CURRICULUM

Course syllabus, lectures and homework

Developed by SOUTH SEATTLE COMMUNITY COLLEGE

Funded by the Seattle Community-Based Health Care Training Partnership Project



Seattle CENTRAL Community College NORTH Seattle Community College SOUTH Seattle Community College SVI Seattle Vocational Institute

This product was funded by a grant awarded under the President's Community-Based Job Training Grants as implemented by the U.S. Department of Labor's Employment & Training Administration. The information contained in this product was created by a grantee organization and does not necessarily reflect the official position of the U.S. Department of Labor. All references to non-governmental companies or organizations, their services, products, or resources are offered for informational purposes and should not be construed as an endorsement by the Department of Labor. This product is copyrighted by the institution that created it and is intended for individual organizational, non-commercial use only.

South Seattle Community College LPN to RN Ladder Program NUR 245 – Nursing Theory I – Obstetric and Pediatric Nursing Course Syllabus Fall 2007

COLLEGE MISSION: South Seattle Community College is a constantly evolving educational community dedicated to providing quality learning experiences which prepare students to meet their goals for life and work.

The College values and promotes a close involvement with the community and strong partnerships with business, labor and industry.

The college commits to meeting the diverse needs of students by providing:

- College transfer programs and technical and professional programs which prepare students to succeed in their careers and further their education.
- Responsive technical and professional training programs developed in collaboration with business, labor and industry.
- Student-centered and community centered programs and services which value diversity, support learning, and promote student success.
- Lifelong learning opportunities for the cultural, social, professional and personal development of the members of our communities.

NURSING PROGRAM PHILOSOPHY:

Congruent with the South Seattle Community College <u>mission</u> and <u>student learning</u> <u>objectives</u>, the philosophy of nursing education is one of commitment to lifelong learning and the provision of safe, compassionate, quality nursing care to individuals, families and communities.

The graduate will be trained to work independently and alongside other healthcare professionals in multiple healthcare settings.

The RN is committed to: the promotion and restoration of health, the prevention of illness in individuals, families, groups and communities, safe, competent and compassionate nursing care for all across life span.

Nursing is a science and an art whose main concern involves the life processes that positively affect the health status and integrity of persons, families and communities. These life processes involve physiological, psychological, sociological, and spiritual life components. A focus on the interaction of these components delineates nursing science and art. Nurses value and respect diversity and provide culturally sensitive and competent care.

Purpose

The purpose of the SSCC evening and weekend LPN to RN Ladder Program is to prepare graduate nurses who have increased knowledge, critical thinking and decision-making skills to provide safe, competent and compassionate care to individuals in multiple care settings. It also serves to expand and enhance the educational and career ladder opportunities in nursing, and to provide a pathway within South Seattle Community College and the Seattle Community College District. Special emphasis is placed on ethnic minority students and students with emerging English. English as a Second Language programs are incorporated into the curriculum throughout the program. The graduate nurse will be prepared to sit for the National Council for Licensure Examination for Registered Nurses Exam.

NURSING PROGRAM EDUCATIONAL OUTCOMES

- 1. Utilize knowledge, critical thinking and decision making through the nursing process of assessment, analysis, planning, implementation and evaluation to meet the complex needs of the client/family, in a variety of settings.
- 2. Utilize theory and clinical practice to ensure critical thinking; clinical expertise and human caring that treat all clients/families with respect and dignity.
- 3. Apply knowledge of the concepts of health and illness, client medications, treatments and diagnosis and self-care concepts to maintain and restore the highest level of wellness of the client/family throughout the life cycle.
- 4. Assess health and incorporate principles and methods of health promotion and education to facilitate informed decision-making, achieve positive outcomes, and support self-care activities. Provide effective client/family education and evaluate response to teaching.
- 5. Provide safe and competent care utilizing advanced knowledge, skills, informational technology and resources in an interactive process to promote effective communication between clients/families from various socio-cultural and linguistic backgrounds, and members of the health care team.
- 6. Assess family systems/dynamics and collaborates and shares planning, decision-making, problem solving and goal setting to meet clients' complex needs.
- 7. Demonstrate professional standards regarding cultural, ethical, legal and professional nursing values.
- 8. Demonstrate awareness of own capabilities and limitations and actively seek learning opportunities for continued growth.
- 9. Function as a registered nurse within various health care settings recognizing management and leadership qualities, accountability, decision-making tools, and ethical and legal basis for practice
- 10. Describe the dynamic aspects of health care delivery in America and the professional role of the registered nurse in the health care delivery system.

South Seattle Community College Student Learning Outcomes

SSCC is committed to the following seven student learning outcomes for every student graduating with a certificate or degree:

- 1. Communication
 - 1. Read and listen actively to learn and communicate
 - 2. Speak and write effectively for personal, academic and career purposes
- 2. Computation
 - 1. Use arithmetic and other basic mathematical operations as required by the program of study.
 - 2. Apply quantitative skills for personal, academic and career purposes
 - 3. Identify, interpret and utilize higher level mathematical and cognitive skills
- 3. Human Relations
 - 1. Use social interactive skills to work in groups effectively
 - 2. Recognize diversity of cultural influences and values
- 4. Critical Thinking and Problem-Solving
 - 1. Think critically in evaluating information, solving problems, and making decisions
- 5. Technology
 - 1. Select and use appropriate technology tools for personal, academic and career tasks
- 6. Personal Responsibility
 - 1. Be motivated and able to continue learning and adapt to change
 - 2. Values one's own skills, abilities, ideas and art
 - 3. Take pride in one's work
 - 4. Manage personal health and safety
- 7. Information Literacy
 - 1. Access and evaluate information from a variety of sources and contexts, including technology
 - 2. Use information to achieve personal, academic and career goals, as well as to participate in a democratic society

COURSE DESCRIPTION: This course discusses the roles and responsibilities of the registered nurse. It builds on students' current knowledge necessary to plan and implement care related to various complex conditions of obstetric and pediatric populations. Emphasis will be given to client needs, safe, effective care environment, health promotion and maintenance, psychosocial and physiological integrity in the obstetric and pediatric client and their families. Pharmacology will be integrated throughout the course as it relates to obstetric and pediatric population. Another aspect of the class will discuss how specific cultural practices and beliefs may impact treatment modalities. Coreq: NUR 246, 247.

COURSE OBJECTIVES:

- 1. Compare and contrast roles of LPN vs. RN
- 2. Relate pathophysisiological concepts to various complex conditions in obstetric and pediatric clients.
- 3. Demonstrate the ability to plan and implement care for clients experiencing various conditions/complications related to obstetrics and pediatrics
- 4. Discuss the diagnostic tests relevant to various complex conditions of the obstetric and pediatric client
- 5. Formulate nursing diagnosis and client goals for obstetric and pediatric clients with various complex conditions of illness
- 6. Discuss appropriate assessment techniques to utilize when caring for the client with complex conditions in the obstetric and pediatric clients
- 7. Discuss medications and its administration specific to the obstetric and pediatric clients
- 8. Identify and discuss various cultural practices and beliefs related to the obstetric and pediatric population

FACULTY:

Pediatric Instructor: Tiffany Jasperson RN, BSN

MSN Candidate, SPU Office: RAH 101E Office Phone: (206) 764-7964 Cell Phone: (206) 293-1031 Email: <u>tjasperson@sccd.ctc.edu</u> Office Hours: Mondays and Tuesdays, 4:30-5:30 pm or by appointment

OB Instructor: Suzann Martin CNM, MSN

Office: RAH 101C Cell Phone: (425) 750-6441 Email: smartin@sccd.ctc.edu Office Hours: Tuesdays 1400-1600 or by appointment

CLASS TIMES:

Monday: 6:30 pm-9:00 pm; Pediatrics; RAH 309 Tuesday: 4:00 pm –6:30 pm; OB; RAH 309

REQUIRED BOOKS:

1. Wong, D., Perry, S., Hockenberry, M., Lowdermilk, D., Wilson, D. (2006). *Maternal child nursing care*. (3rd ed.). St. Louis, MO: Mosby Elsevier. ISBN: 0-323-02865-9

2. Wong, D., Perry, S., Hockenberry, M., Lowdermilk, D., Wilson, D. (2006). *Study Guide: maternal child nursing care*. (3rd ed.). St. Louis, MO: Mosby Elsevier. ISBN: 0-323-03201-X

Students Subject to Provisions of the Americans with Disabilities Act:

Any student who feels she/he may need an accommodation based on the impact of a disability should contact the instructors privately to discuss your specific needs. You should also contact the Disability Support Services office at (206) 763-5137 in room RS 12 in the Robert Smith Building to coordinate reasonable accommodations for students with documented disabilities.

Expectations of students:

There are a number of expectations to achieving the goals of this course and successfully passing the State Licensed Practical Nursing Exam. They include:

- A. <u>Attendance</u>: Your success in this class will depend on regular attendance and punctuality.
 - 1. Attendance is expected at <u>every class</u>, <u>every laboratory and every clinical</u> <u>day!</u>
 - 2. If class is missed, students should get missed information from lecture or lab from a classmate. Instructors will not provide missed information.
 - 3. In the case of a critical life event, homework, quizzes, and exams may be made up, at the discretion of the faculty.

B. Exams:

- 1. Any missed examinations will be reduced for lateness by 10% i.e., the highest grade you can achieve is 90%. Make up exams will have different questions or alternate format than the original exam and must be scheduled in advance.
- 2. ATI standardized examinations will be used as graded exams at the end of this course in addition to traditional written final exams.
- 3. ATI examinations are proctored computer examinations that simulate NCLEX testing and are meant to measure your competency in each specialty area. The ATI exams are scored by proficiency level (i.e. from best to worst performance: Proficiency level 3, 2, 1, and below level 1). Students must score within Proficiency Level 2 or above to receive 100% on the exams. Any score below Proficiency Level 2 will be calculated by dividing the student's score by the lowest possible Proficiency Level 2 score.
- 3. For example, if the Proficiency Level 2 score range was 63-72%, a student scoring in Proficiency Level 1 at 53% would receive 53/63 = 84%
- 4. The results are immediately viewable on the computer after the student has completed the exam including score, national and class percentile rank, and proficiency level.
- 5. At NO time during any exam may a student use a cell phone as a calculator. Non-graphing calculators may be acceptable for use on some exams.

C. <u>Reading:</u>

- 1. Reading of textbook assignments should be done **before** the topic is presented in class to ensure a basic understanding of the topic before lecture.
- 2. See reading list.

D. Homework:

- 1. Homework assignments must be turned in within the first 5 minutes of class or before the quiz is given.
- 2. Late homework assignments will not be accepted and the student will receive 0 points for the assignment. See calendar for due dates.

E. <u>Quizzes</u>:

- 1. Quizzes will be based on the reading and homework assignments, and given prior to the lecture.
- 2. Missed quizzes cannot be made up except for critical life events and at the discretion of the instructor. Arrangements for missing a quiz must be made in advance. The instructor will decide on a case-by-case basis whether a quiz can be taken BEFORE class time on the date that the quiz is to be given. At NO time will a quiz be allowed to be made-up after the quiz has been given to the entire class.

F. Active Participation in class discussions:

1. Active participation is important to successful learning. You will be encouraged to join in on class discussions, share relevant experiences, and ask questions. Emphasis is placed on practicing English in order to promote English fluency.

G. Grading and Evaluation:

- 1. Theory requires a 78% (2.0) to pass. Lab and Clinical sections will receive a pass/fail and not be averaged into the grade. However a 78% must be achieved in these areas as well and will be determined by adding the points for each of the projects, skills, or clinical performance areas.
- 2. If at any time you are below 78% you will be placed on warning and given a **Learning Agreement** (see Section F 5 of student handbook) to be signed by you and the instructor with your plan for remediation. The intent of the Learning Agreement is to let you know how you are progressing and allow you time to remedy the situation. You may choose to write a comment in the "comments" section.
- 3. Due to our agreements with clinical sites and our ethical responsibility to ensure patient safety in the clinical setting, **if at any time your theory grade falls below 78% you will not be permitted to go to clinical**. There are no clinical make-up days and **students will receive a 0 for any clinical days missed** for this reason.

If you find that you are having difficulty at any time, please contact the instructors for an appointment for additional tutoring.

THEORY GRADE: Must have a cumulative 78% (2.0) or above to pass the course

\triangleright	3 quizzes OB @ 50 points	150 pts
\triangleright	3 quizzes PEDS @ 50 points	150 pts
\triangleright	20 weekly homework assignments @ 15 pts.	300 pts
\triangleright	2 final exams @ 100 pts	200 pts
\triangleright	Two class group projects @ 50 pts.	100 pts
\triangleright	ATI Maternal/Child	50 pts
\triangleright	ATI Nursing Care of Children	50 pts
	Total possible	1000 pts

If you have an issue with the material on quizzes or exams, you may put your concern in writing and email it to the instructor. If you believe another answer is correct, please include the page number from the book where you got your information or other source with your rationale. You may not approach the instructor on the day of the quiz/exam, but please email your concern in writing as soon as possible, no later than the beginning of the following class period. If changes are made, you will be informed during the following class. No grade changes will be made if submissions are not made in writing.

- 4. Students will be responsible for knowing the status of their grade by keeping track of weekly homework, quiz, and exam scores on the grade keeper provided.
- 5. If, at any time, your grade falls below 78%, YOU are responsible for approaching the instructor to establish a Learning Agreement.

STUDENT CONDUCT

1. Each student is responsible for his/her own learning and personal integrity in the learning process. Cheating is defined as giving or receiving inappropriate assistance from another person such as giving and/or receiving answers to test questions. It will be considered cheating if you talk to another student with a quiz or exam in your hand. Plagiarism is failing to give credit to sources in homework, care plans or other assignments (See Handbook Appendix). In other words, the work you do must be your own. Any student found to be plagiarizing or cheating on a quiz or exam will receive 0 points for the assignment and will be sent to the V.P. of Student Services who may place the student on probation or remove the student from the program.

- 2. Cell phones and pagers are required to be *turned off* during class time. Silent pagers may be used but returning the call must be done at break time. Personal calls and trips to the bathroom should be taken at the break time provided.
- **3.** Students are expected to participate in an orderly manner. Students whose behaviors distract from the learning process will be asked to leave for the day and will count as an absence. This includes talking during class time, checking email and using the Internet without permission. Work missed must be obtained from someone in the class and if in the clinical the objectives missed must be accomplished during the quarter.
- **4.** Students are expected to dress modestly and neatly and be well groomed both in the classroom and the lab (high heels, low neck lines, mini skirts and heavy perfume are inappropriate). Students are to dress professionally and abide by clinical site clothing requirements.

The instructor will give a Learning Agreement if deemed necessary to alert the student to the seriousness of their inappropriate behavior as well as for failure to perform academically. It is also a remediation process in which the student is able to verbalize and write their plans for future behaviors and learning. *The signing of the document does not mean that you agree, only that you have read it.* (See appendix: Learning Agreement) Misconduct without resolution will result in the student being referred for further disciplinary action by the Program Director, Executive Dean or VP for Student Services and may result in dismissal from the program.

EXPECTATIONS OF THE INSTRUCTORS:

The instructors and tutors will:

- 1. Come prepared for class and will arrive on time or early
- 2. Try not to deviate from the course schedule
- 3. Treat you with respect in classes, listen to you and provide you with information you need to achieve the knowledge, skill, and motivation to successfully complete the course.
- 4. Respect cultural differences

Teaching Methods:

- 1. Class Lecture (Power Point or Overhead)
- 2. Case Study Analysis
- 3. Role Playing
- 4. Videos
- 5. Games

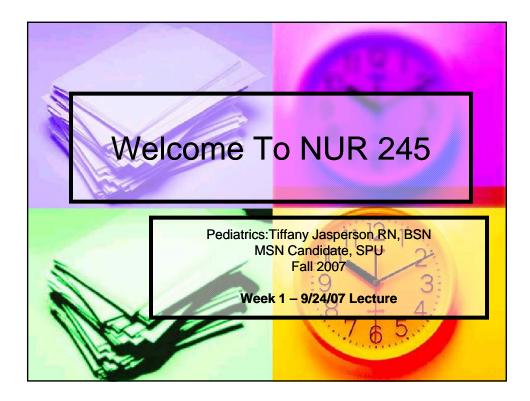
(This is not an exhaustive list.)

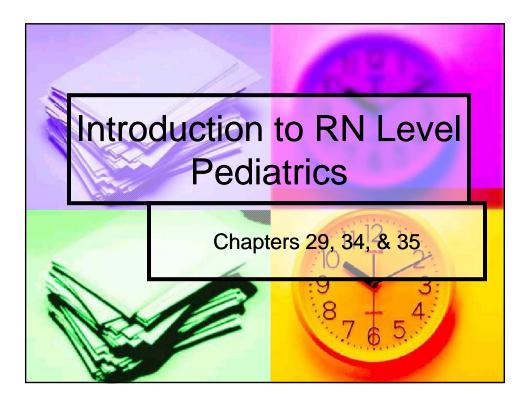
WEBSITE <u>http://tiffany.jasperson.googlepages.com</u>

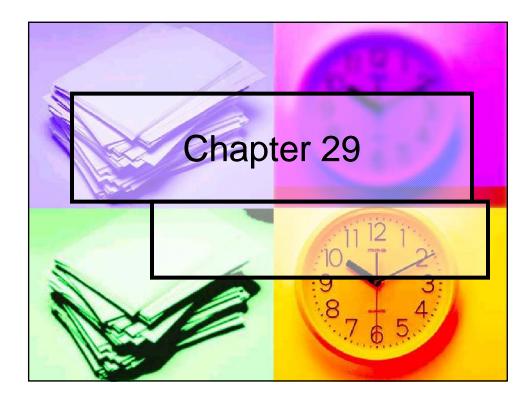
Date	Topics	Reading/Due Dates
September 24	 Welcome and Orientation Handbook Syllabus Contemporary Pediatric Nursing Communication and Health Assessment of Child & Family Physical and Developmental Assessment of the Child 	Wong & Perry Chapters 29, 34, 35
September 25	 Welcome and Orientation Syllabus Contemporary Maternity Nursing The Family and Culture Community and Home Care 	Wong & Perry Chapters 1, 2, 3
October 1	Developmental Influences Infant and Family Respiratory Dysfunction	Wong & Perry Chapters 33, 36, 46
October 2	Health Promotion and Prevention Health Assessment Common Health Problems	Wong & Perry Chapters 4, 5, 6
October 8	Family Influences on Child Health Promotion Reaction to Hospitalization and Illness Gastro Intestinal Dysfunction	Wong & Perry Chapters 31, 44, 47 Peds Quiz #1
October 9	Infertility, Contraception, and Abortion Genetics, Conception, and Fetal Development Assessment for Risk Factors	Wong & Perry Chapters 7, 8, 9
October 15	Toddler and Family Cardiovascular Dysfunction	Wong & Perry Chapters 37, 48
October 16	Anatomy & Physiology of Pregnancy Nursing Care during Pregnancy	Wong & Perry Chapters 10, 11 OB Quiz #1

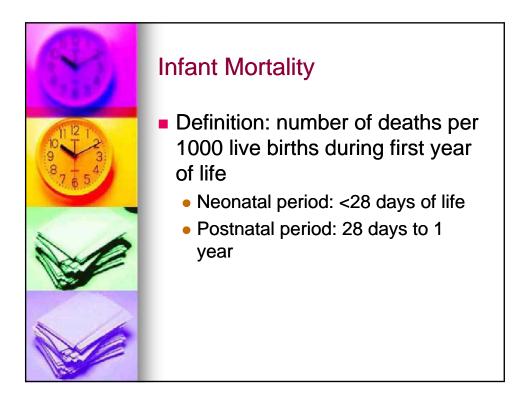
October 22	Social, Cultural, and Religious Influences Endocrine Dysfunction	Wong & Perry Chapters 32, 52
October 23	Maternal & Fetal Nutrition Pregnancy @ Risk: Preexisting Conditions Pregnancy @ Risk: Gestational Conditions	Wong & Perry Chapters 12, 13, 14
October 29	Preschooler and Family Cognitive and Sensory Impairment Cerebral Dysfunction	Wong & Perry Chapters 38, 42, 51 Peds Quiz #2
October 30	Labor and Birth Processes Management of Discomfort Nursing Care during Labor and Birth	Wong & Perry Chapters 15, 16, 18 OB Quiz #2
November 5	Chronic Illness, Disability, and End-of-Life Care Hematologic and Immunologic Dysfunction	Wong & Perry Chapters 41, 49
November 6	Fetal Assessment during Labor Labor and Birth at Risk	Wong & Perry Chapters 17, 19
November 12	Veteran's Day: NO CLASS	However to make up the hours you will need to read the following chapters to cover School-Aged Child and Family and Genitourinary Dysfunction: Wong & Perry Chapters 39, 50
November 13	Maternal Physiological Changes Nursing Care during Fourth Trimester Transition to Parenthood Postpartum Complications	Wong & Perry Chapters 20, 21, 22, 23
November 19	Musculoskeletal or Articular Dysfunction Neuromuscular or Muscular Dysfunction	Wong & Perry Chapters 54, 55 Peds Quiz #3
November 20	Physiological Adaptations of the Newborn Nursing Care of the Newborn Newborn Nutrition and Feeding	Wong & Perry Chapters 24, 25, 26 OB Quiz #3

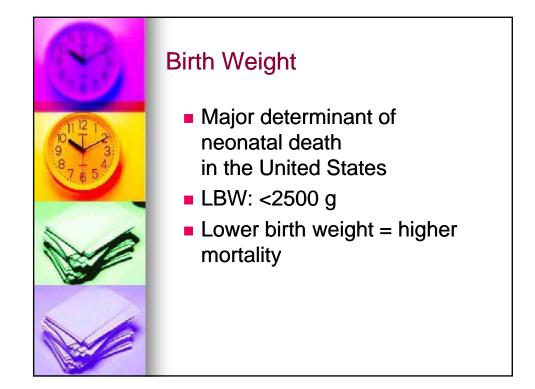
November 26	Adolescent and Family	Wong & Perry Chapters 40, 43, 53
	Family-Centered Home Care	
	Integumentary Dysfunction	PEDS FINAL
November 27	Infants with Gestational Age-Related Problems	Wong & Perry Chapters 27, 28
	The Newborn at Risk: Acquired and Congenital Problems	OB FINAL
December 3	Pediatric Final Testing	Exam: Pediatric ATI
December 4	OB Final Testing	Exam: OB ATI













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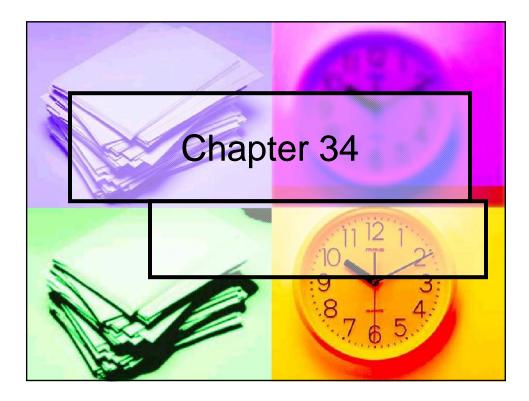


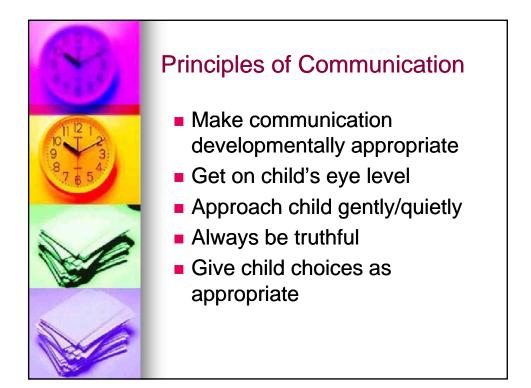


Evidence-Based Nursing Practice

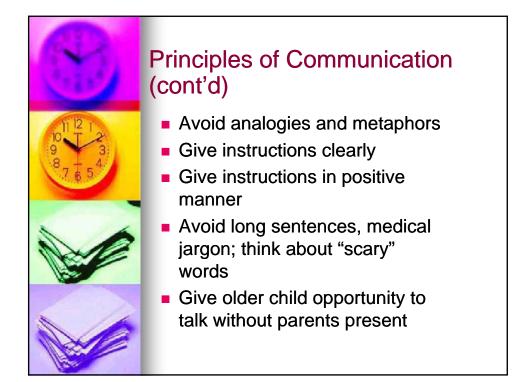
- Implies questioning WHY something works
- Is there another/better approach?
- Analyzing and translating research into the actual daily practice of nursing







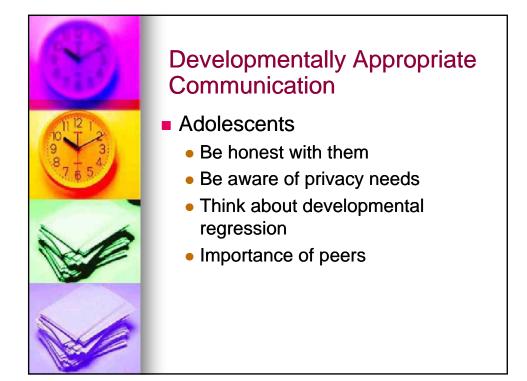


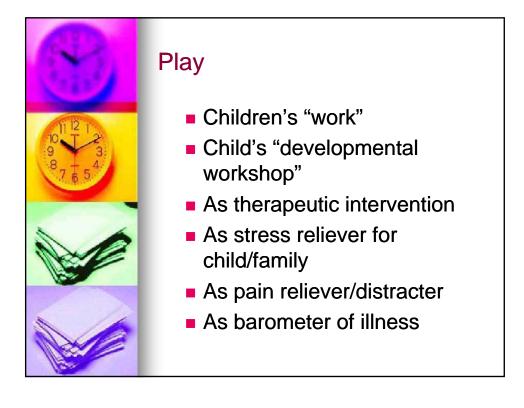




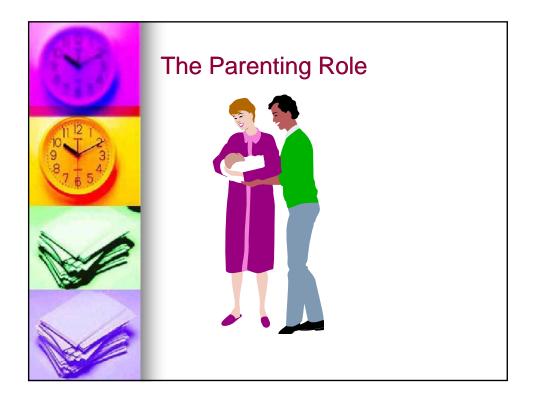


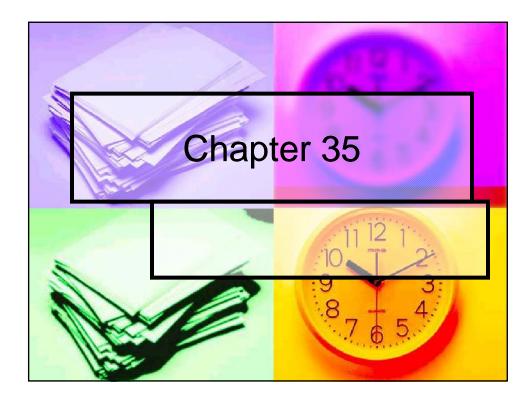


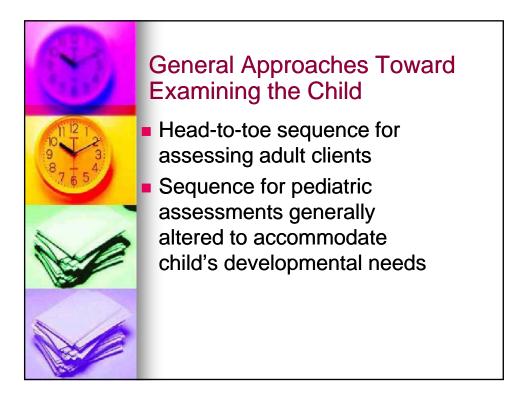








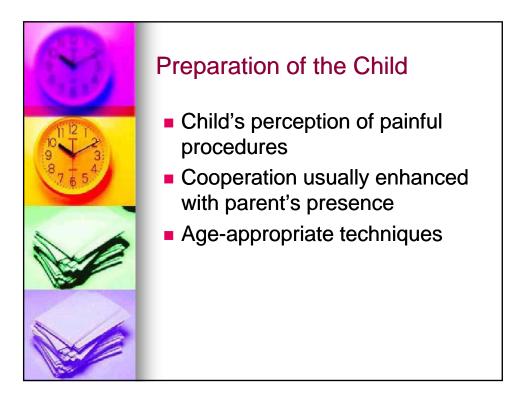


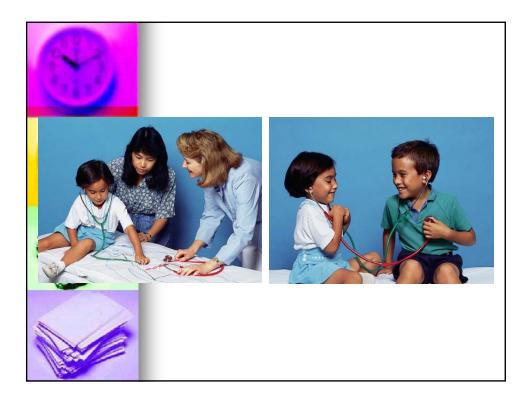


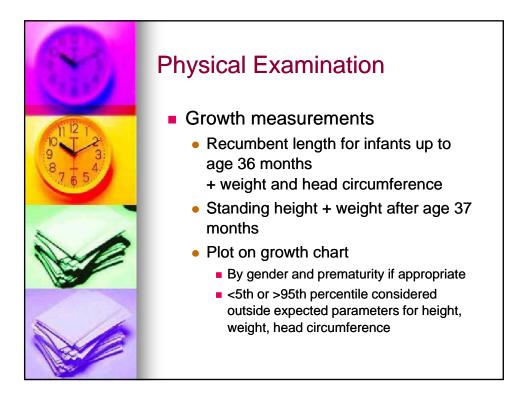


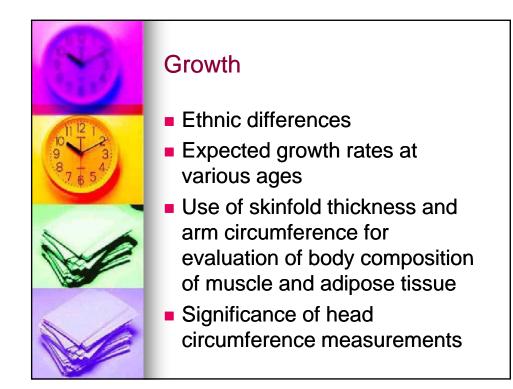
Goals of Pediatric Assessment

- Minimize stress and anxiety associated with assessment of various body parts
- Foster trusting nurse-child-parent relationships
- Allow for maximum preparation of child
- Preserve security of parent-child relationship
- Maximize accuracy of assessment findings





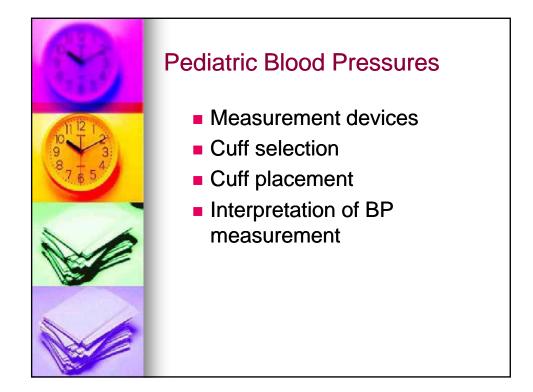


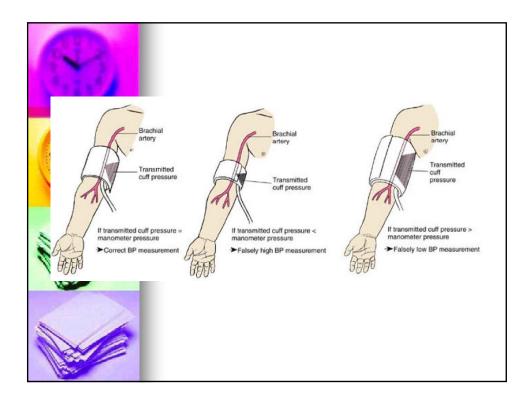


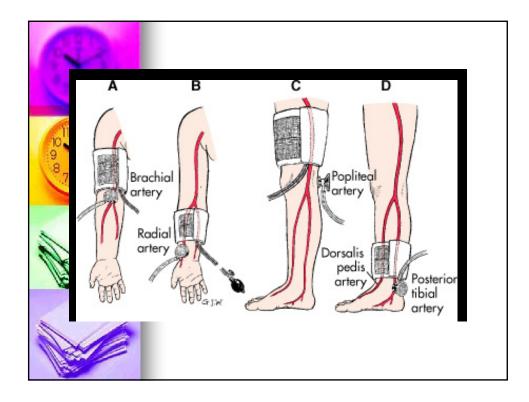


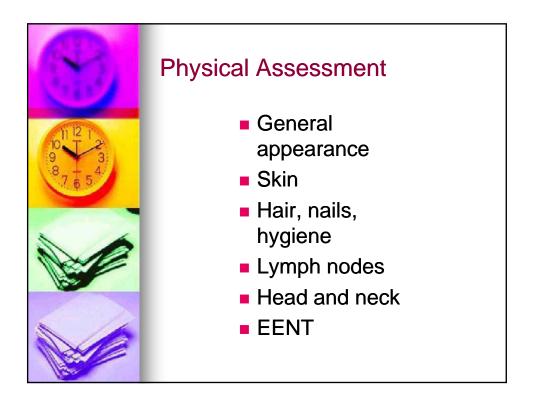
Infant and Toddler Vital Sign Measurement

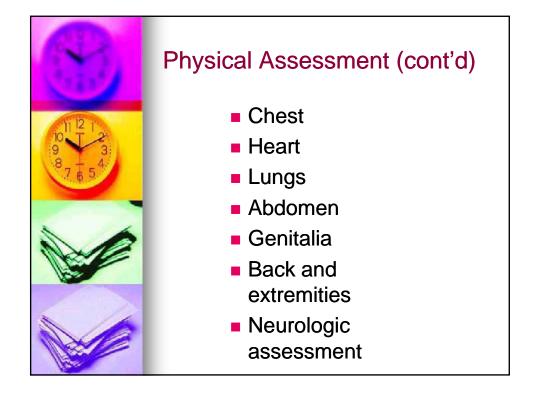
- 1. Count respirations **FIRST** (before disturbing the child)
- 2. Count apical HR SECOND
- 3. Measure BP (if applicable) THIRD
- 4. Measure temperature LAST

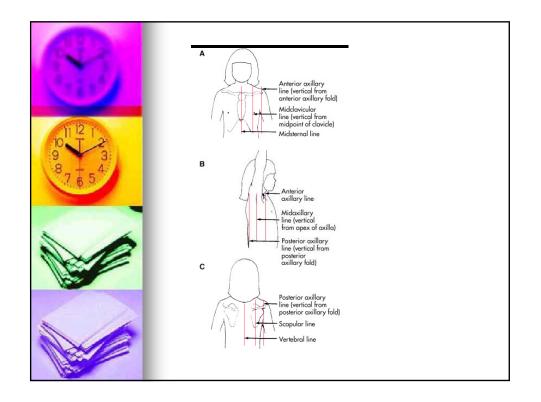


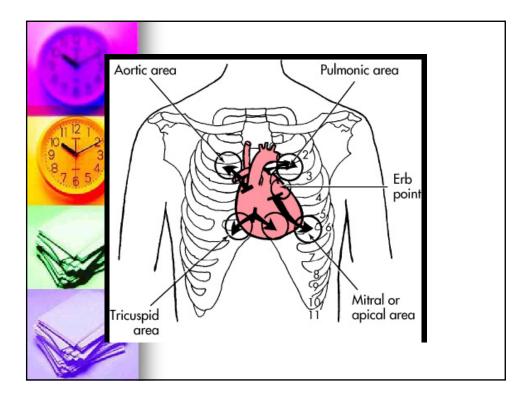


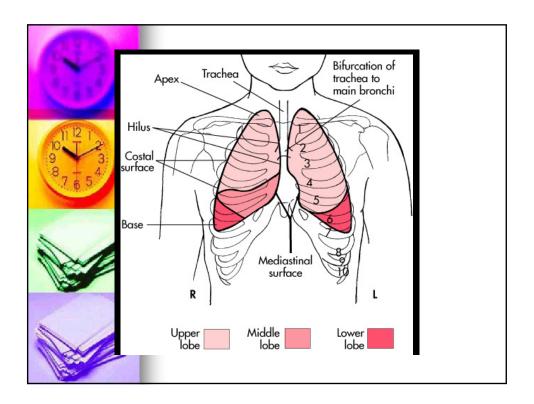


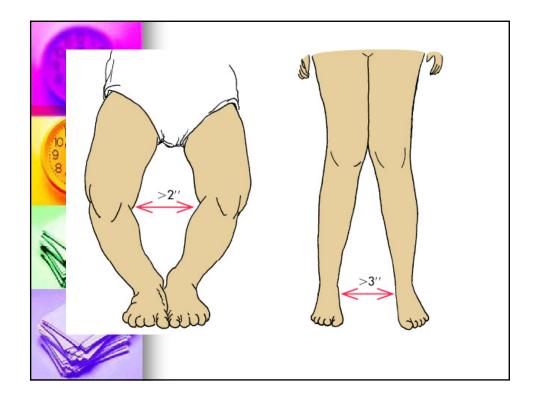


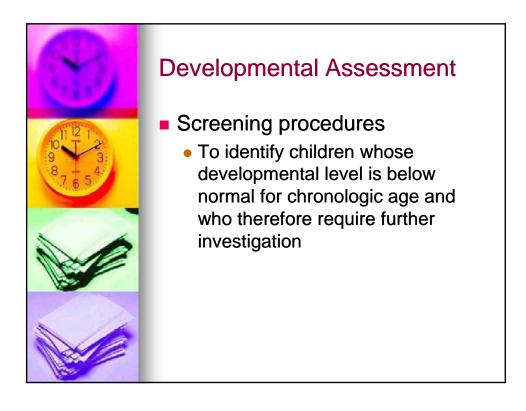


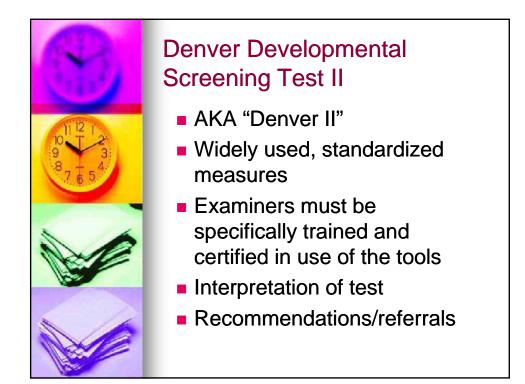








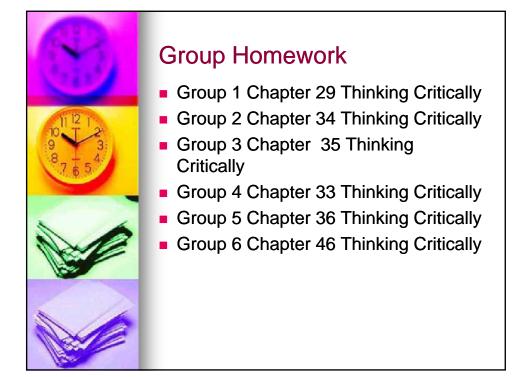


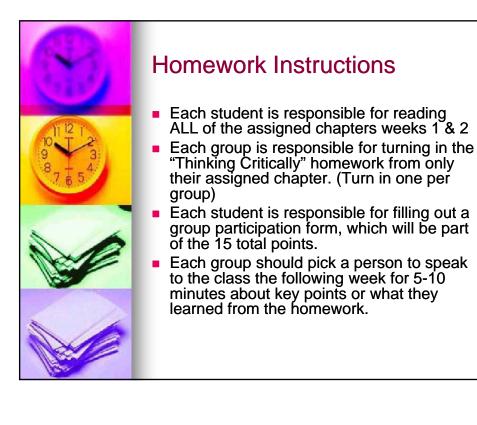


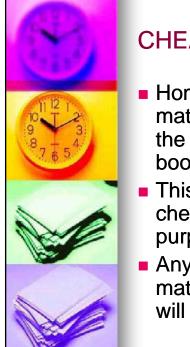


Reference

 Wong, D., Perry, S, Hockenberry, M., Lowdermilk, D, Wilson, D. (2006). Maternal child nursing care. (3rd ed.). St. Louis, M.O.: Mosby Inc.



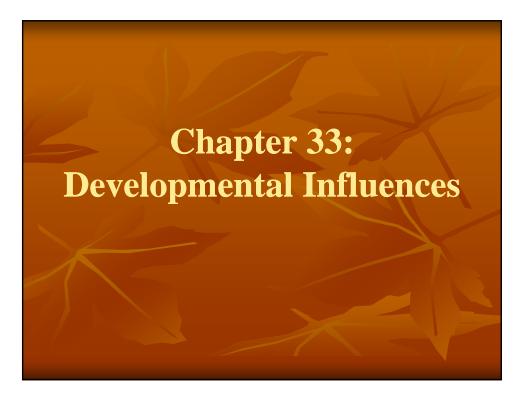




CHEATING

- Homework answers should not match the EXACT wording of the answers in the back of the book.
- This would be plagiarism, cheating, and would defeat the purpose of you learning.
- Any homework found to Exactly match the workbook answers will be given a 0!





Introduction

- A traditional definition of growth is limited to physical maturation
- A more appropriate definition includes *functional* maturation
- Dissect the two sections of growth and development

Definitions

Growth:

 An increase in number and size of cells as they divide and synthesize new proteins; results in increased size and weight of the whole or any of its parts

Percentiles of growth:

 Percentile of growth is statistical representation of 100 children and placement within the 100 members of comparison group

Definitions

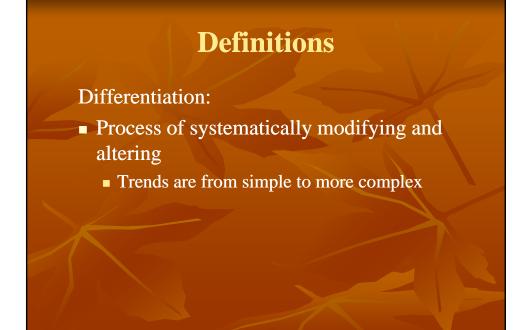
Development:

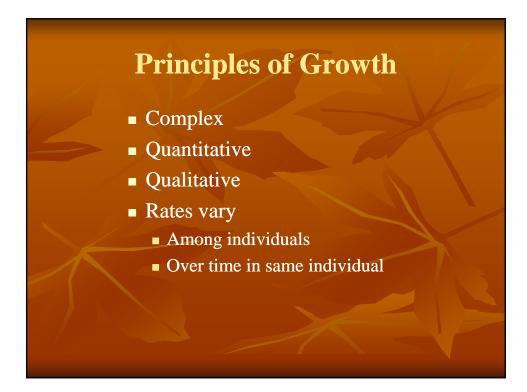
 A gradual change and expansion; advancement from a lower to a more advanced stage of complexity; increased capacity through growth, maturation, and learning

Definitions

Maturation:

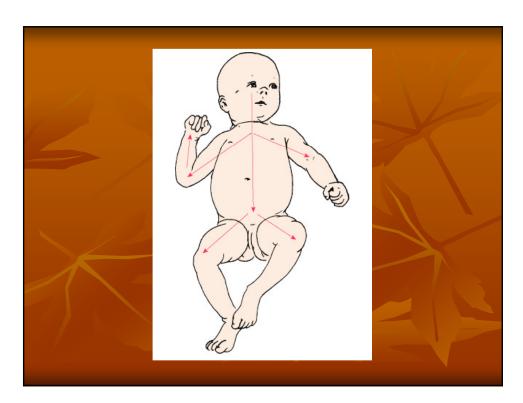
- An increase in competence and adaptability
- A *qualitative* change
- Functioning at a higher level





Principles of Growth (cont'd)

- Growth is continuous and orderly process
- Cephalocaudal: "head to tail"
- Proximodistal: "center to periphery"



Principles of Growth (cont'd)

- Infancy
 - Most rapid
- Preschool to puberty
 - Rate of growth slows
- Post-puberty
 - Decline in rate of growth
 - Until death

Factors Influencing Growth

- Heredity
- Nutrition
- Gender
- Disease
- Environment
 - Hazards
 - Socioeconomic influences
 - Season, climate, and oxygen concentration

Factors Influencing Development

- Heredity and environment
- Gender differences vs. cultural expectations
- Disease
- Prenatal influences
- Socioeconomic status
- Interpersonal relationships
- Stress
- Television and mass media



- Freud—psychosexual
- Erikson—psychosocial
- Piaget—cognitive development

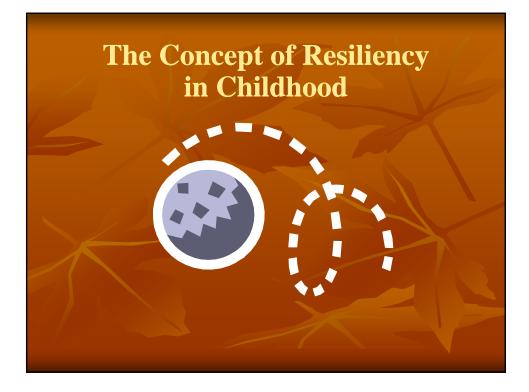
Erik Erikson's Stages of Psychosocial Development

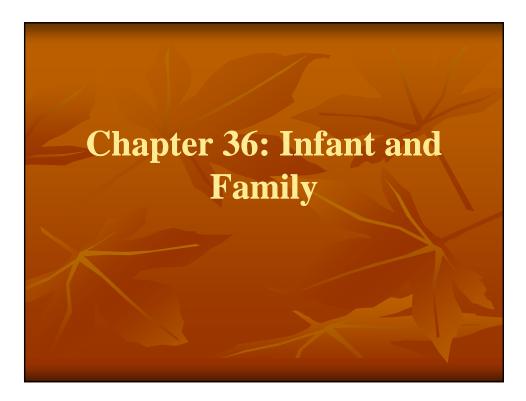
- Trust vs. mistrust (birth to 1 year)
- Autonomy vs. shame and doubt (1 to 3 years)
- Initiative vs. guilt (3 to 6 years)
- Industry vs. inferiority (6 to 12 years)
- Identity vs. role confusion (12 to 18 years)

Developmental Screening

- Purpose: quickly and reliably identify at-risk children for further investigation
- Screening vs. diagnostic tests
- Denver II is most widely used developmental screening tool







Promoting Optimum Growth and Development

- Biologic development
- Proportional changes
 - 5 to 7 ounces weight gain per week
 - Double birth weight by age 6 months
 - Triple birth weight by age 1 year
 - Height increases by 1 inch per month x 6 months
 - Growth in "spurts" rather than gradual pattern

Gross Motor Development

- Head control
- Rolling over—ages 5 to 6 months
- Sit alone—7 months
- Move from prone to sitting position—10 months



Fine Motor Development

- Grasping object—ages 2 to 3 months
- Transfer object between hands—age 7 months
- Pincer grasp age—10 months
- Remove objects from container—11 months
- Build tower of two blocks—12 months



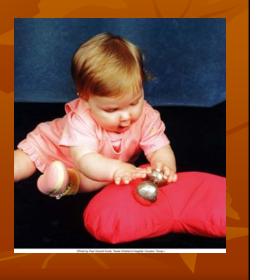
Locomotion

- Cephalocaudal direction of development
- Crawling age—6 to 7 months
- Creeping age—9 months
- Walk with assistance— 11 months
- Walk alone—12 months



Development of Body Image

- Concept of object permanence
- By end of first year, recognize that they are distinct from parents



Language Development

- Crying is first verbal communication
- Vocalizations
- 3 to 5 words with meaning by age 1 year
- <u>http://video.google.com/videoplay?docid=</u> 2890972095248776439

Temperament

- Revised Infant Temperament Questionnaire
- Childrearing practices related to temperament

Promoting Optimum Health during Infancy

- Nutrition—breast milk is first choice only for first 6 months of life
- Introduction of solid foods
 - Introduce foods at intervals of 4 to 7 days to allow for identification of food allergies
- Weaning from breast or bottle

Sleep and Activity

- "Back to Sleep" campaign
- Sleep problems
- Sleeping arrangements
- Concept of "graduated extinction"

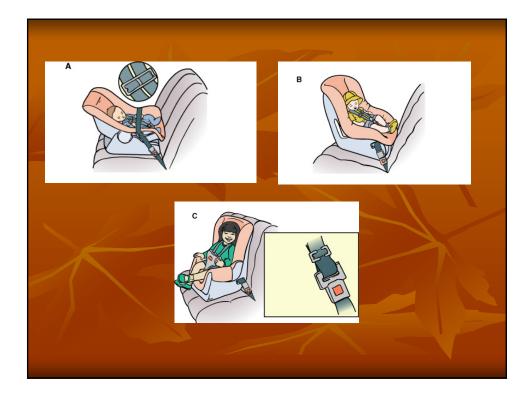
Immunizations

- Recommendations provided by:
 - Advisory Committee on Immunization Practices (ACIP) Centers for Disease Control and Prevention (CDC)
 - Committee on Infectious Diseases of the American Academy of Pediatrics (AAP)

VAERS

- Vaccine Adverse Event Reporting System
 - To report any adverse reactions after administration of any vaccine
- Vaccine Information Statements (VIS)
 - Information statements that must be given to parents before administration of given vaccines
 - Provide updated information for parent/guardian of child being vaccinated







Feeding Difficulties

- Regurgitation and "spitting up"
- Reflux/GERD
- Colic
- Failure to thrive
 - Organic FTT
 - Nonorganic FTT



Disorders of Unknown Etiology

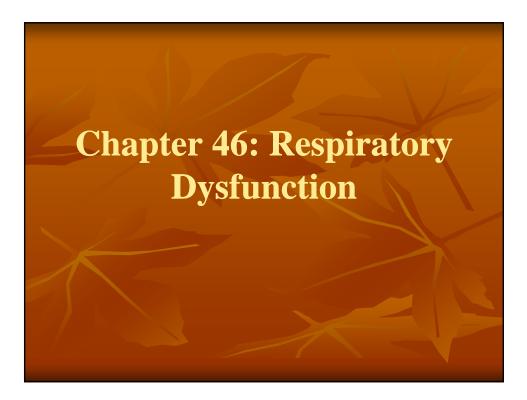
- Sudden infant death syndrome (SIDS)
- Apparent life-threatening events (ALTEs)
- "Back to Sleep" campaign
- Risk factors for SIDS
 - Maternal smoking, poor PNC, low maternal age, prematurity

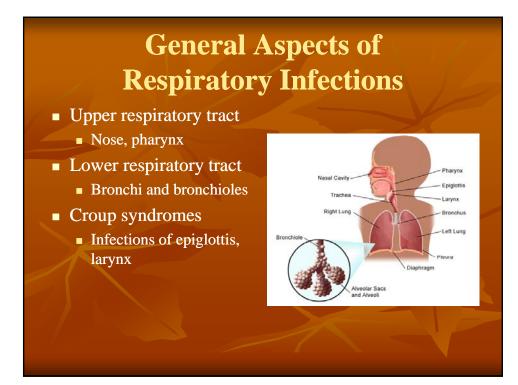
Apnea of Infancy

- Pathologic apnea in infants >37 weeks' gestation
- Clinical presentation of ALTE
- Therapeutic management
 - Theophylline/caffeine
 - Home apnea monitors
 - Family support
 - CPR training

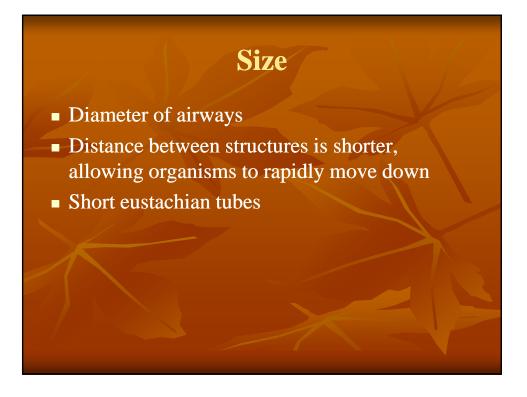














Seasonal Variations

- Most common during winter and spring
- Mycoplasmal infections more common in fall and winter
- Asthmatic bronchitis more frequent in cold weather
- RSV season considered winter and spring

Clinical Manifestations

- Vary with age
- Generalized signs and symptoms and local manifestations differ in young children
 - Fever
 - Anorexia, vomiting, diarrhea, abdominal pain
 - Cough, sore throat, nasal blockage or discharge
 - Respiratory sounds

Nursing Interventions

- Ease respiratory effort
- Fever management
- Promote rest and comfort
- Infection control
- Promote hydration and nutrition
- Family support and teaching



Croup Syndromes

- Characterized by hoarseness, "barking" cough, inspiratory stridor, and varying degrees of respiratory distress
- Croup syndromes affect larynx, trachea, and bronchi
 - Epiglottitis, laryngitis, LTB, tracheitis

Acute LTB

- LTB = laryngotracheobronchitis
- Most common of the croup syndromes
- Generally affects children <5 years</p>
- Organisms responsible
 - RSV, parainfluenza virus, *Mycoplasma* pneumoniae, influenza A and B

Manifestations of LTB

- Inspiratory stridor
- Suprasternal retractions
- Barking or "seal-like" cough
- Increasing respiratory distress and hypoxia
- Can progress to respiratory acidosis, respiratory failure, and death

Therapeutic Management

- Airway management
- Maintain hydration—PO or IV
- High humidity with cool mist
- Nebulizer treatments
 - Epinephrine
 - Steroids

Infections of the Lower Airways

- Considered the "reactive" portion of the lower respiratory tract
- Includes bronchi and bronchioles
- Cartilaginous support not fully developed until adolescence
- Constriction of airways

Bronchiolitis and RSV

- Definitions
- RSV = respiratory syncytial virus
- Pathophysiology
- Diagnostics
- Therapeutic management
- Prevention of RSV—prophylaxis
- Nursing considerations

Pertussis (Whooping Cough)

- Caused by *Bordetella pertussis*
- In U.S. it occurs most often in children who have not been immunized
- Highest incidence in spring and summer
- Highly contagious
- Risk to young infants
- Vaccines
- http://video.google.com/videoplay?docid=57921 99339081256015&q=whooping+cough&total=4 3&start=0&num=10&so=0&type=search&plinde x=0

Foreign Body Aspiration

- Risk among children
- Diagnostic evaluation
- Therapeutic management
- Nursing considerations

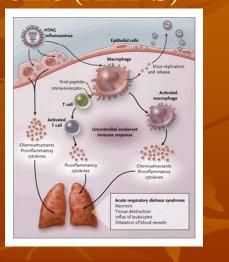


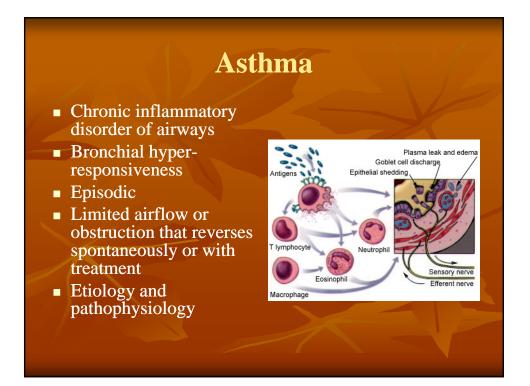
Acute Respiratory Distress Syndrome (ARDS)

- Also referred to as adult RDS
- Characterized as respiratory distress and hypoxia within 72 hours after serious injury or surgery in person with previously normal lungs

Acute Respiratory Distress Syndrome (ARDS)

- Pathophysiology
- Treatment
- Prognosis
- Nursing care





Asthma Severity Classification in Children 5 Years and Older

- Step I: mild, intermittent asthma
- Step II: mild, persistent asthma
- Step III: moderate, persistent asthma
- Step IV: severe, persistent asthma
- Clinical features of each classification



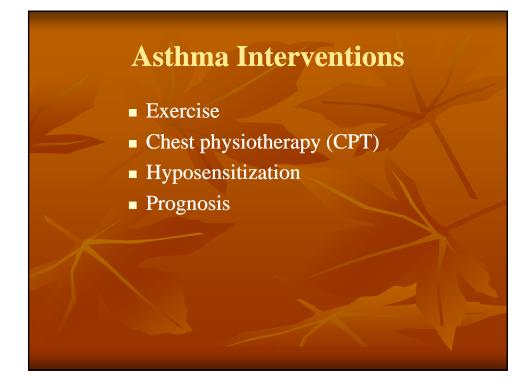
Drug Therapy for Asthma

- LT control meds
- Quick relief meds
- MDI
- Corticosteroids
- Cromolyn sodium
- Albuterol, metaproterenol, terbutaline

Drug Therapy for Asthma

- LT bronchodilators (Serevent)
- Theophylline—monitor serum levels
- Leukotriene modifiers
- Others





Status Asthmaticus

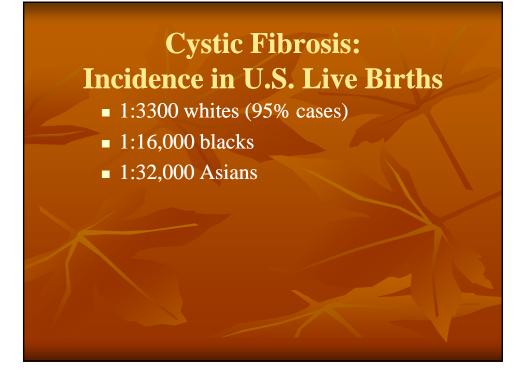
- Respiratory distress continues despite vigorous therapeutic measures
- Emergency treatment—epinephrine 0.01 ml/kg subQ (max dose 0.3 ml)
- Concurrent infection in some cases
- Therapeutic intervention

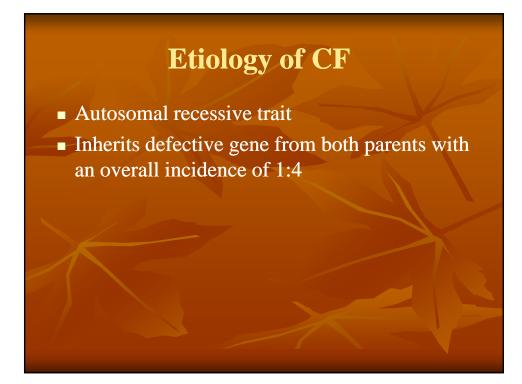
Goals of Asthma Management

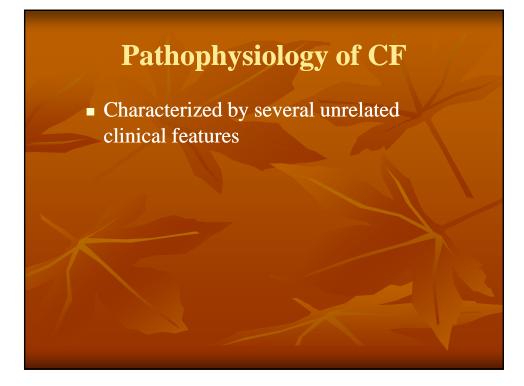
- Avoid exacerbation
- Avoid allergens
- Relieve asthmatic episodes promptly
- Relieve bronchospasm
- Monitor function with peak flow meter
- Self-management of inhalers, devices, and activity regulation

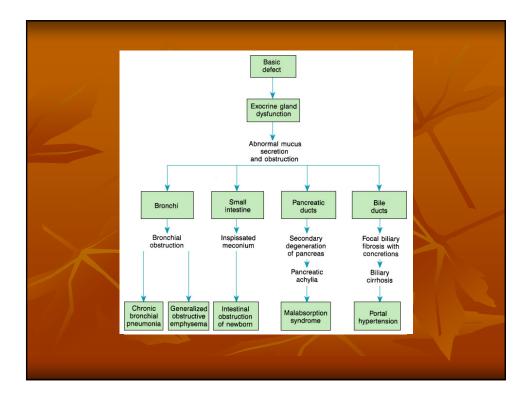
Cystic Fibrosis (CF)

- Exocrine gland dysfunction that
 produces multisystem involvement
- Most common lethal *genetic* illness among white children
- Approximately 3% of U.S. white population are symptom-free carriers



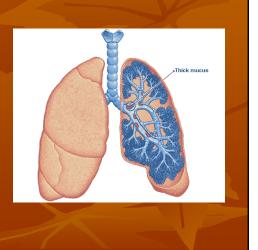






Increased Viscosity of Mucous Gland Secretion

- Results in mechanical obstruction
- Thick inspissated mucoprotein accumulates, dilates, precipitates, coagulates to form concretions in glands and ducts
- Respiratory tract and pancreas are predominantly affected



Increased Sweat Electrolytes

- Basis of the most reliable diagnostic procedure—sweat chloride test
- Sodium and chloride will be 2 to 5 times greater than the controls



Other Factors

- Increased organic/enzymatic constituents of saliva
- Abnormalities of the autonomic nervous system

Respiratory Manifestations

- Present in almost all CF patients but onset/extent is variable
- Stagnation of mucus and bacterial colonization result in destruction of lung tissue
- Tenacious secretions are difficult to expectorate obstruct bronchi/bronchioles



Respiratory Manifestations

- Decreased O₂/CO₂ exchange
- Results in hypoxia, hypercapnea, acidosis
- Compression of pulmonary blood vessels and progressive lung dysfunction lead to pulmonary hypertension, cor pulmonale, respiratory failure, and death



Respiratory Progression

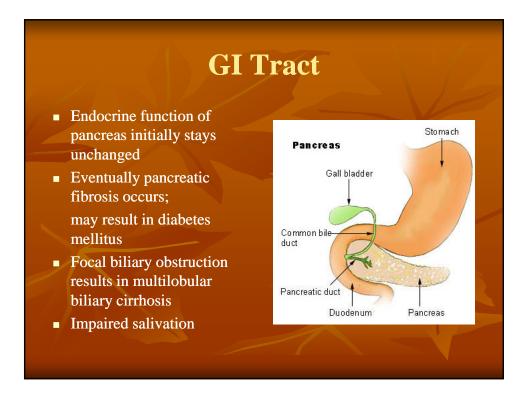
- Gradual progression follows chronic infection
- Bronchial epithelium is destroyed
- Infection spreads to peribronchial tissues, weakening bronchial walls
- Peribronchial fibrosis
- Decreased O₂/CO₂ exchange

Further Respiratory Progression

- Chronic hypoxemia causes
- contraction/hypertrophy of muscle fibers in pulmonary arteries/arterioles
- Pulmonary hypertension
- Cor pulmonale
- Pneumothorax
- Hemoptysis

GI Tract

- Thick secretions block ducts—cystic dilation—degeneration—diffuse fibrosis
- Prevents pancreatic enzymes from reaching duodenum
- Impaired digestion/absorption of fat steatorrhea
- Impaired digestion/absorption of protein azotorrhea



Clinical Manifestations of GI Tract

- Pancreatic enzyme deficiency
- Progressive COPD associated with infection
- Sweat gland dysfunction
- Failure to thrive
- Increased weight loss despite increased appetite
- Gradual respiratory deterioration



Presentation

- Meconium ileus
- Distal intestinal obstruction syndrome
- Excretion of undigested food in stool increased bulk, frothy, and foul
- Wasting of tissues
- Prolapse of the rectum



Presentation

- Delayed puberty in females
- Sterility in males
- Parents report children taste "salty"
- Dehydration
- Hyponatremic/hypochloremic alkalosis
- Hypoalbuminemia

Diagnostic Evaluation

- Quantitative sweat chloride test
- Chest x-ray
- PFT
- Stool fat and/or enzyme analysis
- Barium enema

Goals

- Prevent/minimize pulmonary complications
- Adequate nutrition for growth
- Assist in adapting to chronic illness

Respiratory Management

- CPT
- Bronchodilator medication
- Forced expiration
- Aggressive treatment of pulmonary infections
- Home IV antibiotic therapy
- Aerosolized antibiotics

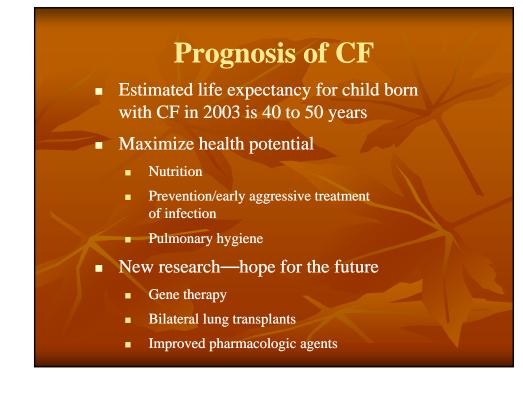


Respiratory Management (cont'd)

- Pneumothorax
- Hemoptysis
- Nasal polyps
- Steroid use/nonsteroidal antiinflammatory
- Transplantation

GI Management

- Replacement of pancreatic enzymes
- High-protein, high-calorie diet as much as 150% RDA
- Intestinal obstruction
- Reduction of rectal prolapse
- Salt supplementation



Family Support

- Coping with emotional needs of child and family
- Child requires treatments multiple times a day
- Frequent hospitalization
- Implications of genetic transmission of disease



:- Written by Mike, M/24, Tempe, Arizona Saturday, January 21, 2006 Why People Have Cystic Fibrosis... Current mood: thoughtful Ok, alot of people ask me why people have CF or how you get CF so i am just going to post this to let everyone know. Some people are born so cool and awesome in everyway possible that in order to even it out and make it fair for everyone else in the world these people are forced to deal with this disease. It comes from the same gene that makes us all so fucking cool. The gene used to be normal but when the body realizes how special these individuals are and how much they would rule the world and everyone in it, the gene is altered so that these special few dont have such an advantage over the "normal people" of this world. While it is still obvious that these people are so extraordinary they are kept in check by the daily routine of Nebulizers, Flutter Valves, Vest Therapy, Pills, and whatever else is required.

Patient's Description of CF (cont)

The average life expectancy at this point is about 30-35 which explains why the age to become President of the United States is 35 and the only reason they made that the minimum age is because if the age was any younger everyone of the U.S. Presidents would of been individuals with CF because everyone admires them so much and realizes they are so much better than anyone else in the world. Another major reason people have CF is not only cause they are so cool and awesome, but because they are also so hot and sexy.

Patient's Description of CF (cont)

Again since it wasnt fair to the general public that these people be so damn hot and sexy they were given CF which makes them cough up green chunks and other things which arent usually related to sexiness in order to try and tone down their individual sexiness, however this does not seem to work all that well because everyone knows that those with CF are still the hottest people around. Ok i hope this answers many of your questions out there, if not then either you will never understand, or you are just jealous and in denial about yourself not being able to be so cool and sexy enough to have CF. I feel sorry for all you "normal people" out there... I just dont know how you deal with it sometimes. :-)

Terms to Know

- WOB = work of breathing
- Apnea = absence of breathing
- Respiratory insufficiency
- Respiratory arrest = cessation of respiration



Reference

 Wong, D., Perry, S, Hockenberry, M., Lowdermilk, D, Wilson, D. (2006). Maternal child nursing care. (3rd ed.). St. Louis, M.O.: Mosby Inc.

Homework for Week 3

- Groups 1 & 2: Chapter 31 Thinking Critically
- Groups 3 & 4: Chapter 44 Thinking Critically
- Groups 5 & 6: Chapter 47 Thinking Critically

Homework Instructions

- Each student is responsible for reading ALL of the assigned chapters for week 3
- Each group is responsible for turning in the "Thinking Critically" homework from only their assigned chapter. (Turn in one per group)
- Each student is responsible for filling out a group participation form, which will be part of the 15 total points.
- Each group should pick a person to speak to the class the following week for 5-10 minutes about key points or what they learned from the homework.

CHEATING

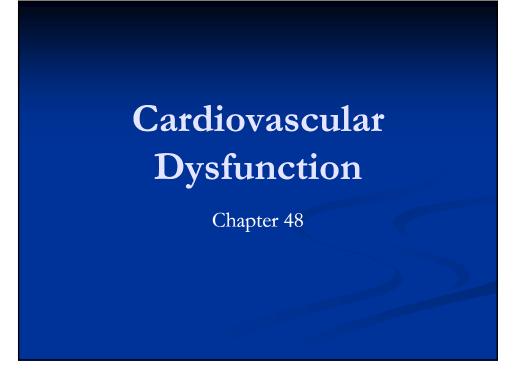
- Homework answers should not match the EXACT wording of the answers in the back of the book.
- This would be plagiarism, cheating, and would defeat the purpose of you learning.
- Any homework found to Exactly match the workbook answers will be given a 0!

Welcome Back to NUR 245

Lecture for October 15, 2007 Tiffany Jasperson RN, BSN MSN Candidate, SPU

Objectives

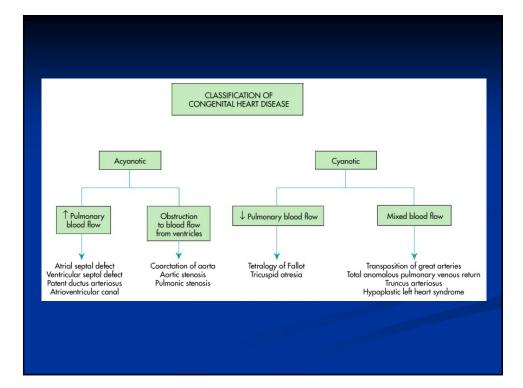
- Identify signs and symptoms of common cardiovascular and gastrointestinal pediatric diseases and disorders
- Describe the pathophysiology of signs and symptoms of common cardiovascular and gastrointestinal pediatric diseases and disorders
- Demonstrate critical thinking in planning the care of patients with common cardiovascular and gastrointestinal pediatric diseases and disorders

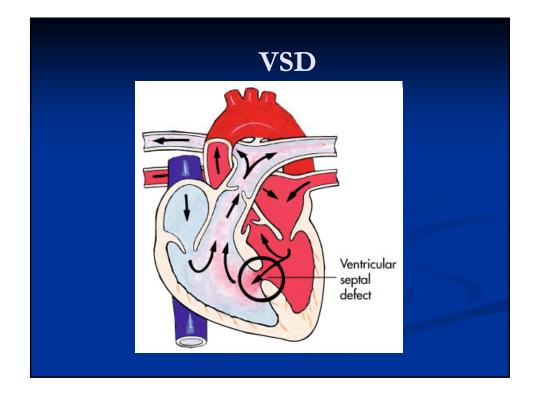


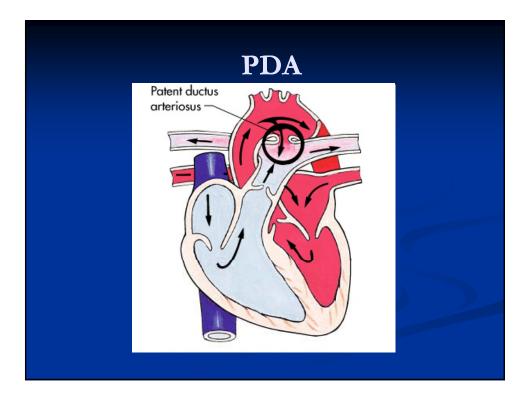


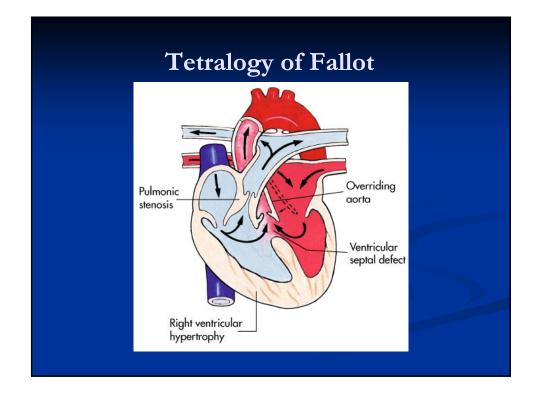
Pediatric Indicators of Cardiac Dysfunction

- Poor feeding
- Tachypnea/ tachycardia
- Failure to thrive/poor weight gain/activity intolerance
- Developmental delays
- + Prenatal history
- Family history of cardiac disease





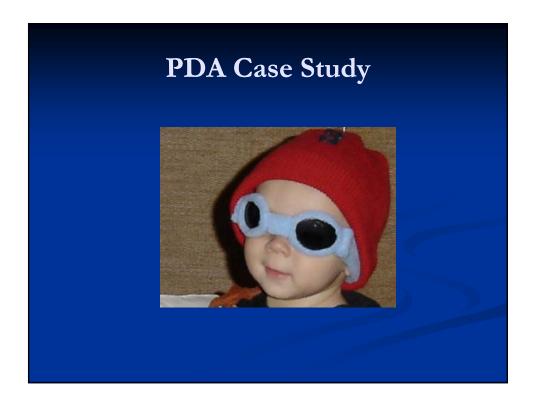






Surgical Interventions

- Open heart
- Closed heart procedures
- Staged procedures
- Prepare child and family for procedures



Gastrointestinal Dysfunction

Chapter 47

Clinical Manifestations of GI Dysfunction

- Failure to thrive
- Spitting up/regurgitation
- Nausea, vomiting, diarrhea, constipation
- Abdominal pain, distention, GI bleeding
- Jaundice
- Dysphagia
- Hypoactive, hyperactive, or absent bowel sounds

Daily Maintenance Fluid Requirements

- Calculate child's weight in kg
 - Allow 100 ml/kg for first 10 kg body wt
 - Allow 50 ml/kg for second 10 kg body wt
 - Allow 20 ml/kg for remaining body wt

Example #1: Daily Fluid Calculation

- Child weighs 32 kg
- 100 x 10 for 1st 10 kg of body weight = 1000
- = 50 x 10 for 2nd 10 kg of body weight = 500
- $20 \ge 12$ for remaining body weight = 240
- 1000 + 500 + 240 = 1740 ml/24 hr

Example 2: Daily Fluid Calculation

- Child weighs 8.5 kg
- 100 x 8.5 for 1st 10 kg of body weight = 850
- No further calculations

850 ml/24 hr

Example 3: Daily Fluid Calculation

- Child weighs 14 kg
- 100 x 10 for 1st 10 kg of body weight = 1000
- $50 \ge 4$ for 2nd 10 kg of body weight = 200
- No further calculations
- 1000 + 200 = 1200 ml/24 hr

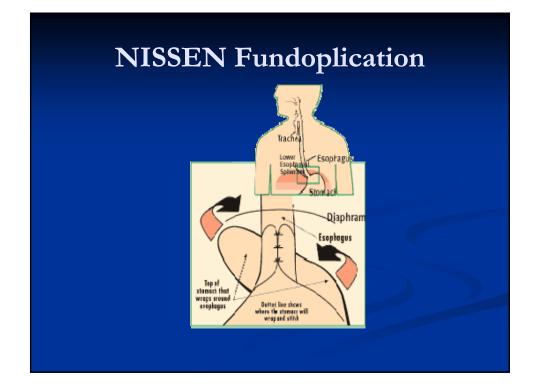
Gastroesophageal Reflux (GER)

- Defined as transfer of gastric contents into the esophagus
- Occurs in everyone
- Frequency and persistency may make it abnormal
- May occur without GERD
- GERD may occur without regurgitation

Gastroesophageal Reflux (GER)

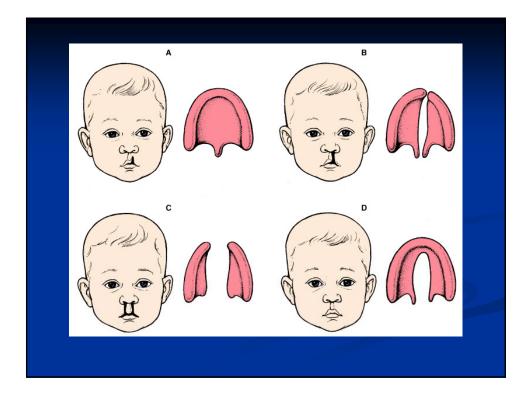
- Diagnostics
 - H&P
 - Upper GI
 - pH study
- Therapeutic management
 - Depends on severity
 - Thickened feeds to surgery

- Nursing considerations
 - Identify symptoms
 - Home care
 - Preop/postop care



Cleft Lip and/or Cleft Palate

- Facial malformations that occur during embryonic development
- May appear separately or together
- Etiology and pathophysiology
 - Presence of teratogens
 - Part of a cluster of congenital anomalies
 - Failure of maxillary and premaxillary processes to come together
- Diagnostic evaluation
 - Oral exam
 - Fetal ultrasound



Surgical Correction of Cleft Lip

- Closure of lip defect precedes correction of the palate
- Z-plasty to minimize retraction of scar
- Protect suture line with Logan bow or other methods

Surgical Correction of Cleft Palate

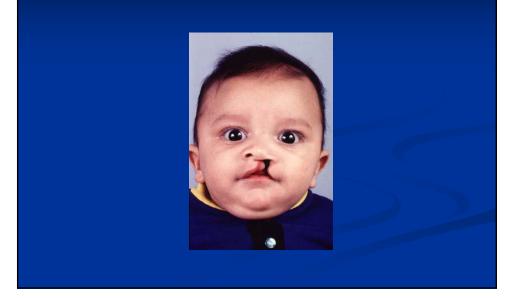
- Typically 12 to 18 months of age
- Effect on speech development
- Prognosis
- Nursing considerations
 - Preop/postop
 - Feeding
 - Family support/teaching

Cleft Lip and Palate Feeding

- Issues
- Techniques and interventions
- Special feeding equipment
- Breastfeeding issues



Cleft Lip/Cleft Palate Case Study



References

 Columbia University Medical Center, Department of Surgery. (2007). Nissen fundoplication for GERD. Available at

http://www.columbiasurgery.org/innovations/index.ht ml

- Nova. (1997). Map of the human heart. Available at http://www.pbs.org/wgbh/nova/heart/heartmap.html
- Wong, D., Perry, S, Hockenberry, M., Lowdermilk, D, Wilson, D. (2006). Maternal child nursing care. (3rd ed.). St. Louis, M.O.: Mosby Inc.

You're Halfway Done!

Tiffany Jasperson RN, BSN MSN Candidate, SPU NUR 245, Oct. 22, 2007

Social Cultural and Religious Influences

Chapter 32

Culture

- A pattern of assumptions, beliefs, and practices that unconsciously frames or guides the outlook and decisions of a group of people
- Differs from race and ethnicity



Socialization

The process by which children acquire the beliefs, values, and behaviors of a given society in order to function within that group



Social Roles

- Culturally prescribed patterns of behavior for people in a variety of social positions
- Social group consists of a system of roles carried out in primary and secondary groups

Primary Group

- Intimate, continued, face-to-face contact
- Mutual support of members
- Ability to order or constrain behavior
- Examples: family and peer groups

Secondary Group

- Groups have limited, intermittent contact
- Generally less concern for members' behavior
- Offer little support or pressure to conform
- Example: professional associations

Guilt and Shame Orientation

- Culture uses these techniques to control social behavior
- Internalize norms and expectations of others
- Self-regulated people punish themselves
- Lacking in some cultural groups
- Trend appears to be away from guilt orientation

Subcultural Influences

- **D** Ethnicity
- Social class/occupation
- Poverty
- Homelessness
- Migrant families
- □ Affluence



Biculture

- Some children are exposed to two or more cultures
- May occur with parents from different cultures



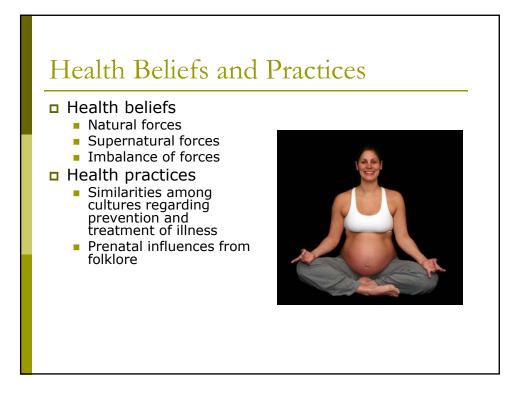
Child and Family in North America

- Minority group membership
- Cultural shock



Cultural and Religious Influences on Health Care

- Susceptibility to health problems
- Hereditary factors
- Socioeconomic factors
- Customs and folkways
- Food customs



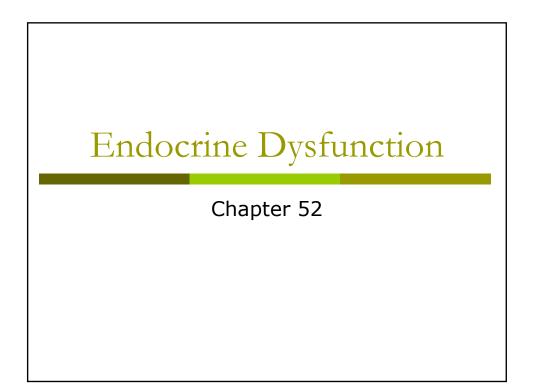
Religious Beliefs

- Religion
- Spirituality



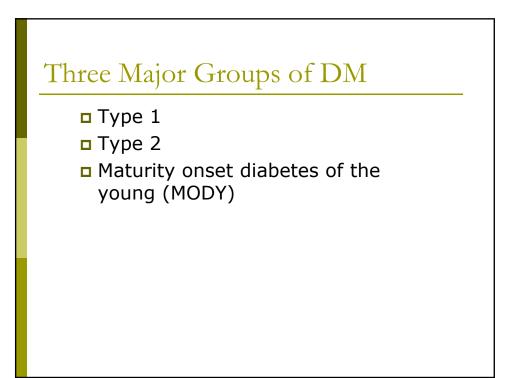
Importance of Culture and Religion to Nurses

- Need to raise cultural competence of nursing practice
- Being a part of the "nursing culture"
- Need to be aware of own cultural values and spiritual beliefs





- Characterized by a total or partial deficiency of the hormone insulin
- The most common endocrine disorder of childhood
- Peak incidence in early adolescence



Type 1 Diabetes

- Characterized by destruction of beta cells, usually leading to absolute insulin deficiency. Typically, onset in childhood and adolescence, but can occur at any age
- Most DM of childhood is type 1

Type 2 Diabetes

- Arises because of insulin resistance
- Onset usually after age 40
- Native American, Hispanic, and African-American children are at increased risk of type 2 DM
- Affected people may require insulin injections

MODY

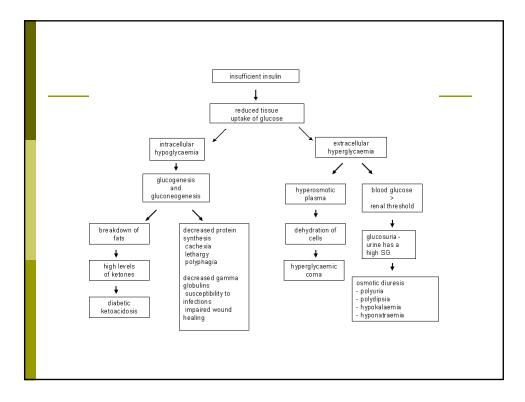
- Transmitted as autosomal dominant disorder with formation of structurally abnormal insulin with decreased biologic activity
- Onset is generally before age 25

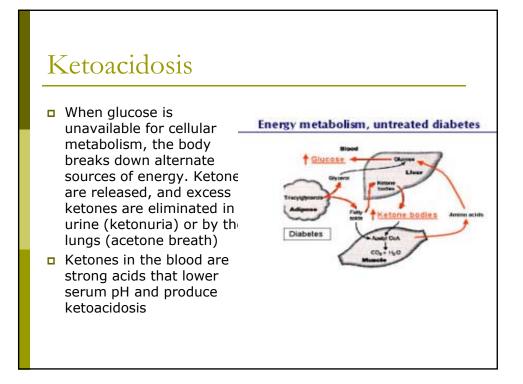
Etiology

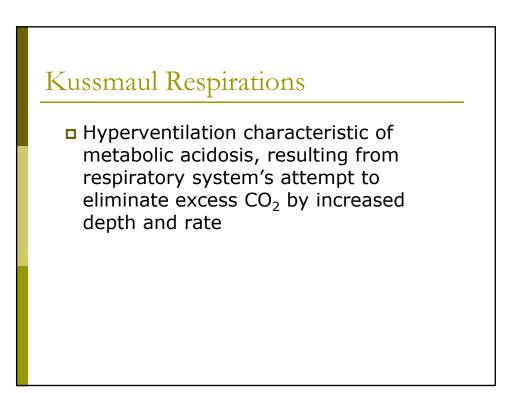
- Type 1 DM believed to be autoimmune disease arising when a person with a genetic predisposition is exposed to a precipitating event such as viral infection
- Heredity is prominent factor in etiology



- With a deficiency of insulin, glucose is unable to enter the cell, and remains in blood, causing hyperglycemia
- When serum glucose exceeds renal threshold, glucose spills into urine (glycosuria)
- Cells break down protein for conversion to glucose by the liver (glucogenesis)

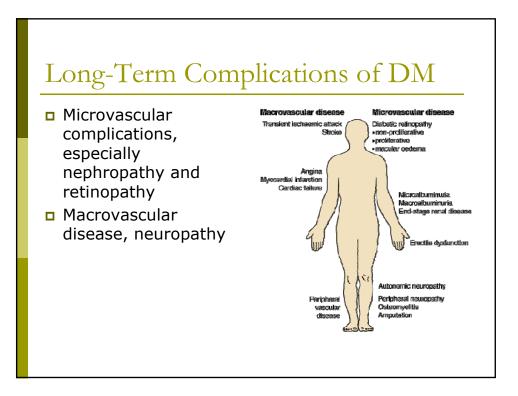


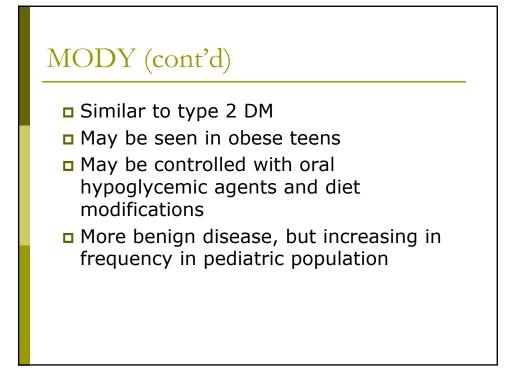




Diabetic Ketoacidosis: DKA

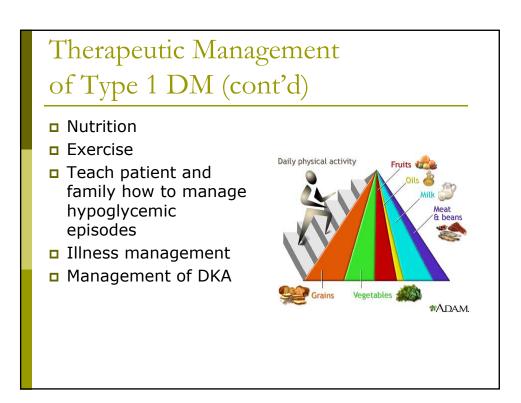
- Pediatric emergency
- Results from progressive deterioration with dehydration, electrolyte imbalance, acidosis, coma; may cause death

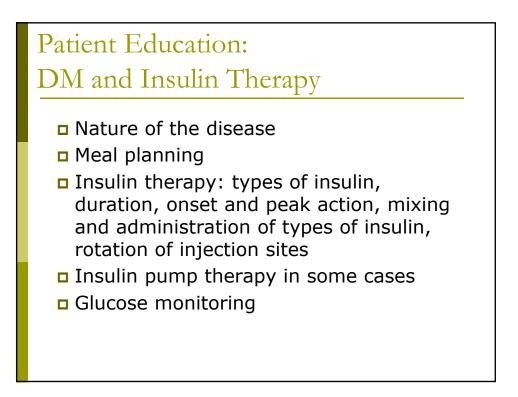


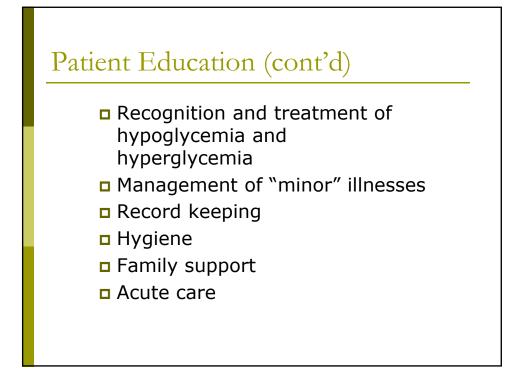


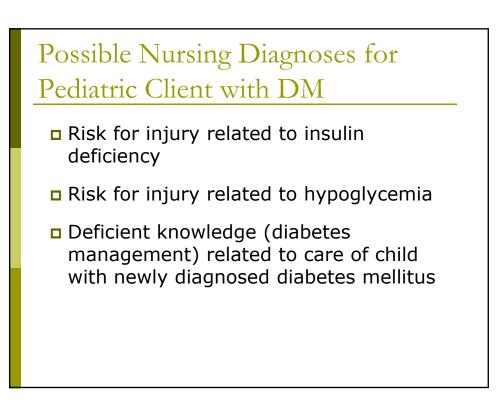


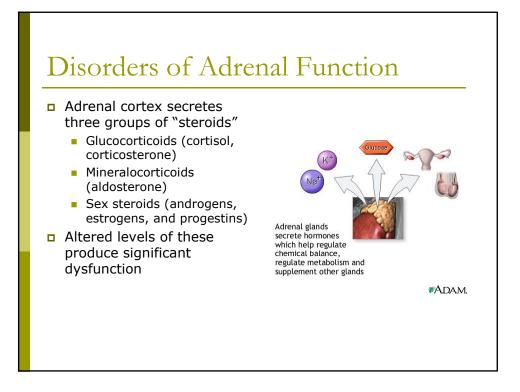
- Insulin therapy
- Glucose monitoring: goal range 80-120 mg/dl
- Lab measurement of hemoglobin A₁
- Urine testing for ketones
 - Not routinely used *except*:
 - Helpful to test q3h during illness and whenever glucose is ≥240 mg/dl when illness not present

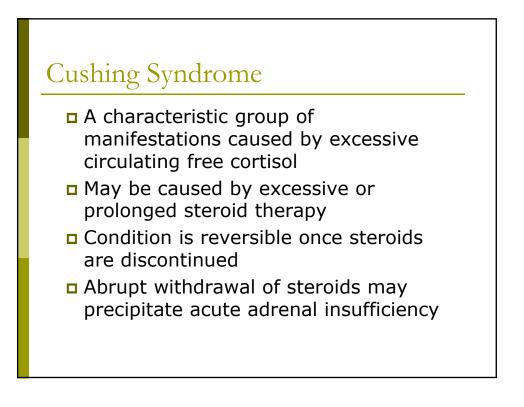








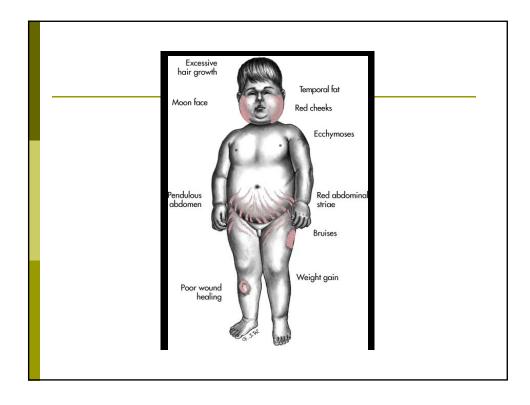


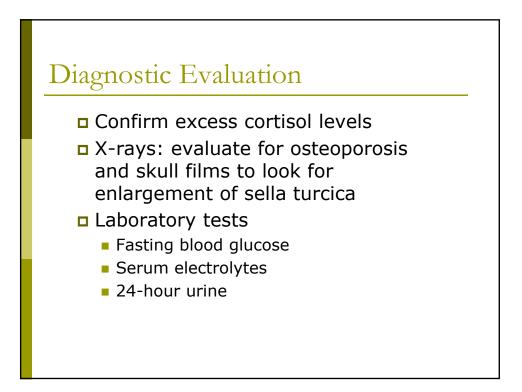




- Pituitary: excess ACTH
- Adrenal: hypersecretion of glucocorticoids
- Ectopic: extrapituitary neoplasm
- Iatrogenic: administration of excessive steroids
- Food dependent: inappropriate adrenal response to secretion of polypeptide







Cushing Syndrome

Therapeutic management

- Surgery
- Replacement of growth hormone, ADH, TH, gonadotropins, and steroids
- Nursing considerations

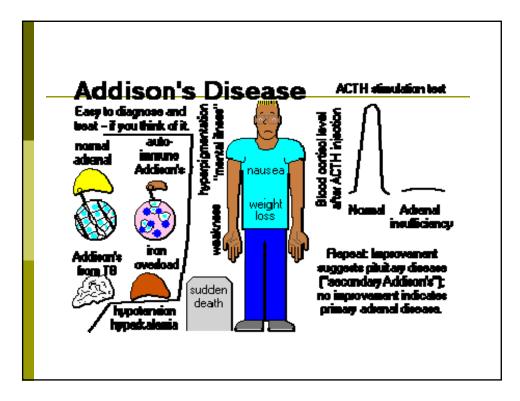
Adrenocortical Insufficiency

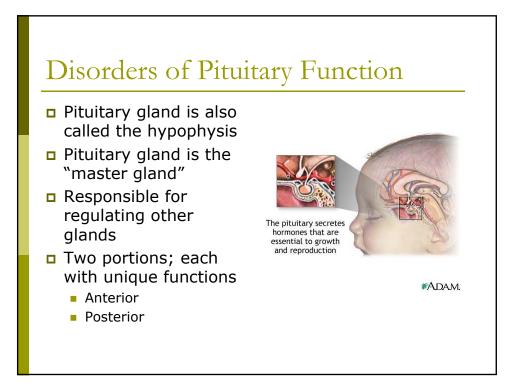
Acute Adrenocortical Insufficiency

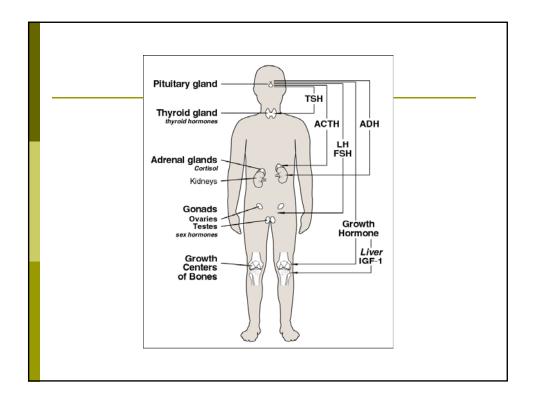
- Rare disorder
- Can be caused by hemorrhage into gland from trauma
 - Prolonged difficult labor
 - Infections
 - Congenital adrenogenital hyperplasia

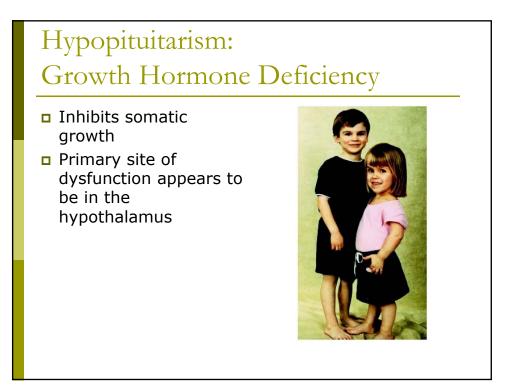
Chronic Adrenocortical Insufficiency: Addison Disease

- Rare in children
- When it occurs, usually result of neoplasms or lesion of adrenal glands or idiopathic cause
- Symptoms appear gradually after 90% adrenal tissue is nonfunctional





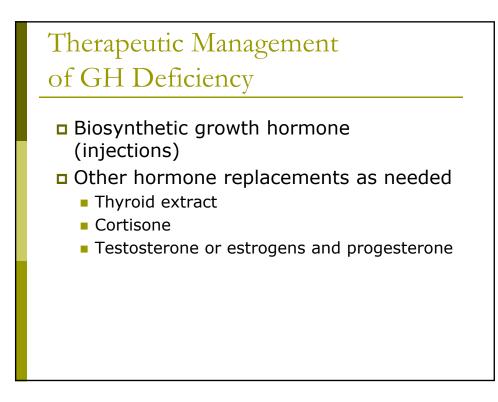




Diagnostic Evaluation

of GH Deficiency

- Family history
- Growth patterns and health history
- Definitive diagnosis basis of radioimmunoassay of plasma GH levels
- Hand x-rays to evaluate growth potential vs. ossification
- Endocrine studies to detect deficiencies



Prognosis

- GH replacement successful in 80% of affected children
- Growth rate of 3.5 to 4 cm/year before treatment and increase to 8 to 9 cm/year after treatment
- Response varies based on age, length of treatment, frequency of doses, dosage, weight, and GH receptor amount

Pituitary Hyperfunction

- Excess GH before closure of epiphyseal shafts results in overgrowth of long bones
- Reach heights of 8 feet or more
- Vertical growth plus increased muscle
- Weight generally in proportion to height



Pituitary Hyperfunction: Acromegaly

- Excess GH after epiphyseal closure is called acromegaly
- Typical facial features



Diagnostic Evaluations

- Radiologic studies
- Endocrine studies



Therapeutic Management

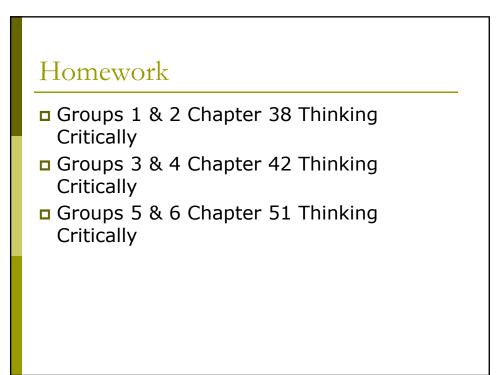
- Surgical treatment to remove tumor
- Radiation and radioactive implants
- Hormone replacement therapy after surgery in some cases

Nursing Considerations

- Early identification of children with excessive growth rates
- Early treatment for improved outcomes
- Emotional support
- Body image concerns

References

- Kyle, T. (2008). Essentials of pediatric nursing. Philadelphia: Lippincott Williams & Wilkins.
- Wong, D., Perry, S, Hockenberry, M., Lowdermilk, D, Wilson, D. (2006).
 Maternal child nursing care. (3rd ed.). St. Louis, M.O.: Mosby Inc.



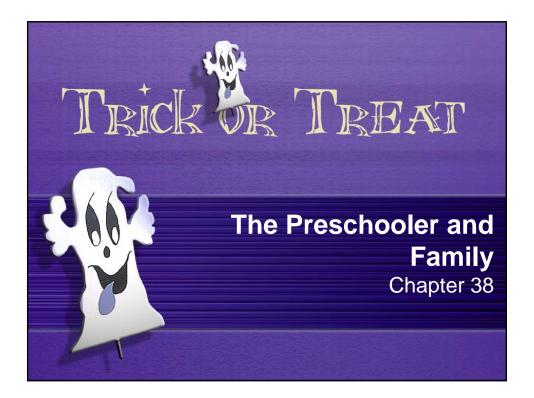
Homework Instructions

- Each student is responsible for reading ALL of the assigned chapters for week 3
- Each group is responsible for turning in the "Thinking Critically" homework from only their assigned chapter. (Turn in one per group)
- Each student is responsible for filling out a group participation form, which will be part of the 15 total points.
- Each group should pick a person to speak to the class the following week for 5-10 minutes about key points or what they learned from the homework.

CHEATING

- Homework answers should not match the EXACT wording of the answers in the back of the book.
- This would be plagiarism, cheating, and would defeat the purpose of you learning.
- Any homework found to Exactly match the workbook answers will be given a 0!

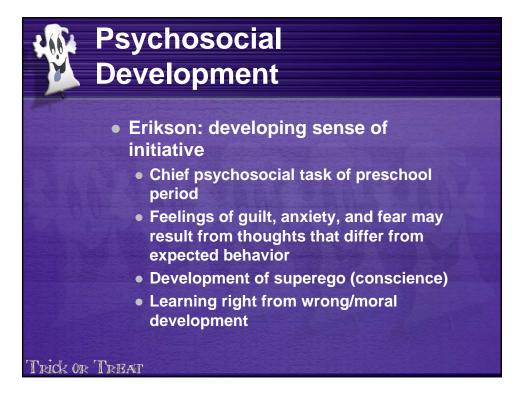




Promoting Optimum Growth and Development

- The preschool period—ages 3 to 5 years
- Preparation for most significant lifestyle change: going to school
- Experience brief and prolonged separation
- Use language for mental symbolization
- Increased attention span and memory

Trick or Treat

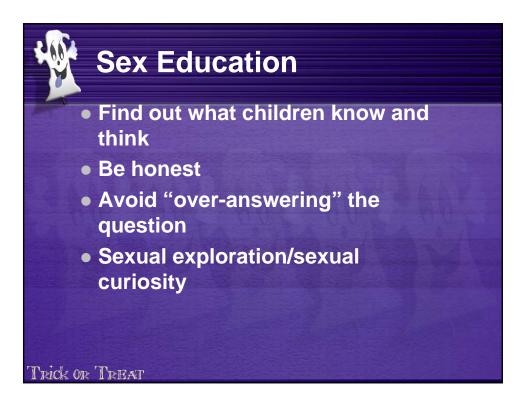




Coping with Concerns Related to Normal Growth and Development

- Preschool and kindergarten
 - Developmental screening tool to assess readiness for school
 - Importance of infection control in school setting
 - Introduction of child to school

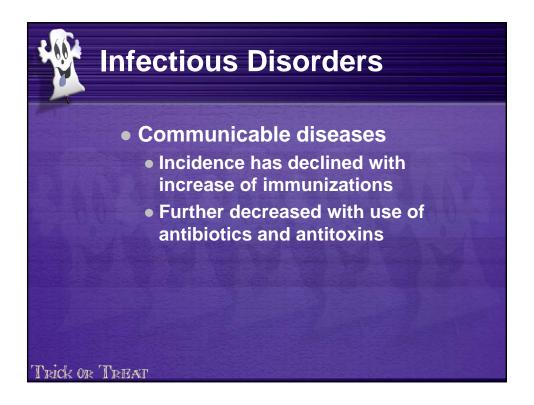
Trick OR TREAT





- 12 hours sleep per night, infrequent naps
- Free play encouraged
- Emphasis on fun and safety
- Nightmares
- Sleep terrors
- Encourage consistent bedtime routine

Trick OR TREAT



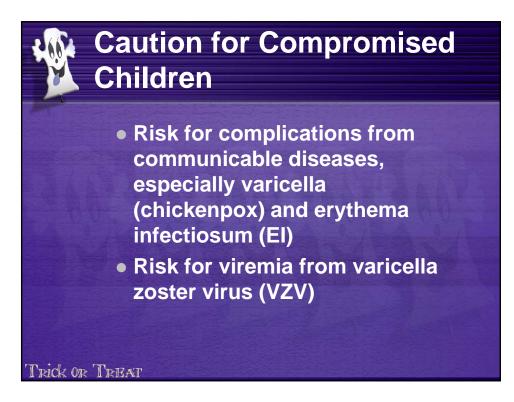


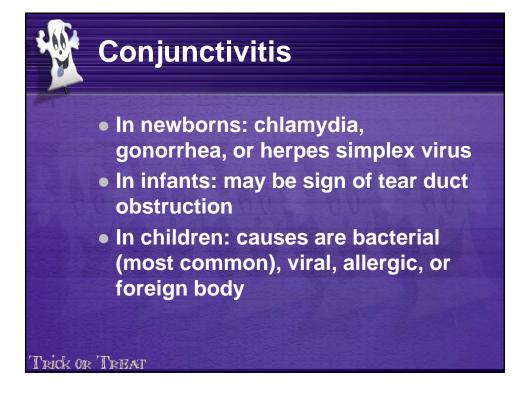


Caution for Compromised Children

- Children with
 immunodeficiency
 - Receiving steroid therapy
 - Other immunosuppressive therapies
 - Generalized malignancies
 - Immunologic disorder

Trick or Treat

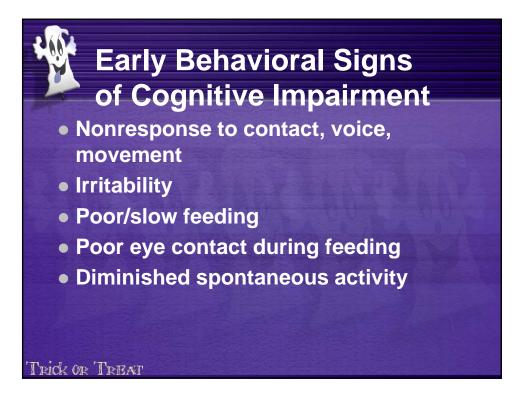


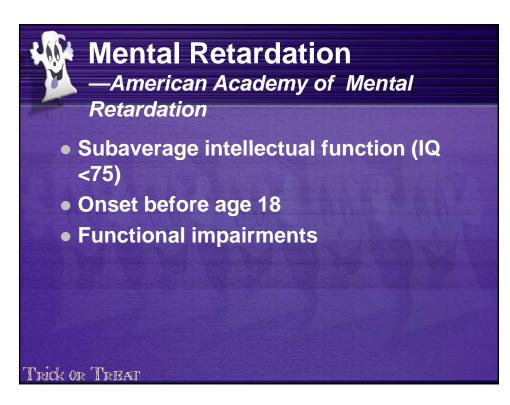


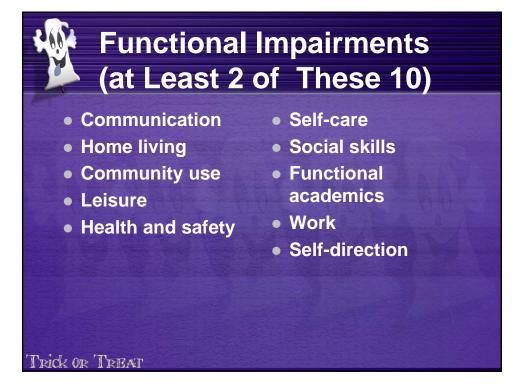


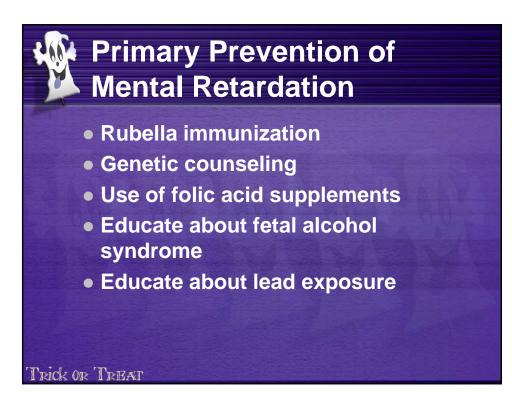


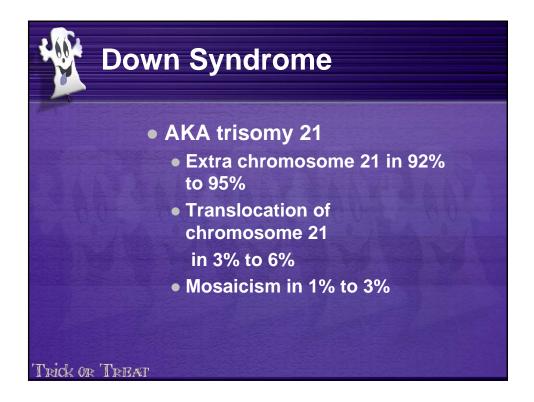


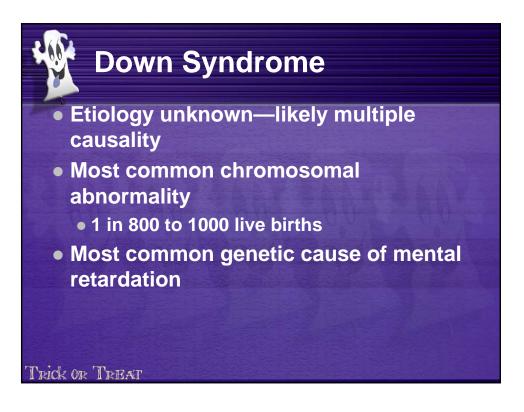


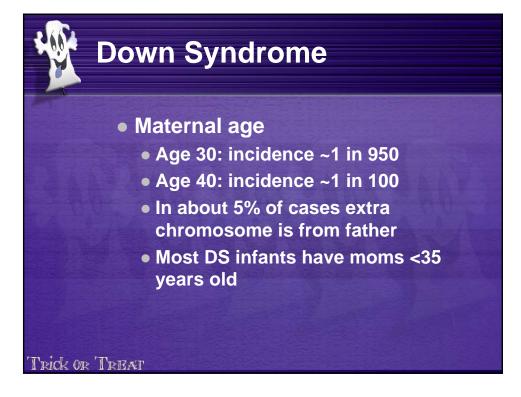




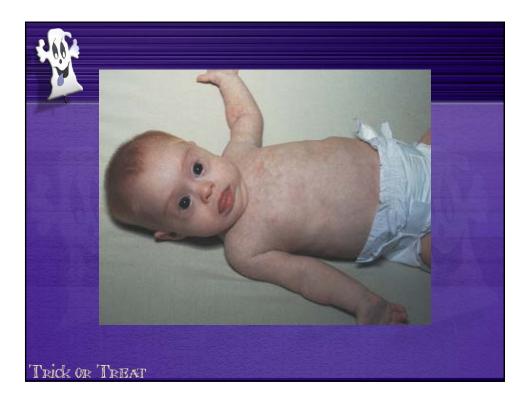


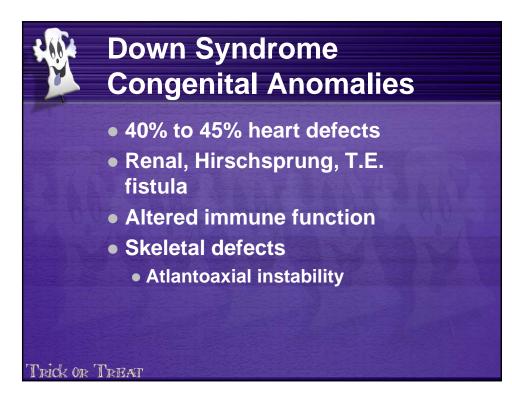






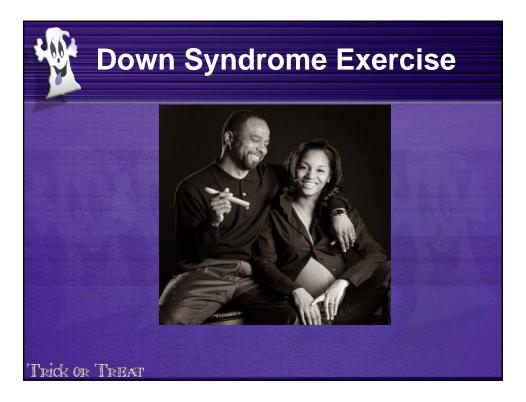


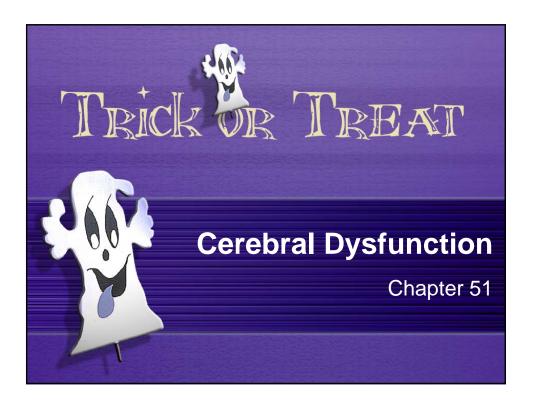


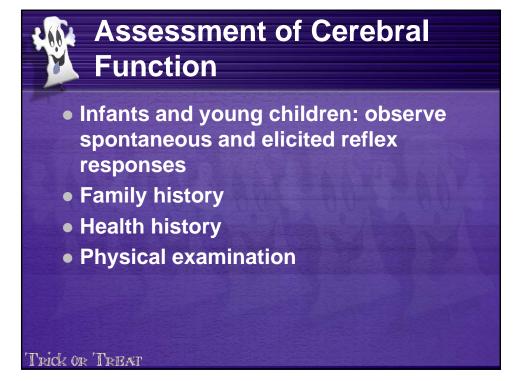






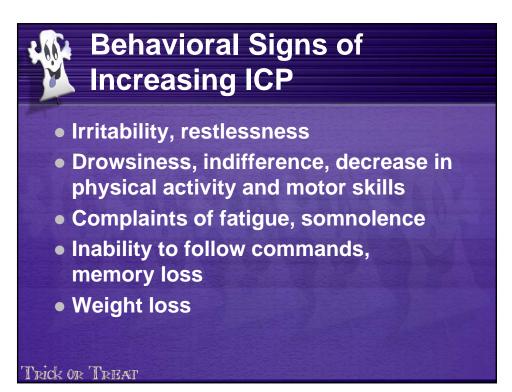








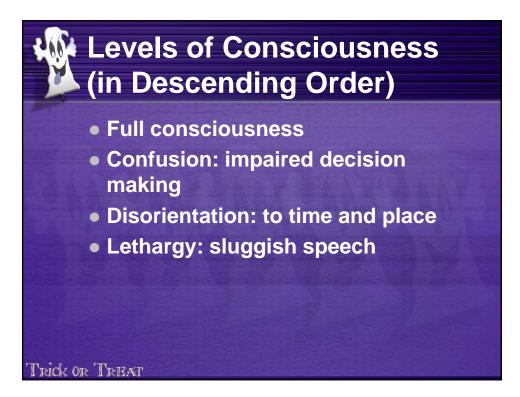


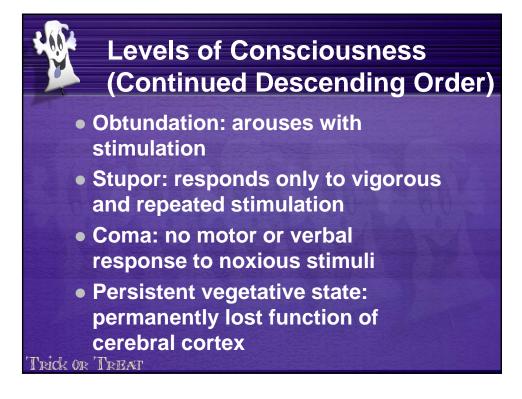


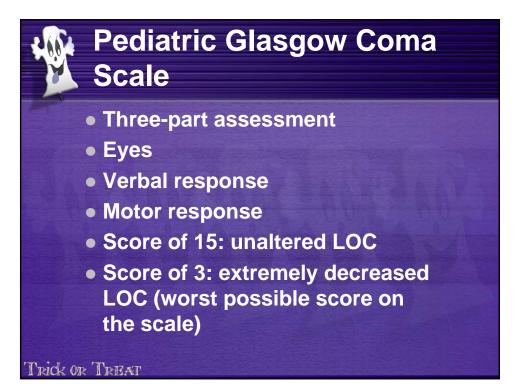


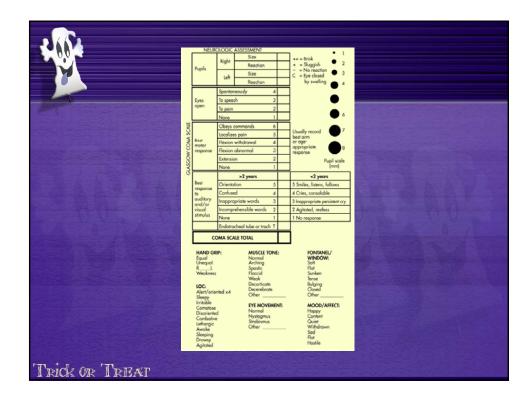
- Decreased LOC
- Decreased motor response to command
- Decreased sensory response to painful stimuli
- Alterations in pupil size and reactivity
- Papilledema
- Decerebrate or decorticate posturing
- Cheyne-Stokes respirations

Trick or Treat

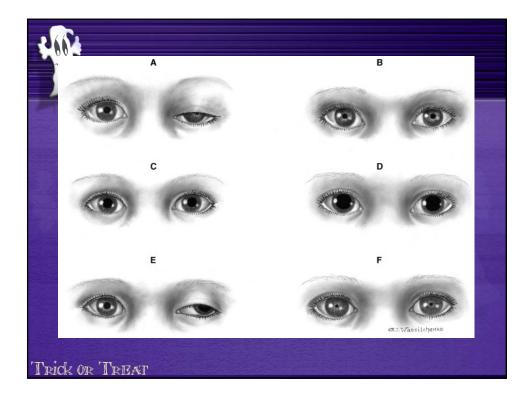








/ital signs	Skin
yes	Motor function
Posturing	Reflexes

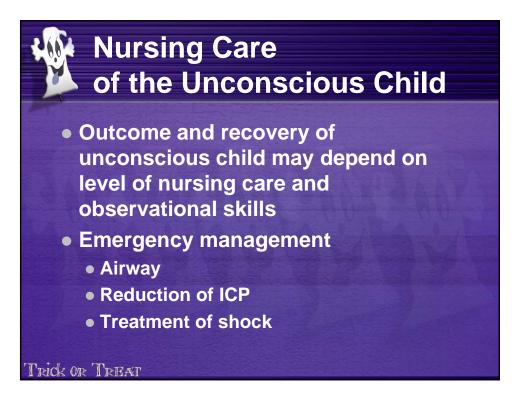


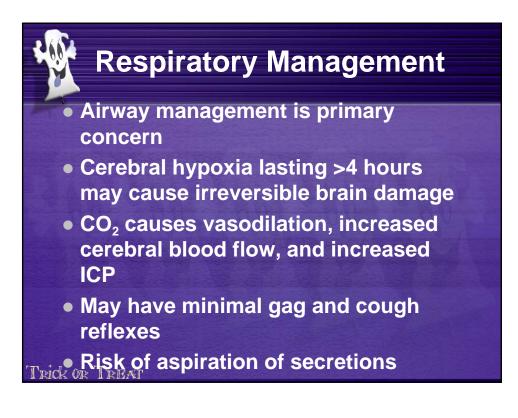


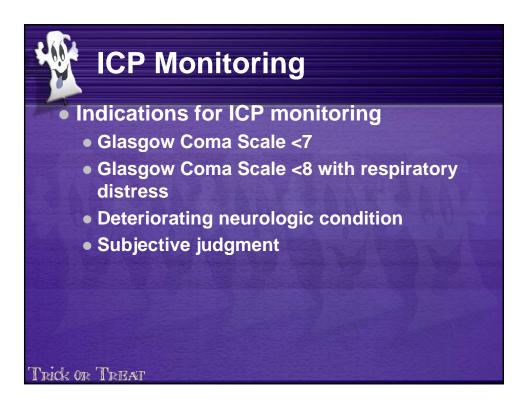
Special Diagnostic Procedures

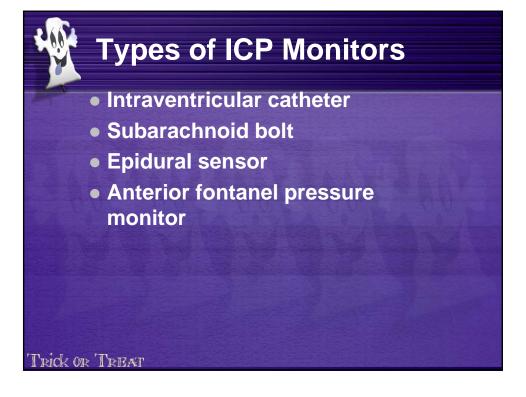
- Lab tests: glucose, CBC, electrolytes, blood culture if fever, evaluate for toxic substances, liver function
- Imaging: CT, MRI, echoencephalography, ultrasound, nuclear brain scan, PET
- Lumbar puncture
- EEG
- X-ray (rule out skull fractures, dislocations; evaluate degenerative changes, suture lines)

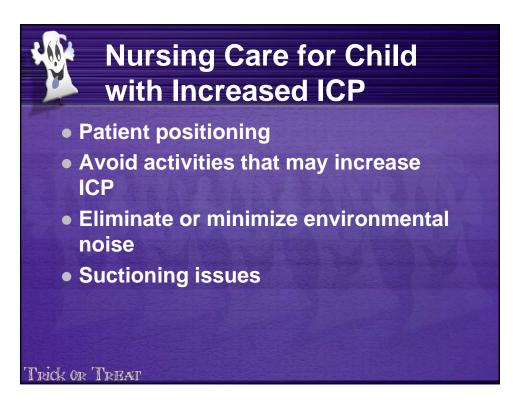
Trick or Treat



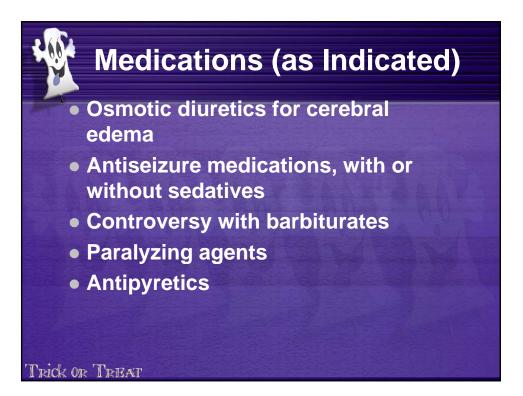


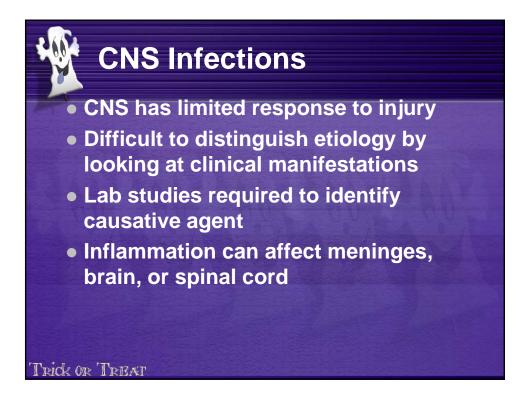


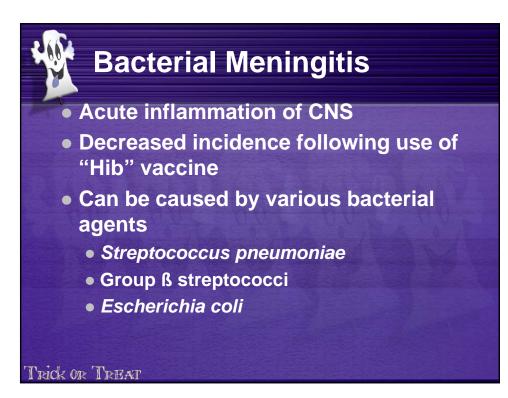








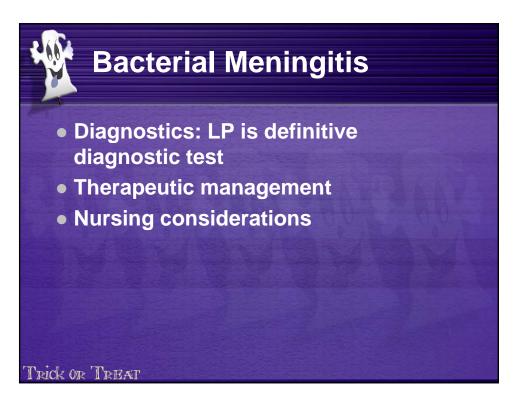


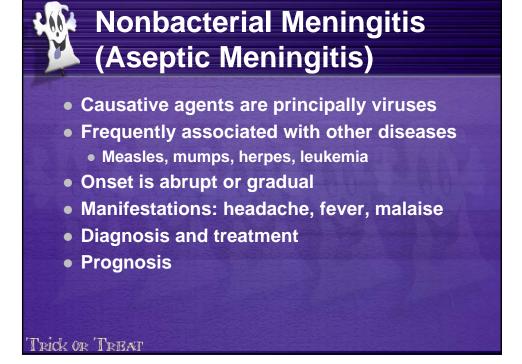


Transmission of Bacterial Meningitis

- Droplet infection from nasopharyngeal secretions
- Appears as extension of other bacterial infection through vascular dissemination
- Organisms then spread through CSF

Trick OR TREAT



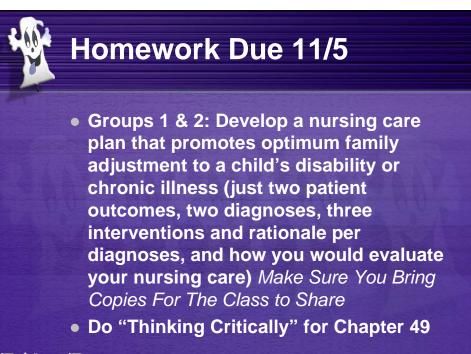






- Kyle, T. (2008). Essentials of pediatric nursing. Philadelphia: Lippincott Williams & Wilkins.
- Wong, D., Perry, S, Hockenberry, M., Lowdermilk, D, Wilson, D. (2006). Maternal child nursing care. (3rd ed.). St. Louis, M.O.: Mosby Inc.

Trick or Treat

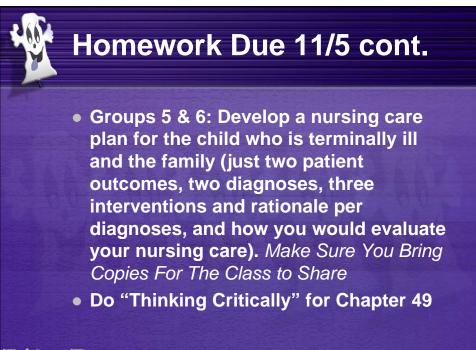


Trick or Treat

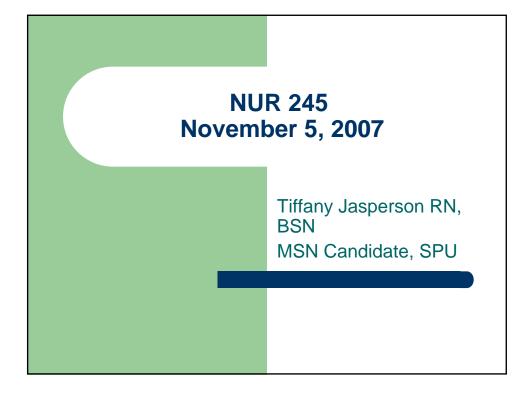
Homework Due 11/5 cont.

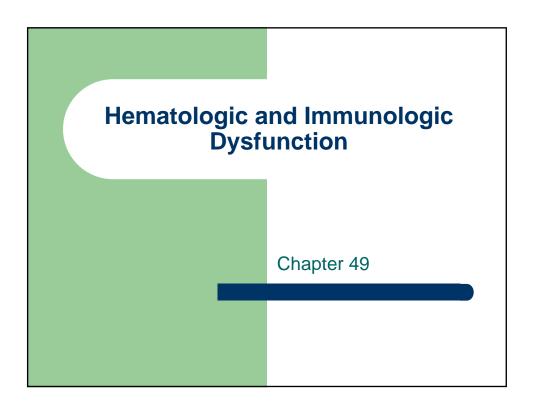
- Groups 3 & 4: Develop a teaching plan for the home management of a child with a disability, chronic illness, or terminal illness. Make Sure You Bring Copies For The Class to Share
- Do "Thinking Critically" for Chapter 49

Trick or Treat



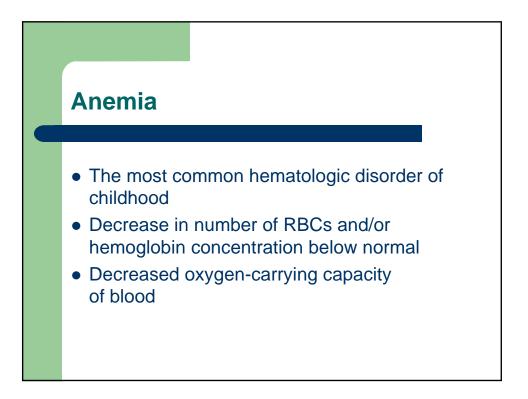
TRICK OR TREAT

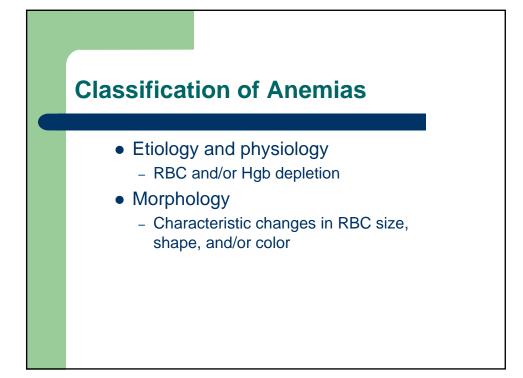


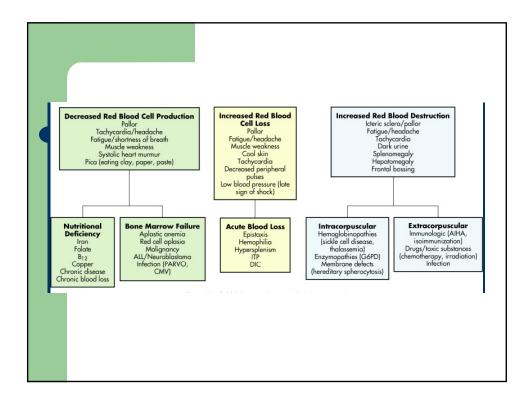


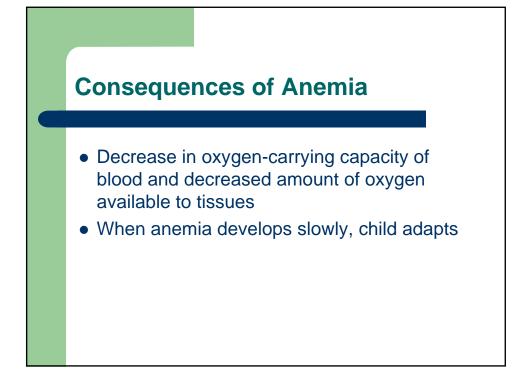
Assessment of Hematologic Function

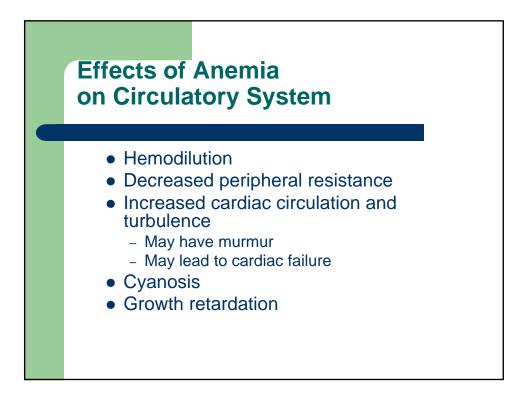
- Complete blood count
- History and assessment findings
- Child's energy and activity level
- Growth patterns

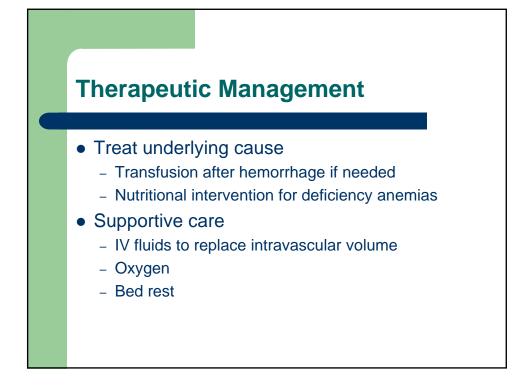


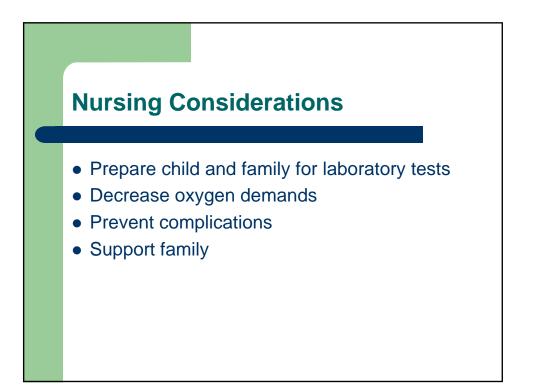


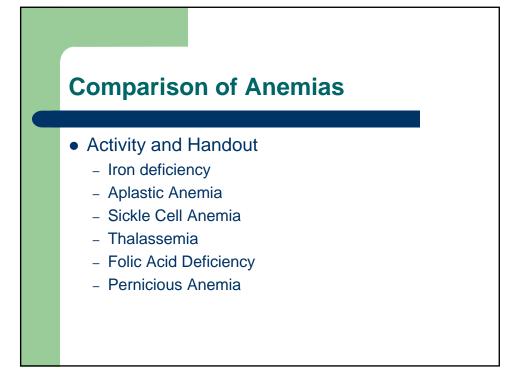


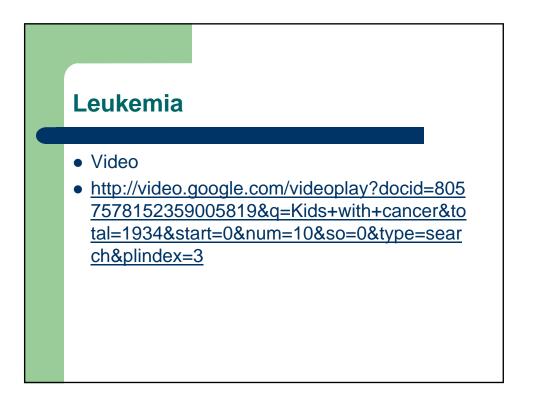


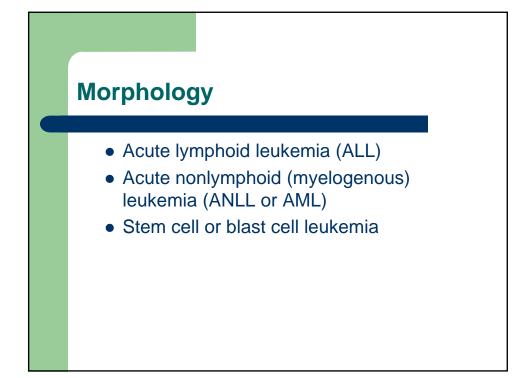


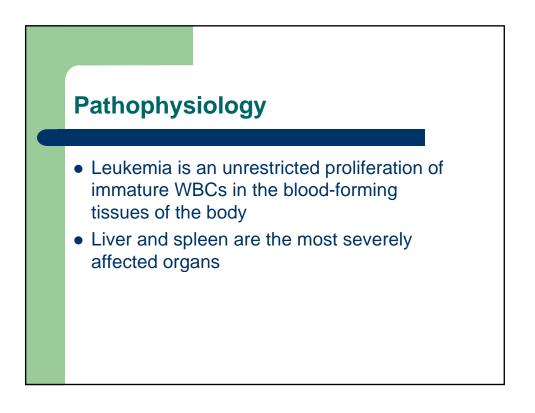






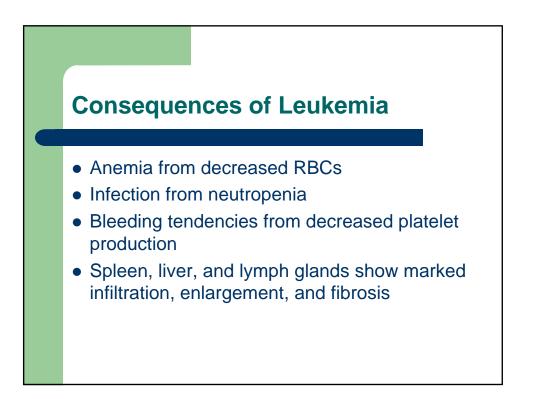


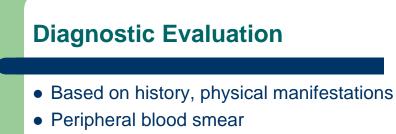




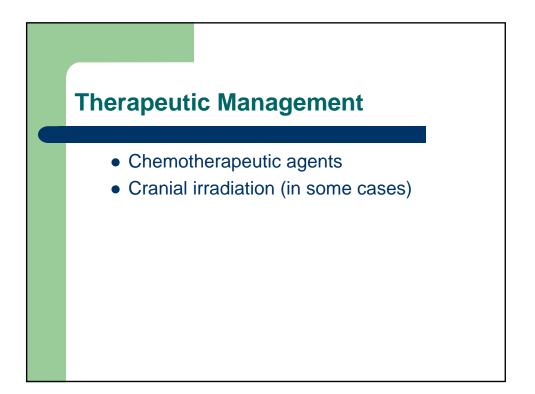


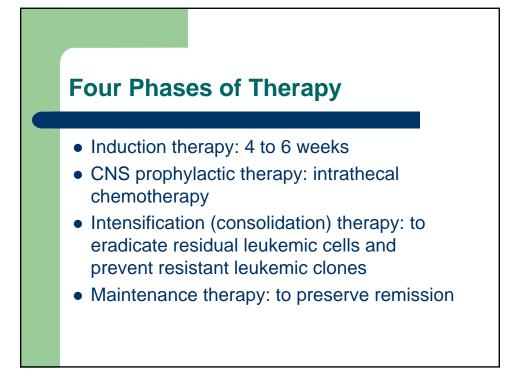
- Although leukemia is an overproduction of WBCs, often acute form causes low leukocyte count
- Cellular destruction takes place by infiltration and subsequent competition for metabolic elements

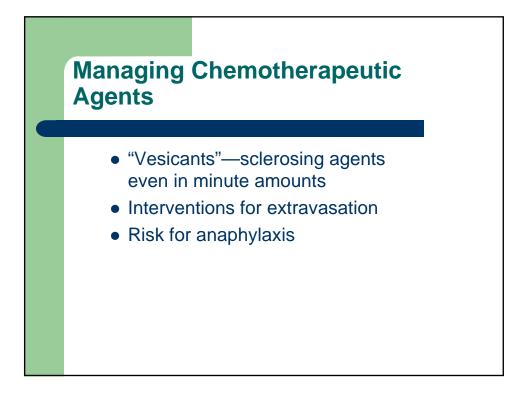




- Immature leukocytes
- Frequently low blood counts
- LP to evaluate CNS involvement
- Bone marrow aspiration or biopsy







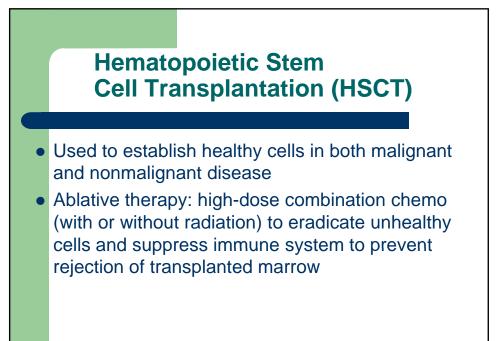
Managing Problems of Drug Toxicity

- Nausea/vomiting
- Anorexia
- Mucosal ulceration
- Neuropathy
- Hemorrhagic cystitis
- Alopecia
- Mood changes
- Moon face



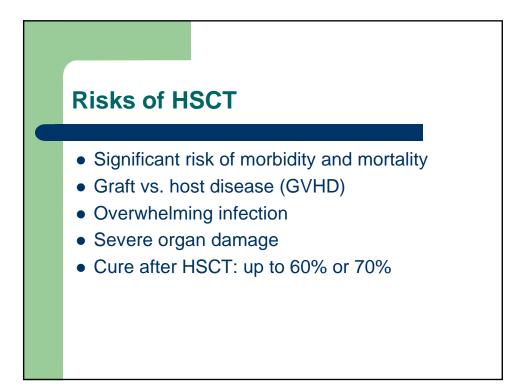
Hematopoietic Stem Cell Transplantation (HSCT)

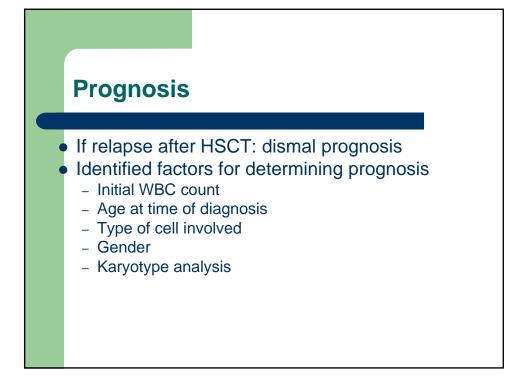
- Donors may be relatives or nonrelatives
- Antigen matched or mismatched
- Peripheral stem cells may be used
- Stem cells from umbilical cord blood

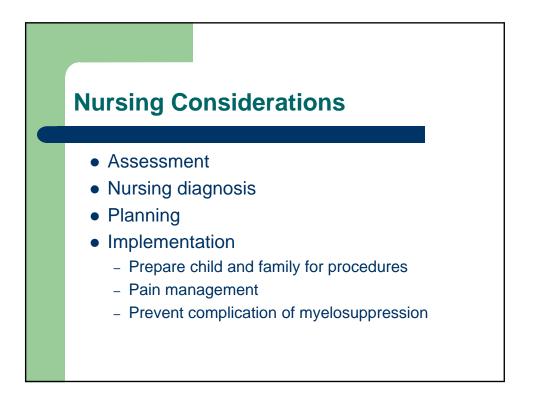


Hematopoietic Stem Cell Transplantation (HSCT)

- Stem cells harvested from bone marrow, peripheral blood, or umbilical vein of placenta
- Stem cells given to patient by IV transfusion
- Newly transfused stem cells repopulate ablative bone marrow

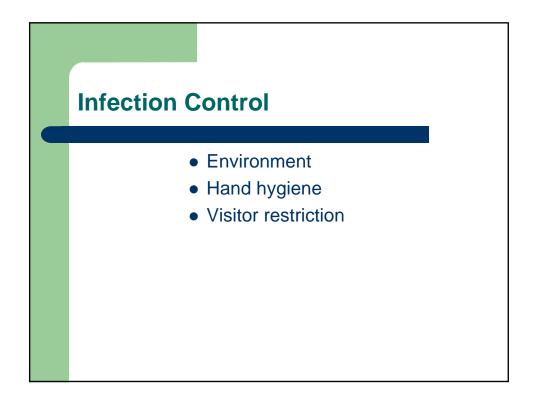


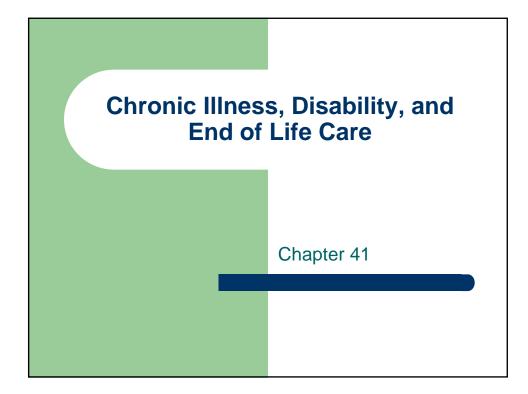


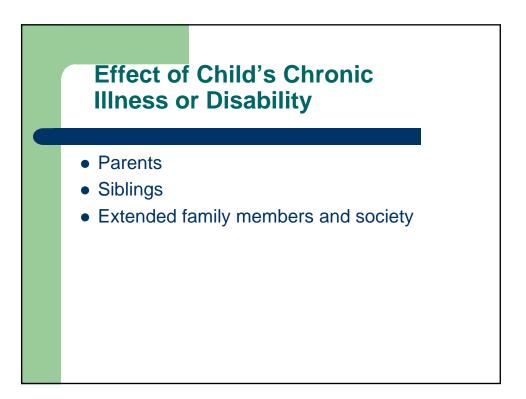


Increased Susceptibility to Infection

- At time of diagnosis and relapse
- During immunosuppressive therapy
- After prolonged antibiotic therapy that predisposes to the growth of resistant organism







Coping with Ongoing Stress and Periodic Crises

- Concurrent stresses within the family
- Coping mechanisms
- Parental empowerment

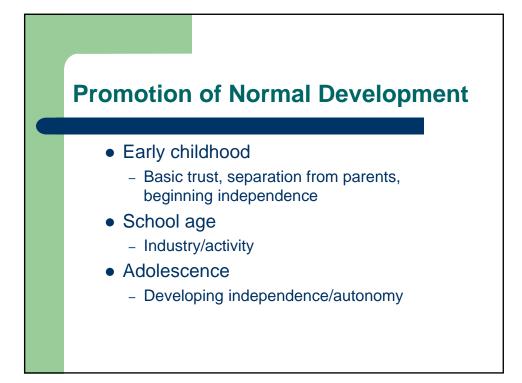
Assisting Family Members in Managing Feelings

- Shock and denial
- Adjustment
- Reintegration and acknowledgment
- Establishing a support system

Effect of Chronic Illness or Disability on the Child

- Developmental aspects
- Coping mechanisms
- Responses to parental behavior
- Type of Illness or disability
- ADA: Americans with Disabilities Act





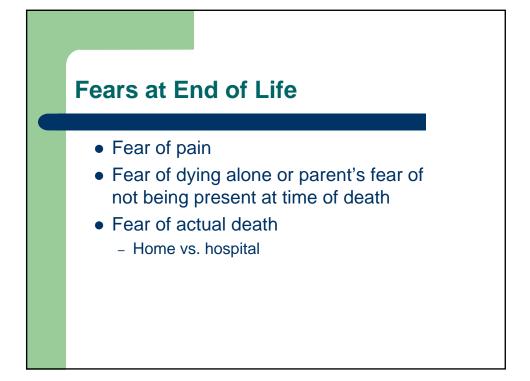


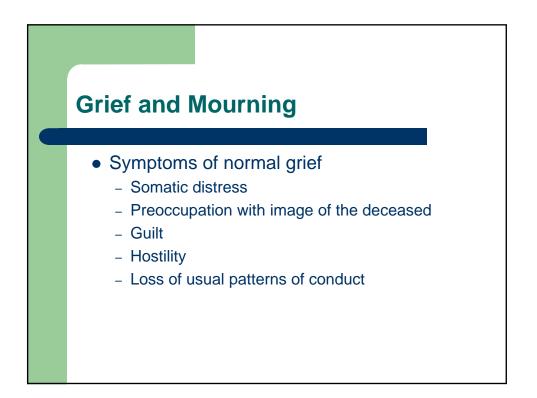
Perspectives on Care of Children at End of Life

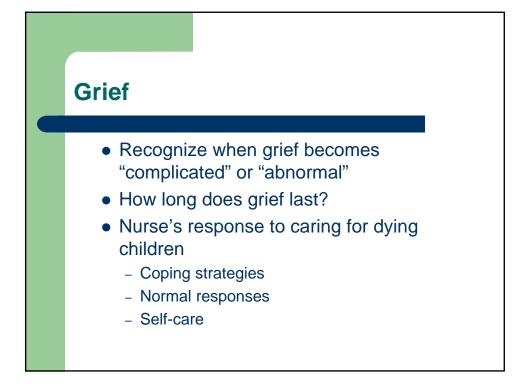
- Principles of palliative care
 - Focus on symptom control and support
- Decision making at end of life
 - Parents, child, health care team
- Treatment options for the terminally ill child

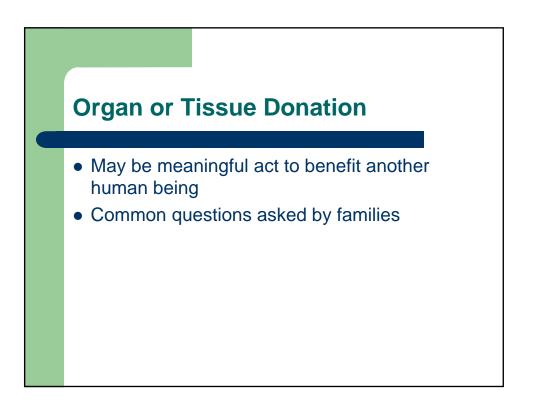
Nursing Care of Child and Family at End of Life

- Pain and symptom management
- Parents and siblings' need for support



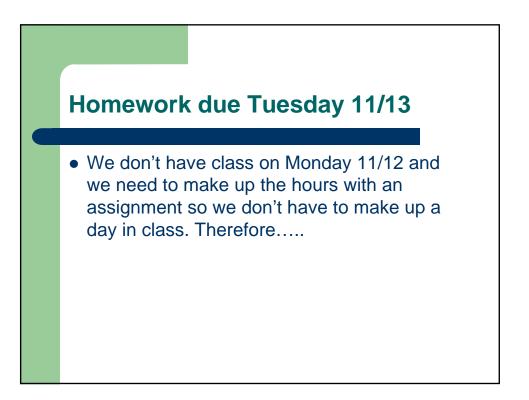


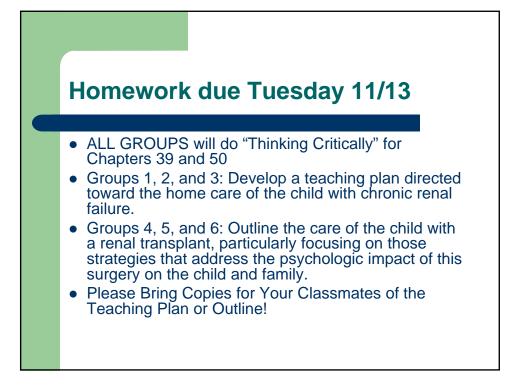






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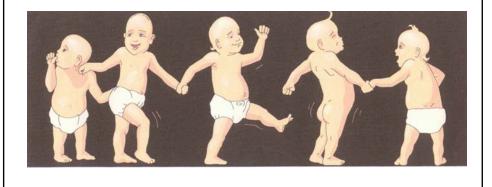


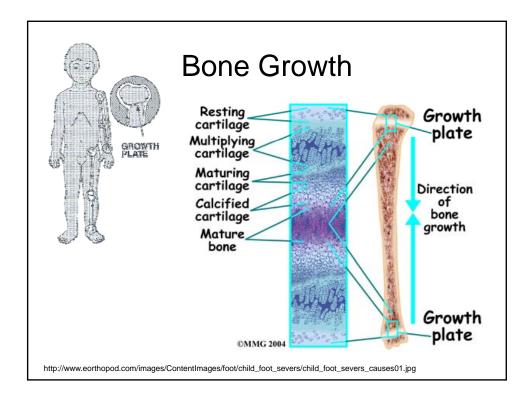


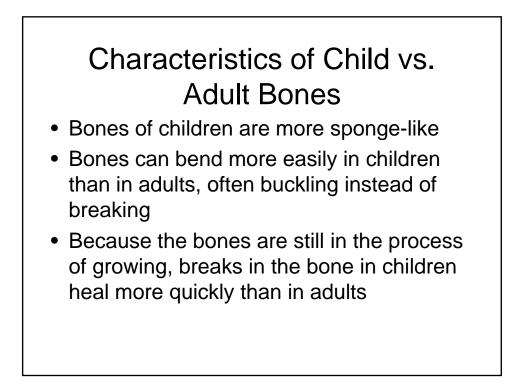
Almost Done! NUR 245

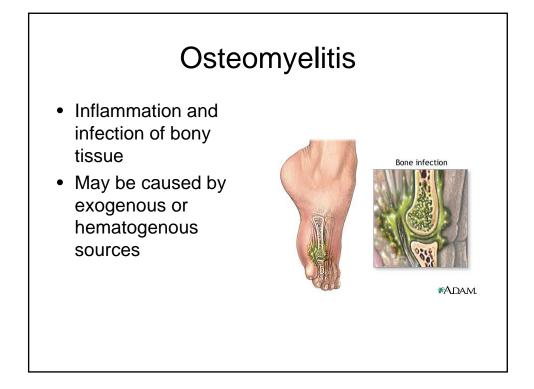
Tiffany Jasperson RN, BSN MSN Candidate, SPU Nov. 18, 2007

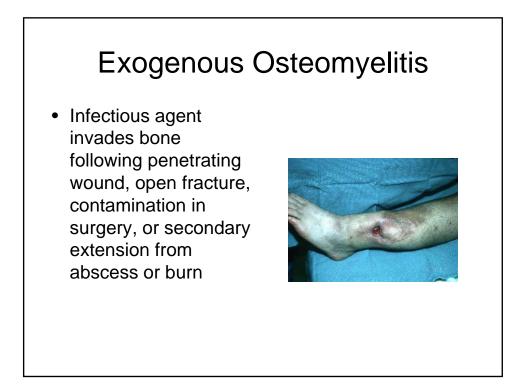
Chapter 54 Musculoskeletal or Articular Disorder











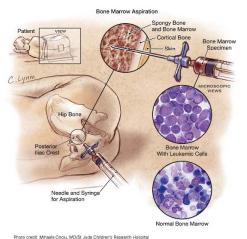
Hematogenous Osteomyelitis

- Preexisting infection spreads to bone
- Source may be furuncles, skin infections, URI, abscessed teeth, pyelonephritis
- Any organism can cause osteomyelitis
- Infective emboli travel to arteries in bone metaphysis, causing abscess formation and bone destruction



Osteomyelitis

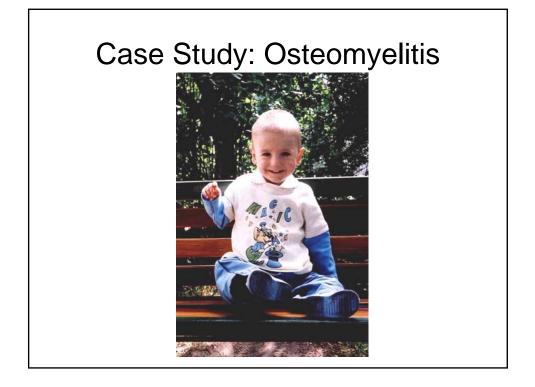
- Signs/symptoms begin abruptly, resemble symptoms of arthritis and leukemia
- Marked leukocytosis
- Bone cultures obtained from biopsy or aspirate
- Early x-rays may appear normal
- Bone scans for diagnosis

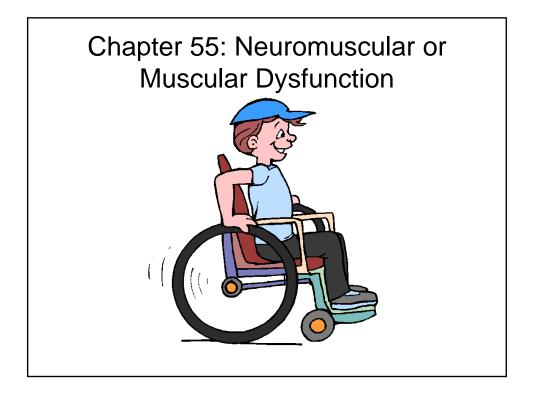


Therapeutic Management of Osteomyelitis

- May have subacute presentation with walled-off abscess rather than spreading infection
- Prompt, vigorous IV antibiotics for extended period (3-4 weeks or up to several months)
- Monitor hematologic, renal, hepatic responses to treatment







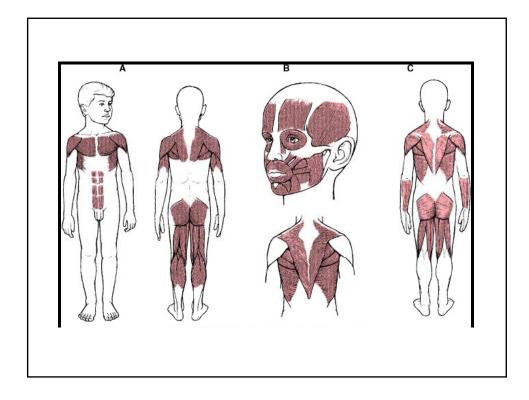
Pediatric Muscles

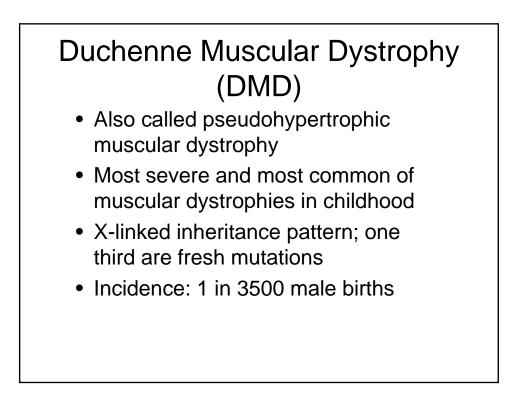
- Infants muscles account for about 25% of total body weight
- Muscles grow rapidly in adolescence
- Clumsiness and risk for injury
- Boy develops bulkier muscles-testosterone
- Infant girls have laxer ligaments-increased risk for hip dysplasia



Muscular Dystrophies (MDs)

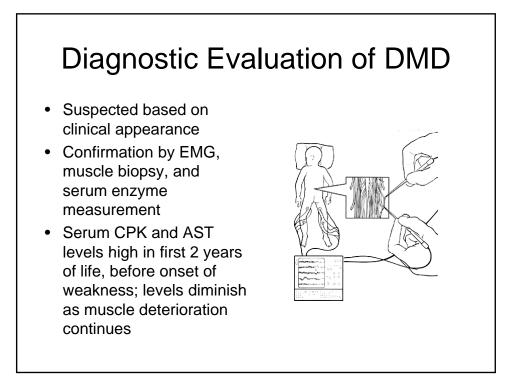
- Largest group of muscular diseases in children
- All have genetic origin with gradual degeneration of muscle fibers, progressive weakness, and wasting of skeletal muscles
- All have increasing disability and deformity with loss of strength





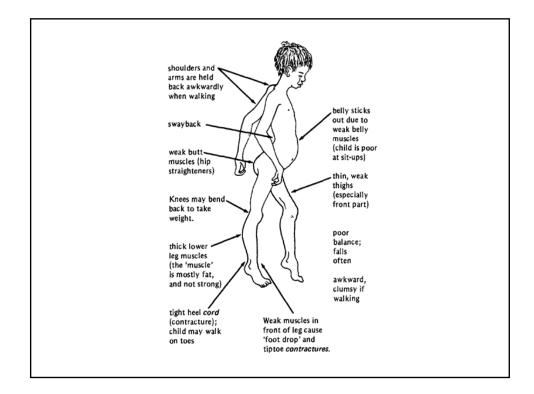
Characteristics of DMD

- Onset between ages 3 and 5 years
- Progressive muscle weakness, wasting, and contractures
- Calf muscles hypertrophy in most patients
- Progressive generalized weakness in adolescence
- Death from respiratory or cardiac failure



Clinical Manifestations of DMD

- Waddling gait, frequent falls, Gower sign
- Lordosis
- Enlarged muscles, especially thighs and upper arms
- Profound muscular atrophy in later stages
- Mental deficiency common



Nursing Considerations of DMD

- Helping child and family cope with chronic, progressive, debilitating disease
- Design program to foster independence and activity as long as possible
- Teach child self-help skills
- Appropriate health care assistance as child's needs intensify (home health, skilled nursing facility, respite care for family, etc.)

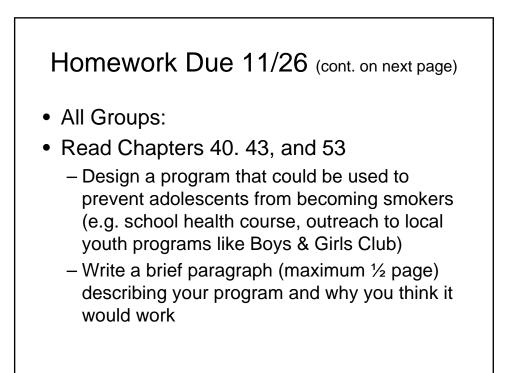


Therapeutic Management of DMD

- No effective treatment established
- Primary goal: maintain function in unaffected muscles as long as possible
- Keep child as active as possible
- ROM, bracing, performance of ADLs, surgical release of contractures prn
- · Genetic counseling for family

References

- Klossner, N., & Hatfield, N. (2006). Introductory maternity & pediatric nursing. Philadelphia: Lippincott Williams & Wilkins.
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Homework Due 11/26

- Groups 1, 2, & 3 complete the Thinking Critically exercises for Chapter 43
- Groups 4, 5, & 6 complete the Thinking Critically exercises for Chapter 53

Group Members Names _____ Date

NUR 245 Homework Due 10/22/07

I. Read Wong & Perry Chapter 32

Each homework group will choose a subcultural group below and identify someone either inside the classroom or outside of the classroom to interview. The subcultural group you choose cannot be the majority culture of your homework group.

Subcultural choices: Homeless Family Migrant Family Working Poor Gay and/or Lesbian Family Hispanic or Latino Family Asian-American Family African-American Family Hindu Family Islam Family Buddhism Family Other of your choice-must be cleared with instructor

Suggested Questions for your interview.

- What ethnic group, socioeconomic class, religion, age group, and community do you belong to?
- What about these associations do you find embarrassing or would you like to change? Why?
- What sociocultural factors in your background might contribute to your being rejected by members of other cultures?
- What did your parents and significant others say about people who were different from your family? What do you believe and value about people who are different from your family?
- How do you define health, disease, and illness?
- Are you usually on time? early? late?
- How do you feel if others are late? (unbothered? frustrated? angry? not respected?)
- What are your views about childhood education? preschool?
- Are you comfortable with physical contact (touching, embracing)? How much and with whom?
- What are your religious views and biases? Do you adhere to religious rituals?
- What are your feelings about childrearing practices (including nutrition, discipline, play, roles)?
- What experiences have you had with people from ethnic groups, socioeconomic classes, religions, age groups, or communities different from your own?
- What were those experiences like?

- How did you feel about them?
- What personal qualities do you have that will help you establish interpersonal relationships with persons from other cultural groups?
- What personal qualities may be detrimental?

Be prepared to give a brief presentation on the findings of your interview.

II. Read Wong & Perry Chapter 52 and complete the Thinking Critically Assignment in the Workbook.

TURN IN ONLY ONE COPY OF THE HOMEWORK PER GROUP

Have fun with this, it should be a great learning experience!

Name	;
Date	

NUR 245, Fall 2007

Homework and Study Guide for Peds Quiz #3 Due Monday, 11/19/07

Directions: This is your study guide AND homework combined for Peds Quiz #3. The quiz will cover Chapters 38, 42, 51, 41, 49, 39, and 50. You may turn in just one copy of this homework per group, but I highly recommend that you either study together or each individual work on ALL the answers for the best success on the quiz.

Chapter 38

1. How should nurses teach parents to address the sex questions of their preschoolers?

2. How can nurses help patients and families prevent the spread of conjunctivitis (see PowerPoint)?

3. Describe the nursing care of the maltreated child.

Chapter 42

1. What are the signs of cognitive impairment in pediatrics?

2. Read through the critical thinking exercise about Down Syndrome on p. 1262. Describe the nursing care of patients with Down Syndrome.

3. What are the other congenital anomalies and complications associated with Down Syndrome?

4. Describe the nursing management of a child with autism.

Chapter 51

1. What are the signs of increased ICP in infants? Children? Compare early vs. late signs of increased ICP.

2. How is meningitis diagnosed?

3. Describe the diagnostics for an unconscious child.

4. When are EMLA and sedation indicated during diagnostic procedures of the unconscious child (p. 1674-1675)?

5. Describe the nursing care of a hydrocephalus patient status post (s/p) VP shunt insertion.

Chapter 41

1. Describe the sibling reactions to a child with a chronic illness.

2. Describe the nursing management of pain in the dying child.

3. Give 5 examples of family coping mechanisms.

4. Describe the nursing care of the family with special needs at the time of diagnosis. <u>Chapter 49</u>

1. Compare and contrast the lab findings (morphology) of iron-deficiency anemia vs. sickle cell anemia.

2. Describe the nursing care of patients with iron-deficiency anemia.

3. Describe the pain management of a patient in a sickle-cell crisis.

4. How can nurses prevent infection in a patient diagnosed with leukemia?

Chapter 39

1. From what you know about Maslow's Hierarchy of Needs, prioritize the teaching topics for school age children. (i.e. what is the most important to least important?)

2. Read the critical thinking exercise on ADHD on p. 1174. Describe the nursing care of a patient taking Ritalin.

Chapter 50

1. When should a child be evaluated for acute glomerulonephritis?

2. Describe the diet of a patient with acute glomerulonephritis.

3. What are the complications of peritoneal dialysis? How would you recognize these complications in pediatric patients?

South Seattle Community College LPN to RN Ladder Program

NUR 245 NURSING THEORY I - OBSTETRIC AND PEDIATRIC NURSING

Name	
Date _	

Group Member and Self-Evaluation of Homework Participation

<u>Directions:</u> Each week as part of the grade for homework every group member needs to fill out the following table honestly about how many participation points each student should be awarded. (Total of 5 points can be awarded to each student.) Each student's self-evaluation and group members' grades of them will be averaged for the final score of the 5 total participation points and faculty will put the student's final score out of 5 points in the "Office Use Only" column. The other 10 points (15pts total for homework) comes from the actual group homework turned in and the group presentation.

	Student Name	Points Awarded for Each Student (0-5)	Office Use Only
Self-evaluation			Final Average Grade for this week:
Group Member			

Comments (optional):