South Dakota State University

ECE 470: Early Childhood Education Inclusion Strategies

Concepts addressed:
Childhood Physical Development: Atypical development

Students should refer to:

Specifically, students should review:
I. Causes of disabilities
   a. 57-70% occur prenatally
   b. 17-32% occur postpartum
   c. Cell level
      i. Nondisjunction
      ii. Translocation
      iii. Deletion
   d. Autosomal Recessive Disorders
   e. Autosomal Dominant Disorders
   f. X-Linked Disorders

II. Screening
   a. Maternal Serum Screening
   b. Ultrasonography
   c. Fetal Echocardiography
   d. Magnetic Resonance Imaging
   e. Chorionic Villus Sampling
   f. Amniocentesis
   g. Percutaneous Umbilical Blood Sampling
   h. Diagnostic Testing of Fetal Cells

III. Infections
   a. STORCH
   b. Group B Streptococcus

IV. Biological Risks
   a. HIV
   b. AIDS
   c. Maternal Malnutrition
   d. Chronic Maternal Diseases

V. Teratogens
   a. Alcohol
   b. Nicotine
   c. Drugs
   d. Environmental – Radiation, Hyperthermia, Mercury, Lead, & PCPs

VI. Birthing Issues – Transition from the Womb

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VII. Problems in the First Weeks of Life
   a. Hypoxic-Ischemic Encephalopathy
   b. Intracranial Hemorrhage

VIII. Prematurity
   a. Respiratory problems
   b. Neurological Problems
   c. Cardiovascular Problems
   d. Gastrointestinal Problems
   e. Ophthalmologic Problems
      i. Retinopathy of Prematurity
      ii. Strabismus
   f. Long Term Implications of Prematurity
      i. Limited Resources
      ii. Significant Developmental Delays

IX. Atypical Physical & Motor Development
   a. Variation of reflex patterns
   b. Variation of motor skills
   c. Variation of motor development
      i. Tonic characteristics
      ii. Phasic characteristics

X. Atypical Hearing
   a. Conductive Hearing Loss
   b. Sensorineural Hearing Loss

Helpful websites include:
National Organization for Rare Disorders (NORD):  http://www.nord-rdb.com
CSAP National Women’s Resource Center for the Prevention of Perinatal Abuse of Alcohol and Other Drugs:  http://www.nwrc.org
March of Dimes:  http://www.modimes.org
Zero to Three:  http://www.zerotothree.org