

**LINCOLN MEMORIAL UNIVERSITY**  
**School of Nursing**  
**N245 – Summer 2010**

**Unit 4- N245 – Pediatric Nursing – Cardiac / Hematology (Exam 5)**

**OBJECTIVES:** Upon completion of the unit, the student will be able to demonstrate, in the clinical and campus lab setting, in individual and group conferences, and on written materials, the ability to:

1. Describe history and physical findings associated with cardiovascular problems in children.
2. Discuss care of the child undergoing cardiac catheterization.
3. Demonstrate understanding of the hemodynamics of circulation associated with congenital heart disease.
4. Describe manifestations and management of children with congenital heart disease.
5. Discuss management of the child with congestive heart failure.
6. Identify acquired cardiovascular disorders that affect children.
7. Discuss nursing care for a child with sickle-cell anemia.
8. Discuss nursing care for a child with hemophilia.

**TOPICAL OUTLINE**

- I. Assessment of Cardiovascular Function
  - a. History
  - b. Physical Assessment
- II. Nursing Care of the Child with Congenital Heart Disease (CHD)
  - a. Circulatory Changes at Birth
  - b. Classification of Defects
    - i. Defects of Increased Pulmonary Blood Flow (Acyanotic)
      1. Atrial Septal Defect (ASD)
      2. Ventricular Septal Defect (VSD)
      3. Atrioventricular Canal (AVC)
      4. Patent Ductus Arteriosus (PDA)
    - ii. Obstructive Defects
      1. Coarctation of the Aorta (COA)
      2. Aortic Stenosis (AS)
      3. Pulmonic Stenosis (PS)
    - iii. Defects of Decreased Pulmonary Blood Flow (Cyanotic)
      1. Tetralogy of Fallot (TOF)
      2. Tricuspid Atresia
    - iv. Mixed Defects
      1. Transposition of the Great Vessels
      2. Truncus Arteriosus
      3. Hypoplastic Left Heart Syndrome
- III. Nursing Care of the Child with Congestive Heart Failure
- IV. Nursing Care of the Child undergoing Cardiac Surgery
- V. Nursing Care of the Child with Acquired Cardiac Disorders
  - a. Rheumatic Fever
  - b. Kawasaki Disease
- VI. Nursing Care of the Child with Hematologic Disorders
  - a. Sickle-Cell Anemia
  - b. Hemophilia

**REQUIRED READINGS:**

**Wong, Donna, L., et al. (2001).** *Wong's essentials of pediatric nursing.* (7<sup>th</sup> ed.) St. Louis: Mosby, Inc. Chapter: 25-26 (focus on topics covered in topical outline)