

**Covenant School of Nursing**  
**Instructional Module 5 Learning Guide**  
**Topic: Cardiac Dysfunction in Children**

**Learning Goals/Outcomes**

Upon completion of this lesson, you will be able to:

- Categorize congenital heart defects according to their hemodynamic characteristics.
- Evaluate blood flow alterations in pediatric patients with congenital heart defects.
- Create a nursing care plan for a pediatric patient with congestive heart failure.
- Prioritize nursing care of a pediatric patient experiencing a hypercyanotic spell.
- Discuss diagnostic procedures utilized to evaluate pediatric patients with suspected cardiac disease.
- Differentiate between types of acquired cardiac disorders.

**Pre-Class Preparation**

Required:

- Hockenberry, M., Rodgers, C. & Wilson, D. (2022). *Wong's essentials of pediatric nursing* (11th ed.). St. Louis: Mosby Elsevier.  
Page 748, Box 23.5 Clinical Manifestations of Heart Failure  
Page 752, Box 23.6 Common Signs of Digoxin Toxicity in Children  
Page 754, Nursing Care Guidelines (Treating Hypercyanotic Spells)

Recommended:

- Hockenberry  
Congenital Heart Defects:  
Pages 739-740, Box 23.1 (Atrial Septal Defect, Ventricular Septal Defect, Patent Ductus Arteriosus)  
Pages 741-742, Box 23.2 (Coarctation of the Aorta, Aortic Stenosis, Pulmonic Stenosis)  
Page 742-743, Box 23.3 (Tetralogy of Fallot)  
Pages 745, Box 23.4 (Hypoplastic Left Heart Syndrome)  
  
Acquired Cardiovascular Disorders  
Pages 760-763 (Infective Endocarditis, Rheumatic Fever)  
Pages 772-773 (Kawasaki Disease)

Additional Resources:

- HESI Clinical Skills: Skills for Nursing Collection: Neonatal Collection, Maternal Newborn Collection, and Pediatrics Collection

**Learning Activities**

Activities:

- Discussion/Group Activity: Normal cardiac anatomy and blood flow pattern
- Khan Academy videos related to heart defects

Laboratory/Clinical:

- Care for patient in clinical setting

Online/Out of Class Activities:

**Evaluation Methods**

<ul style="list-style-type: none"> <li>• Unit Exam</li> <li>• HESI RN Specialty Exam – Pediatric Nursing</li> </ul>	
<b>Texas DECs</b>	<b>QSEN Competencies</b>
Knowledge: IIB1,2,4,7; IIC3; IID1a-d Clinical Judgment: IIB7; IIE1; IIG4	Patient-Centered Care, Evidence Based Practice
<b>IM Student Learning Outcomes</b>	<b>NCLEX Test Plan</b>
1,3,7,8	Pharmacological & Parenteral Therapies: Adverse Effects/Contraindications/Side Effects/Interactions, Dosage Calculation, Expected Actions/Outcomes, Medication Administration; Reduction of Risk Potential: Changes/Abnormalities in Vital Signs, Diagnostic Tests, Laboratory Values, Potential for Alterations in Body Systems, Potential for Complications of Diagnostic Tests/Treatments/Procedures, System Specific Assessments, Therapeutic Procedures; Physiological Adaptation: Alterations in Body Systems, Hemodynamics, Pathophysiology
<b>Concepts</b>	<b>Faculty</b>
<i>Evidence Based Practice, Clinical Judgment, Health Promotion, Perfusion</i>	<i>Cindy Gordey MSN, RN, CCRN-K</i>
<b>Date originated: February 2016</b>	<b>Revision Dates: November 2017, February 2018, November 2019, April 2021, September 2022</b>

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