

# **NURSING 202: ADVANCED CONCEPTS OF NURSING**

## **UNIT II: THE PATIENT EXPERIENCING ACUTE CARDIAC FAILURE**

### **UNIT OBJECTIVES**

#### **AT THE COMPLETION OF THE UNIT, THE STUDENT:**

1. Discusses the pathophysiology and complications associated with acute cardiac failure.
2. Identifies and discusses diagnostic, pharmacologic and other medical treatment measures for patients with an acute myocardial infarction (MI).
3. Identifies the nursing responsibilities for patients with an acute myocardial infarction (MI).
4. Discusses interventional cardiology techniques and cardiac surgeries.
5. Discusses hemodynamic monitoring, cardiac pacing and ICD's for the acutely ill cardiac patient.
6. Analyzes rhythm/monitoring strips for acutely ill cardiac patients.
7. Identifies patient teaching needs for patients experiencing cardiac disorders.
8. Applies evidence-based practice/best practice standards related to care of the acute cardiac patient.
9. Implements therapeutic nursing care, using the nursing process and critical thinking skills, for patients with disorders of the cardiovascular system.

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<p><b>Unit II: The Patient Experiencing Acute Cardiac Failure:</b>  <b>Theory Hours- 10.0</b>  <b>Clinical Hours- 2</b></p> <p>I. Cardiomyopathies, Inflammatory Disorders, Valve Disorders</p> <p>A. Valvular Heart Disease</p> <ol style="list-style-type: none"> <li>1. Mitral</li> <li>2. Aortic</li> <li>3. Tricuspid with Pulmonic</li> <li>4. Valvular Replacement</li> </ol> <p>B. Inflammatory Heart Disease</p> <ol style="list-style-type: none"> <li>1. Endocarditis</li> <li>2. Pericarditis</li> <li>3. Myocarditis</li> <li>4. Rheumatic Fever</li> </ol> <p>C. Cardiomyopathies</p> <ol style="list-style-type: none"> <li>1. Dilated</li> <li>2. Hypertrophic</li> <li>3. Restrictive</li> </ol> <p>II. Myocardial Infarction</p> <p>A. Nursing Management during acute stage</p> <p>B. Fibrinolytics</p> <p>C. Complications</p> <ol style="list-style-type: none"> <li>1. Acute Heart Failure</li> <li>2. Acute Pulmonary Edema</li> <li>3. Thromboemboli</li> <li>4. Pericarditis</li> <li>5. Dressler's Syndrome</li> <li>6. Ventricular Septal Rupture</li> <li>7. Ventricular Aneurysm</li> <li>8. Papillary Muscle Rupture</li> <li>9. Cardiogenic Shock</li> </ol>	<p>Interactive Lectures</p> <p>Visual- Based Active Learning: BioDigital Video Models</p> <p>Case Study Analysis: Aortic/Mitral Stenosis</p> <p>Case Study Analysis: Infective Endocarditis</p> <p>Game Based Learning: Kahoot!</p> <p>Cooperative &amp; Collaborative Learning: ED Chest Pain Concept Map Group Cardiac Diagram</p> <p>Visual-Based Active Learning: YouTube Video – Starling’s Law</p>	<p>Clinical: District Nursing</p> <p>Pre/Post Conference</p> <p>Cardiovascular Observation Sites</p> <p>Class Preparation: A&amp;P/Heart Failure Review</p> <p>ATI Pharmacology Made Easy: Cardiovascular</p> <p>Cardiac Anatomy Review</p>	<p>Clinical Evaluation</p> <p>Class Preparation</p>



CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<p>IV. Hemodynamic Monitoring</p> <p>A. Indications</p> <p>B. Equipment</p> <ol style="list-style-type: none"> <li>1. Set-up</li> <li>2. Zeroing the Transducer</li> <li>3. Leveling the Transducer</li> </ol> <p>C. Nursing Management</p> <p>D. Types:</p> <ol style="list-style-type: none"> <li>1. Arterial Line <ol style="list-style-type: none"> <li>a) Allen's Test</li> <li>b) Mean Arterial Pressure (MAP)</li> </ol> </li> <li>2. CVP</li> <li>3. ScVO2</li> <li>4. PA Lines <ol style="list-style-type: none"> <li>a) PA Pressure</li> <li>b) Wedge Pressure</li> </ol> </li> <li>5. Other <ol style="list-style-type: none"> <li>a) Cardiac Output</li> <li>b) Cardiac Index</li> <li>c) SVR &amp; PVR</li> </ol> </li> </ol> <p>E. Complications</p>	<p>Experiential Learning: Hemodynamics use, set-up, and application demonstration</p> <p>Interactive Lecture: Group discussion on interpreting hemodynamic waveforms and normal values</p> <p>Visual-Based Learning: PA Lines YouTube Video</p>		<p>Quiz Exam #3</p>