

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>Unit II: The Patient Experiencing Acute Cardiac Failure: Theory Hours- 10.0 Clinical Hours- 1.5</p> <p>I. Cardiomyopathies, Inflammatory Disorders, Valve Disorders A. Cardiomyopathies 1. Dilated 2. Hypertrophic 3. Restrictive B. Inflammatory Heart Disease 1. Endocarditis 2. Pericarditis 3. Myocarditis 4. Rheumatic Fever C. Valvular Heart Disease 1. Mitral 2. Aortic 3. Tricuspid with Pulmonic 4. Valvular Replacement</p> <p>II. Myocardial Infarction A. Nursing Management during acute stage B. Fibrinolytics C. Complications 1. Acute Heart Failure 2. Acute Pulmonary Edema 3. Thromboemboli 4. Pericarditis 5. Dressler's Syndrome 6. Ventricular Septal Rupture 7. Ventricular Aneurysm 8. Papillary Muscle Rupture 9. Cardiogenic Shock</p>	<p>Interactive Lectures</p> <p>Case Study Analysis</p> <p>Cooperative & 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 Cardiovascular observation sites</p> <p>Pre/Post Conference</p> <p>Class Preparation: Heart Failure Review</p> <p>ATI Pharmacology Made Easy: Cardiovascular</p> <p>Class Preparation: Cardiac Anatomy Review</p>	<p>Unit Exam Quiz Clinical Evaluation</p> <p>Final Exam</p> <p>Class Preparation</p>

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<ul style="list-style-type: none"> a. Pathophysiology b. Management of Cardiogenic shock D. Cardiac Surgery <ul style="list-style-type: none"> 1. Percutaneous Transluminal Coronary Angioplasty (PTCA) 2. Stents 3. Arthrectomy/Ablation 4. Ventricular Assist Device 5. Coronary Artery Bypass Graft (CABG) <ul style="list-style-type: none"> a. Pre-& post-operative 6. MID CAB III. Special Management Modalities <ul style="list-style-type: none"> A. Cardiac Pacing <ul style="list-style-type: none"> 1. Permanent Pacers <ul style="list-style-type: none"> a. Synchronous b. Asynchronous 2. Temporary Pacers <ul style="list-style-type: none"> a. Transcutaneous b. Transvenous c. Epicardial 3. Cardiac Resynchronization Therapy (CRT) 4. Pacemaker Malfunctions <ul style="list-style-type: none"> a. Failure to pace b. Failure to sense c. Failure to capture 5. Complications 6. Nursing Management & Teaching B. Implantable Cardioverter Defibrillator (ICD) <ul style="list-style-type: none"> 1. Defibrillation 2. Synchronized Cardioversion 3. ICD Indications & Considerations 	<p>Game Based Learning: Kahoot!</p> <p>Case Study Analysis</p> <p>Interactive Lecture: Group discussion on interpreting pacemaker rhythm strips</p> <p>Unfolding Case Study: Dysrhythmias & Pacemakers</p> <p>Case Study Analysis: Pacemaker Malfunction</p>	<p>Class Preparation: Dysrhythmia & Pacemaker Case Study</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"> 1. Set-up 2. Zeroing the Transducer 3. Leveling the Transducer <p>C. Nursing Management</p> <p>D. Types:</p> <ol style="list-style-type: none"> 1. Arterial Line <ol style="list-style-type: none"> a) Allen's Test b) Mean Arterial Pressure (MAP) 2. CVP 3. ScVO2 4. PA Lines <ol style="list-style-type: none"> a) PA Pressure b) Wedge Pressure 5. Other <ol style="list-style-type: none"> a) Cardiac Output b) Cardiac Index c) SVR & PVR <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>		