NURSING 101: FOUNDATIONS OF NURSING

UNIT VI: NURSING CARE OF PATIENTS WITH DISORDERS OF THE RESPIRATORY SYSTEM

UNIT OBJECTIVES

AT THE COMPLETION OF THE UNIT, THE STUDENT:

1. Relates the normal anatomy and physiology of the respiratory system.
2. Explains the importance of normal functioning of the respiratory system to the maintenance of life.
3. Explains the interrelationships of the respiratory system to other body systems.
4. Identifies respiratory defense mechanisms.
5. Discusses the effects of aging on the respiratory system.
6. Differentiates normal from abnormal characteristics of nursing assessment for the respiratory system.
7. Explains the purpose, significance, results, and nursing responsibilities of diagnostic studies for the respiratory system.
8. Describes the etiology, clinical manifestations, complications, and nursing responsibilities for the patient with disorders of the upper and lower respiratory systems.
9. Describes the physiology of the acid-base system in regulating respiratory status and explains the implications of alterations in acid-base balance.
10. Describes the process and purpose of arterial blood gas and demonstrates basic understanding of ABG interpretation.
11. Discusses risk factors and nursing care of patients with upper respiratory problems.
12. Discusses risk factors and nursing care of patients with lower respiratory problems.
13. Describes the impact of smoking and tobacco products on the respiratory and related systems.
14. Relates the principles of nicotine addiction to the care of patients with respiratory disorders.
15. Identifies medications used in the management of respiratory disorders.
16. Describes nursing care and education for patients receiving respiratory care medications.
17. Discusses risk factors and nursing care of patients with chronic obstructive pulmonary disease.
18. Discusses risk factors and nursing care of patients with asthma.

19. Relates principles of oxygen therapy devices and delivery methods.
20. Discusses risk factors and nursing care of patients with interstitial lung diseases.
21. Discusses risk factors and nursing care of patients with lung cancer.
22. Incorporates aspects of collaborative care with nursing management of patients with respiratory disorders.
23. Describes surgical interventions for disorders of the respiratory system.
24. Demonstrates knowledge of perioperative care and risk assessment for patients with surgical intervention for respiratory disorders.
25. Explains physiology of chest drainage devices.
26. Demonstrates nursing care and assessment of patients with chest drainage devices.

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
Unit VI: Respiratory Unit **Theory Hours- 16.0** **Clinical Hours- 7.0** I. The Respiratory Tract A. Review of the Anatomy and Physiology of the Respiratory Tract B. Review of Assessment C. Diagnostic Studies II. Upper Respiratory Tract A. Problems of Nose and Paranasal Sinuses i. Deviated Septum ii. Nasal Fracture iii. Nasal Surgery iv. Epistaxis v. Obstruction of Nose and Sinuses vi. Sleep Apnea vii. Allergic Rhinitis viii. Acute Viral Rhinopharyngitis ix. Influenza x. COVID-19 xi. Sinusitis B. Problems of the Pharynx i. Acute Pharyngitis C. Problems of the Larynx and Tracheal i. Laryngeal Polyps ii. Acute Laryngitis iii. Airway Obstruction D. Upper Respiratory Medications E. Head and Neck Cancer III. Lower Respiratory Tract A. Lower Respiratory Tract Infections i. Acute Bronchitis ii. Pertussis iii. Pneumonia iv. Tuberculosis v. Bronchiectasis	Interactive Lectures Game-based Learning: Kahoot Lung Sounds Game-based Learning: Bingo A&P Review Collaborative Learning: In-class upper respiratory case study Visual-based Learning: Head and Neck Cancer Survivor Video Game-based Learning: Kahoot Respiratory Medications	Clinical assignments of patients with disorders of the respiratory system, as available Class Preparation: Respiratory A& P Review Visual-based Learning: A&P Video Review, Registered Nurse.com (Supplemental Activity) Class Preparation: Respiratory Medications Visual-based Learning: Pneumonia Video Review, Nurse.com (Supplemental Activity) Pneumonia Care Plan Review, Nurse.com (Supplemental Activity) ATI: Pharmacology, Made Easy, Chapter 17	Pre & Post-Conference: Care of the patient with respiratory disorders Class Preparation Anecdotals Care Plans

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
vi. Pulmonary Fungal Infection vii. Lung Abscess viii. Pleurisy ix. Pleural Effusion B. Acid Base Imbalances i. Alterations in Acid-Base Balance ii. Respiratory Alkalosis iii. Respiratory Acidosis iv. Oxygenation v. Clinical Findings vi. ABG Interpretation	Collaborative Learning: Unfolding case studies: Pneumonia/TB/Pleural Effusion Interactive learning: ABG interpretation (Tic-Tac-Toe)	ABG Interpretation Instructions Basic Concepts of Acid/Base Imbalance (Supplemental Activity) ABG Case Studies (Supplemental Activity) Concept Map Study Guide (Supplemental Activity)	Quiz **Unit Exam**
Exam 1 IV. Respiratory Medications A. Bronchodilators B. Anti-inflammatory agents C. Leukotriene modifiers D. Mucolytics E. Immunomodulators F. Combination therapy G. Patient Teaching H. Medication delivery methods i. HHN ii. MDI iii. DPI	Interactive Learning: In-class review and application of ATI Medication Templates Psychomotor Learning: "Show and Tell" in class medication delivery devices	ATI: Pharmacology, Made Easy 4.0, 127-140	Class Preparation
V. Effects of Smoking VI. Obstructive Airway Disorders A. COPD B. Asthma C. Interstitial Lung Disease D. Lung Cancer	Visual-based Learning: Smoking Cessation Documentary	ATI: Adult Med-surg textbook/ebook resources COPD 136-141, Asthma 153-157 ATI: Adult Med-surg textbook/ebook resources Lung CA 706-708	Class Preparation
VII. Oxygen Therapy A. Principles of oxygen therapy B. Oxygen delivery devices i. Cannulas ii. Masks	Psychomotor Learning: "Show and Tell" in class oxygen delivery cannulas and masks with O_2 tanks	ATI: Adult Med-surg textbook/ebook resources Oxygen devices 129-132	

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
iii. Other C. Supportive care i. Breathing techniques ii. Chest percussion and vibration iii. Postural drainage iv. Airway clearance devices 1. Incentive Spirometry 2. Flutter Device 3. Acapella D. Nursing care of respiratory patients i. Patient education	Visual Learning: YouTube video “huff” breathing Classroom Assessment Technique: O-△-☐ ATI resource		
VIII. Surgical Procedures of the Chest and A. Thoracotomy i. VATS ii. Wedge Resection iii. Lobectomy iv. Wedge resection v. Bullectomy vi. LVRS vii. Transplant viii. Pleurodesis B. Nursing care of the respiratory surgical patient i. Pre-op teaching ii. Post-op care iii. Prevention of complications iv. Patient education C. Chest Drainage Systems i. Principles of chest drainage systems ii. Nursing care of patients with a chest tube	Psychomotor Learning: “Show and Tell” in class Atrium and Sahara dry-drainage systems Collaborative Learning – Clinical Judgement Simulation Manikin Assessments	ATI: Adult Med-surg textbook/ebook resources Chest tubes 123-127	Class Preparation Quiz **Unit Exam**
Exam 2			