

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
<p>Unit VI: Respiratory Unit Theory Hours- 15.0 Clinical Hours- 8.0</p> <p>I. The Respiratory Tract A. Review of the Anatomy and Physiology of the Respiratory Tract B. Review of Assessment C. Diagnostic Studies</p> <p>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</p> <p>III. Lower Respiratory Tract A. Lower Respiratory Tract Infections i. Acute Bronchitis ii. Pertussis iii. Pneumonia iv. Tuberculosis v. Bronchiectasis</p>	<p>Interactive Lectures</p> <p>Game-based Learning: Kahoot Lung Sounds</p> <p>Game-based Learning: Bingo A&P Review</p> <p>Collaborative Learning: In-class upper respiratory case study</p> <p>Visual-based Learning: Head and Neck Cancer Survivor Video</p> <p>Game-based Learning: Kahoot Respiratory Medications</p>	<p>Clinical assignments of patients with disorders of the respiratory system, as available</p> <p>Class Preparation: Respiratory A& P Review</p> <p>Visual-based Learning: A&P Video Review, Registered Nurse.com (Supplemental Activity)</p> <p>Class Preparation: Respiratory Medications</p> <p>Visual-based Learning: Pneumonia Video Review, Nurse.com (Supplemental Activity)</p> <p>Active learning: Sim differential diagnosis/Lower Resp. Tract Infections</p> <p>ATI: Pharmacology, Made Easy, Chapter 17</p>	<p>Pre & Post-Conference: Care of the patient with respiratory disorders</p> <p>Class Preparation</p> <p>Anecdotes</p> <p>Care Plans</p>

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<ul style="list-style-type: none"> vi. Pulmonary Fungal Infection vii. Lung Abscess viii. Pleurisy ix. Pleural Effusion B. Acid Base Imbalances <ul style="list-style-type: none"> i. Alterations in Acid-Base Balance ii. Respiratory Alkalosis iii. Respiratory Acidosis iv. Oxygenation v. Clinical Findings vi. ABG Interpretation 	<p>Collaborative Learning: Unfolding case studies: Pneumonia/TB/Pleural Effusion</p> <p>Interactive learning: ABG interpretation (Tic-Tac-Toe)</p>	<p>ABG Interpretation Instructions</p> <p>Basic Concepts of Acid/Base Imbalance (Supplemental Activity)</p> <p>ABG Case Studies (Supplemental Activity)</p> <p>ATI: Pharmacology, Made Easy 5.0</p>	<p>Quiz Unit Exam</p>
<p>Exam 1</p> <p>IV. Respiratory Medications</p> <ul style="list-style-type: none"> A. Bronchodilators B. Anti-inflammatory agents C. Leukotriene modifiers D. Mucolytics E. Immunomodulators F. Combination therapy G. Patient Teaching H. Medication delivery methods <ul style="list-style-type: none"> i. HHN ii. MDI iii. DPI 	<p>Interactive Learning: In-class review and application of ATI Medication Templates</p> <p>Psychomotor Learning: “Show and Tell” in class medication delivery devices</p>	<p>ATI: Adult Med-surg textbook/ebook resources COPD, Asthma</p>	<p>Class Preparation</p>
<p>V. Effects of Smoking</p> <p>VI. Obstructive Airway Disorders</p> <ul style="list-style-type: none"> A. COPD B. Asthma C. Interstitial Lung Disease D. Lung Cancer 	<p>Visual-based Learning: Smoking Cessation Documentary</p>	<p>ATI: Adult Med-surg textbook/ebook resources</p> <p>ATI: Adult Med-surg textbook/ebook resources Oxygen devices 129-132</p>	<p>Class Preparation</p>
<p>VII. Oxygen Therapy</p> <ul style="list-style-type: none"> A. Principles of oxygen therapy B. Oxygen delivery devices <ul style="list-style-type: none"> i. Cannulas ii. Masks 	<p>Psychomotor Learning: “Show and Tell” in class oxygen delivery cannulas and masks with O₂ tanks</p>	<p>ATI Skills Modules: Oxygen Therapy</p>	

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<p>iii. Other</p> <p>C. Supportive care</p> <ol style="list-style-type: none"> i. Breathing techniques ii. Chest percussion and vibration iii. Postural drainage iv. Airway clearance devices <ol style="list-style-type: none"> 1. Incentive Spirometry 2. Flutter Device 3. Acapella <p>D. Nursing care of respiratory patients</p> <ol style="list-style-type: none"> i. Patient education <p>VIII. Surgical Procedures of the Chest and</p> <p>A. Thoracotomy</p> <ol style="list-style-type: none"> i. VATS ii. Wedge Resection iii. Lobectomy iv. Wedge resection v. Bullectomy vi. LVRS vii. Transplant viii. Pleurodesis <p>B. Nursing care of the respiratory surgical patient</p> <ol style="list-style-type: none"> i. Pre-op teaching ii. Post-op care iii. Prevention of complications iv. Patient education <p>C. Chest Drainage Systems</p> <ol style="list-style-type: none"> i. Principles of chest drainage systems ii. Nursing care of patients with a chest tube <p>Exam 2</p>	<p>Visual Learning: YouTube video “huff” breathing</p> <p>Classroom Assessment Technique: O-△-□ ATI resource</p> <p>Psychomotor Learning: “Show and Tell” in class Atrium and Sahara dry-drainage systems</p> <p>Collaborative Learning – Clinical Judgement Simulation Manikin Assessments</p>	<p>ATI Engage Adult Medsurg – Respiratory System: Caring for the Client with a Chest Tube</p> <p>ATI: Adult Med-surg textbook/ebook resources Chest tubes</p>	<p>Class Preparation</p> <p>Quiz</p> <p>Unit Exam</p>