



Broward Community College

Course Outline

STATUS: A

COMMON COURSE NUMBER: NUR 2944C

COURSE TITLE: Respiratory Care For Nurses: Protocols

CLOCK HOURS: 2

CONTACT HOURS BREAKDOWN:

Lecture/Discussion 16

Lab 13

Other 24

Contact Hours/Week

CATALOG COURSE DESCRIPTION:

This course will focus on respiratory care protocols, suctioning and the proper maintenance of tracheostomy and endotracheal tubes.

Prerequisite:

Corequisite:

General Education Requirements - Associate of Arts Degree, meets Area(s): none

General Education Requirements - Associate in Science Degree, meets Area(s): none

UNIT TITLES:

1. Using Respiratory Care Protocols
2. Advanced Airway Care

I. Course Overview:

II. Units

Unit 1. Using Respiratory Care Protocols

General Outcome:

- 1.0 The student will demonstrate a working knowledge of three respiratory care protocols, specifically:
 - a. Weaning oxygen via pulse oximetry.
 - b. Converting nebulizer treatments to metered dose inhaler (MDI).
 - c. Adjusting respiratory care plan with the aid of medical necessity guidelines (MNG's).
- 1.1 Verbalize a knowledge of oxygen saturation in relation to oxygen content and PO₂.
- 1.2 State the normal range of oxygen saturation and factors which effect hemoglobin's affinity for oxygen.
- 1.3 Identify the limitations of pulse oximetry.
- 1.4 Demonstrate proper use of the Nellcor pulse oximeter.
- 1.5 List the types and causes of hypoxia.
- 1.6 List the signs and causes of hypoxia.
- 1.7 Adjust passive oxygen therapy
- 1.8 Differentiate the clinical advantages of delivering inhaled medications via nebulizer and MDI.
- 1.9 State the criteria required to assure effective delivery inhaled medications via MDI.
- 1.10 State the equivalent dosages of commonly prescribe inhaled medications when delivered via nebulizer and MDI.
- 1.11 State how MNG's may be used to modify the plan of care for the respiratory compromised patient.
- 1.12 List the indications for respiratory care procedures as found on the following MNG's: Oxygen therapy; Aeorsol therapy; Incentive spirometry; IPPB; CPT.
- 1.13 List the goals and objectives of the following respiratory care procedures: Oxygen therapy; Aerosol therapy; Incentive spirometry; IPPB, CPT.

Unit 2. Advanced Airway Care

General Outcome:

- 2.0 The student will show proficiency in airway suctioning via natural and artificial airways, including aspiration for specimen collection.
- 2.1 The student will demonstrated proper maintenance of tracheostomy and endotracheal tubes.
- 2.2 The student will demonstrate proper maintenance of transtracheal oxygen delivery devices.
- 2.3 The student will demonstrate proficiency in assisting with endotracheal intubation and extubation.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to

- 2.1 State the clinical indications for the goals and objectives of tracheal aspiration.
- 2.2 List the potential complications of airway suctioning.
- 2.3 Discuss the controversy on the use of normal saling lavage for tracheal aspiration.
- 2.4 Demonstrate safe and correct airway suctioning via natural airways, tracheostomy and endtracheal tubes, including pre and post assessment skills.
- 2.5 Demonstrate proper procedure for sputum collection via tracheal aspiration.
- 2.6 Identify the clinical indications for artificial airways, including specific indications for standard and specialty tracheostomy tubes.
- 2.7 Demonstrate minimal leak technique, stating safe cuff pressure ranges for cuffed artificial airways.
- 2.8 Identify ways to allow for speech in the tracheotomized patient, demonstrating proficiencies in working with each of the devices.
- 2.9 Identify the indications for the goals and objectives of transtracheal oxygen delivery systems.
- 2.10 State the potential complications associated with transtracheal oxygen catheters.
- 2.11 Demonstrate proper patient teaching and maintenance of transtracheal oxygen catheters/
- 2.12 List the responsibilities involved with assisting a physician in performing an intubation procedure.
- 2.13 Demonstrate proper extubation technique, including pre and post extubation assessment, care and monitoring.