

## **RCP 145 CLINICAL PRACTICE II**

### **COURSE DESCRIPTION:**

Prerequisites: RCP 110 and 132

Corequisites: RCP 111

This course provides entry-level clinical experience. Emphasis is on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. Medicated aerosol administration, pulmonary clearance mechanisms, and artificial airway maintenance are emphasized. Course Hours Per Week: Clinical, 15. Semester Hours Credit, 5.

### **LEARNING OUTCOMES:**

At the completion of the course requirements, the student will be able to:

- a. Perform chest physical therapy and postural drainage.
- b. Perform and understand the indications and hazards of Incentive Spirometry.
- c. Describe the indications, hazards, and mechanism of actions of the drugs currently administered by Respiratory Care Practitioners.
- d. Administer and be able to describe the indications for, hazards of, and equipment used in the delivery of aerosolized medications by small volume nebulizer.
- e. Administer and be able to describe the indications for, hazards of, and equipment used in the delivery of metered dose inhalers with and without spacing devices.
- f. Administer and be able to describe the indications for, hazards of, and equipment used to deliver of aerosols by intermittent positive pressure.
- g. Perform and describe the indications for, hazards of and equipment used to suction the artificial airway and the nasotracheal tube.
- h. Be able to identify and describe the applications of the types of artificial airways in current use.
- i. Demonstrate the proper technique for the drawing of an arterial blood gas sample.
- j. Describe the equipment used in the delivery of respiratory care in the home.
- k. Visit a pulmonary rehabilitation center.
- l. Obtain an EKG.
- m. Describe the basics of pulmonary function testing.

### **OUTLINE OF INSTRUCTION:**

- I. Chest physical therapy and postural drainage
  - A. Indications and hazards.
  - B. Techniques and positioning.
  - C. Special breathing exercises.

- II. Incentive spirometry
  - A. Indications and hazards.
  - B. Equipment.
  - C. Techniques.
  
- III. Respiratory pharmacology
  - A. Generic and brand names, indications, hazards, mechanisms of action, and standard doses of the following category of drugs used in Resp. Care:
    - 1.) Bronchodilators
    - 2.) Steroids and anti-inflammatory agents
    - 3.) Mucolytics
    - 4.) Anti-viral agents.
  
- IV. Small volume nebulizers:
  - A. Indications for use.
  - B. Techniques for administration.
  - C. Equipment.
  
- V. Metered dose inhalers
  - A. Indications for use.
  - B. Techniques for administration.
  - C. Equipment used including spacing devices.
  
- VI. Intermittent Positive pressure
  - A. Indications and hazards
  - B. Equipment: function of each of the controls.
  - C. Technique for administration
  
- VII. Endotracheal and nasotracheal suctioning
  - A. Indications and hazards
  - B. Equipment - sizing and use of suction catheters.
  - C. Technique of ETS and NTS
  
- VIII. Artificial airways
  - A. Oral and nasal airways-identify, indications, applications
  - B. Endotracheal tubes and tracheostomy tubes
    - 1.) Identify common types, standard markings, and components.
    - 2.) Indications and hazards
    - 3.) Insertion: appropriate position and cuff pressures.
  
- IX. Arterial blood gases
  - A. Interpretation.
  - B. Technique for drawing
  
- X. Home care
  - A. Duties of the home care RCP.
  - B. Equipment used in respiratory home care.

- XI. Pulmonary rehabilitation
  - A. Duties of the RCP in the pulmonary rehabilitation setting
- XII. Equipment and application of the EKG
- XIII. Pulmonary functions
  - A. Duties of the RCP in the pulmonary function laboratory
  - B. Techniques for the administration, and assessment of basic pulmonary function tests in the PFT laboratory

**REQUIRED TEXTBOOKS AND MATERIALS:**

Textbook to be selected by instructor

**STATEMENT FOR STUDENTS WITH DISABILITIES:**

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.