Course Outcome Summary

Required Program Core Course

RTH 226 – Respiratory Care Techniques IV

Course Information
Division: Health Sciences
Contact Hours: 3
Theory: 30
Lab: 15
Total Credits: 2

Prerequisites: RTH 214 – Adult Critical Care Management

Co-requisite: RTH 221 – Respiratory Care Clinical Practice IV

Course Description
This course covers a variety of diagnostic and therapeutic setting topics as a companion course to RTH 221. Goals, procedures and equipment associated with alternate sites includes advanced pulmonary functions, home care, pulmonary rehabilitation, sleep disorders, long-term acute care, and emergency management and preparing for mass casualty events.

This course is a required core course for students pursuing an Associate of Applied Science - Respiratory Therapy

Program Outcomes Addressed by this Course:
Upon successful completion of this course, students should be able to meet the program outcomes listed below:

A. Demonstrate the ability to gather, comprehend, evaluate, apply and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

Course Outcomes
In order to evidence success in this course, the students will be able to:

1. Describe components and clinical significance of advanced pulmonary function tests (PFTs).
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

2. Describe, compare, and contrast various tests used to determine functional residual capacity, DLCO, airway reactivity, ventilatory mechanics, airway resistance, and ventilation and perfusion.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

3. Describe quality assurance procedures in a diagnostic lab setting including calibration techniques.
   Applies To Program Outcome
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.
4. Discuss the general goals, methods and equipment associated with pulmonary stress testing, advanced pulmonary function testing, and polysomnograms.  
   **Applies To Program Outcome**
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

5. Discuss the general goals, methods and equipment associated with alternate site care including pulmonary rehabilitation, home care, LTAC, and sleep lab.  
   **Applies To Program Outcome**
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

6. Measure and calculate all standard volume and flow values from a forced vital capacity (FVC) curve.  
   **Applies To Program Outcome**
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

7. Interpret spirometric data acquired with the presence or absence of common pulmonary pathologies.  
   **Applies To Program Outcome**
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

8. Use all formulae previously presented in the respiratory therapy program to perform calculations related to the acquisition and manipulation of pulmonary function values.  
   **Applies To Program Outcome**
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.

9. Develop a respiratory care plan for patients in pulmonary rehabilitation, home care, asthma management, and smoking cessation.  
   **Applies To Program Outcome**
   A. Demonstrate the ability to gather, comprehend, evaluate, apply, and problem solve using empirical information relevant to his/her role as a competent Registered Respiratory Therapist.
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

10. Demonstrate and apply common respiratory care home care equipment including the education necessary for the patient.  
    **Applies To Program Outcome**
    B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.
11. Perform required skills associated with pulmonary rehabilitation including 6-minute walk, blood pressure, pulse oximeters, and others.

   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

12. Perform required skills associated with sleep disorders including lead placement and mask fitting.

   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

13. Perform required skills associated with tracheostomy care, decannulation, and transition to open stoma.

   Applies To Program Outcome
   B. Demonstrate the ability to perform the clinical and technical skills relevant to his/her role as a Registered Respiratory Therapist.

Date Updated: 1/30/2015
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