

RSPT 65: COMPUTER PATIENT SIMULATIONS

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2022
Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Selects appropriate tests and treatments to successfully pass all clinical simulations programs.
- Employs learned knowledge to successfully pass all clinical simulation programs

Description

Information gathering and decision making in the management of patients with acute and chronic respiratory conditions. Intended for students in the Respiratory Therapy program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

1. Obtain patient data, evaluate patient data and make recommendations
2. Manipulate equipment by order or protocol including infection and quality control
3. Initiate and modify therapeutic procedures
4. Show competence in managing various respiratory disorders by successfully completing information gathering and decision making segments of clinical simulations

Course Content

1. Review patient data and make recommendations
 - a. Patient history
 - b. Physical examination
 - c. Laboratory data
 - d. Pulmonary function results
 - e. Blood gas results
 - f. Imaging studies
 - g. Monitoring data
 - h. Cardiac monitoring
 - i. Maternal and perinatal/neonatal history and data
 - j. Sleep study results
 - k. Inspection, palpation, percussion and auscultation
 - l. Patient interview

- m. Patient's learning needs
 - n. Review radiographs
 - o. Perform procedures
 - p. Interpret procedure results
 - q. Recommend procedures to obtain additional data
2. Equipment manipulation, infection and quality control
 - a. Manipulate equipment by order
 - b. Ensure infection control
 - c. Perform quality control procedures
 3. Initiation and modification of therapeutic procedures
 - a. Maintain records and communicate information
 - b. Maintain a patent airway including care of artificial airways
 - c. Remove bronchopulmonary secretions
 - d. Achieve adequate respiratory support
 - e. Evaluate patient's response to respiratory care
 - f. Independently modify procedures based on patient response
 - g. Recommend modifications to the patient's care plan
 - h. Initiate, conduct or modify respiratory care techniques in an emergency setting
 - i. Act as an assistant to the physician performing special procedures
 - j. Initiate and conduct pulmonary rehabilitation and home care

Lab Content

1. The student will review patient data and make recommendations based on information such as:
 - a. Patient history
 - b. Physical examination
 - c. Laboratory data
 - d. Pulmonary function results
 - e. Blood gas results
 - f. Imaging studies including radiographs
 - g. Monitoring data and vital signs
 - h. Cardiac and hemodynamic monitoring
 - i. Maternal and perinatal/neonatal history and data
 - j. Sleep study results
 - k. Inspection, palpation, percussion and auscultation
 - l. Patient interview
 - m. Patient's learning needs
2. Based on data gathered the student will recommend the following:
 - a. Respiratory therapy procedures
 - b. Additional studies and lab work
 - c. Recommend other procedures to obtain additional data
3. The student shall be able to demonstrate equipment manipulation, infection and quality control such as:
 - a. Manipulate equipment by order
 - b. Ensure infection control
 - c. Perform quality control procedures
4. Initiation and modification of therapeutic procedures
 - a. Maintain records and communicate information
 - b. Maintain a patent airway including care of artificial airways
 - c. Remove bronchopulmonary secretions
 - d. Achieve adequate respiratory support
 - e. Evaluate patient's response to respiratory care

- f. Independently modify procedures based on patient response
- g. Recommend modifications to the patient's care plan
- h. Initiate, conduct or modify respiratory care techniques in an emergency setting
- i. Act as an assistant to the physician performing special procedures
- j. Initiate and conduct pulmonary rehabilitation and home care

Special Facilities and/or Equipment

1. Access to licensed software installed on PC computers in the library and in classroom.
2. When taught online, students must have access to a computer with internet access.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Computer administered and scored examinations

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Computer based learning

Representative Text(s) and Other Materials

Kacmarek, Stoller, and Heuer. [Egan's Fundamentals of Respiratory Care, 12th ed.](#) 2019.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

Interactive computer modules.

Discipline(s)

Respiratory Technologies