RSPC A276: CLINICAL LAB 3

Item	Value
Curriculum Committee Approval Date	12/06/2024
Top Code	121000 - Respiratory Care/Therapy
Units	4.5 Total Units
Hours	243 Total Hours (Lab Hours 243)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Pass/No Pass (B)

Course Description

Clinical application of procedures & concepts from RSPC A260, RSPC A270 and RSPC A275, continuing experience in the skills from RSPC A191 and RSPC A192. Includes ABG puncture & analysis, airway management, artificial airways, bronchial hygiene, bronchoscopy, ventilatory management, patient assessment, monitoring, & other therapeutic measures related to patient treatment. PREREQUISITE: RSPC A192. COREQUISITE: RSPC A270 and RSPC A265. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Apply advanced clinical skills to the Intensive Care Unit utilizing assessment skills, life support mechanical ventilation, pulmonary diagnostic and therapeutic modalities.

Course Objectives

- 1. Assess patient condition utilizing lab data, physical exam findings, and chest x-ray analysis. SCANS: Thinking
- 2. Perform arterial puncture (if clinical site allows). SCANS: Technology
- 3. Assist with (or perform) endotracheal intubation. SCANS: Technology
- 4. Monitor and adjust tracheal cuff pressures SCANS: Thinking, Technology
- 5. Safely and effectively suction the airway either through an artificial airway or nasotracheally. SCANS: Technology
- 6. Assist with bronchoscopy. SCANS: Technology
- 7. Initiate and monitor mechanical ventilation using various modes. SCANS: Thinking, Technology
- 8. Troubleshoot ventilators. SCANS: Thinking, Technology
- 9. Given patient data, make changes in the ventilator settings. SCANS: Thinking, Technology
- 10. Perform EKGs and monitor for arrhythmias. SCANS: Thinking, Technology
- 11. Recognize arrhythmias and recommend correct drug therapy. SCANS: Thinking
- 12. Wean patients from mechanical ventilation. SCANS: Thinking, Technology
- 13. Utilize ventilatory assist devices SCANS: Technology
- 14. Demonstrate and explain proper documentation of patient care. SCANS: Information
- 15. Demonstrate and maintain proper professional appearance and attitude. SCANS: Personal

Lecture Content

Topic 1: Orientation to the hospital Review of policies and procedures Legal documentation as required by the facility Patient assessment and basic care Utilize chest physical examination techniques Airway care for non-critical patients Participation in cardiopulmonary resuscitation Topic 2: Orientation to ICU Assessment of ICU patients (includes ABGs, physical exam and chest X-ray) Airway care and aerosol treatments on ICU patients Initiation of mechanical ventilation Topic 3: Monitoring and assessing patients on mechanical ventilation Observe and assist with bronchoscopy Trouble shooting ventilator problems Suction airways using different routes and equipment Topic 4: Patient assessment in the ICU and recommending changes in therapy Interaction with physicians Application and adjustment of PEEP and CPAP Application and adjustment of IMV Perform bedside ECGs Monitor the ECG and recognize normal and abnormal heart rhythms Participate in Advanced Life support using ventilatory and airway adjuncts Assist with artificial ventilation using bag-mask and/or demand valve Recommend and identify drugs used to treat arrhythmias Monitor and assess function of chest tube drainage Advanced assessment of critical ventilator care Adjust ventilators per assessment of patient data and condition Assure airway maintenance Assist with selection, insertion, and removal of artificial airways Patient assessment for weaning from mechanical ventilation Initiate and monitor Pressure Control, PCIRV, Pressure Support, HFV, BIPAP and any other modes utilized. Set up and monitor mechanical ventilators used in the home care setting

Lab Content

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Method(s) of Instruction

- Work Experience (20)
- Non-Directed Clinical (NDR)

Instructional Techniques

Instructional methodologies include a combination of technique demonstration and application to patient care, and individual activities along with discussion and instructor feedback.

Reading Assignments

Assignments from text

Writing Assignments

Written legal chart documentation.

Out-of-class Assignments

Clinical application of policies and procedures in a hospital setting

Demonstration of Critical Thinking

Critical thinking is developed through pre-therapy assessment, therapeutic technique, and analysis of patient response; also, written legal chart documentation.

Required Writing, Problem Solving, Skills Demonstration

Student evaluation is a combination of critiques of patient assessment skills, therapeutic techniques, verbal examinations, and written chart assignments. These methods are applied to each specific case and therapeutic modality performed throughout the course.

Textbooks Resources

1. Required Adelmann and Farrell. Respiratory Care Clinical Syllabus,, ed. Orange Coast College., 0 Rationale: -

Other Resources

1. stethoscope 2. OCC photo ID / clinical badge 3. Watch with second hand 4. Black scrubs embroidered with ALH OCC Respiratory Care Program emblem 5. RSPC A276 Clinical Skills Packet 6. Clinical Activities Log