RSPC A222: ADVANCED CLINICAL PRACTICE IN NEONATES

Item	Value
Curriculum Committee Approval Date	11/02/2022
Top Code	121000 - Respiratory Care/Therapy
Units	1 Total Units
Hours	72 Total Hours (Lab Hours 72)
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 experience in an affiliated neonatal intensive care unit under the supervision of licensed respiratory care practitioners and health care personnel. Emphasis on independent respiratory management and decision making when caring for the neonatal patient population. Professional growth and advanced skills are expected. PREREQUISITE: RSPC A212. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Apply advanced critical care assessment, therapeutic modalities and diagnostic techniques while caring for patients in the neonatal intensive care unit.

Course Objectives

- 1. Attend and assist in the deliveries of neonatal patients 30 wk and younger.
- 2. Demonstrate use of flow-inflating bag and T-piece resuscitator.
- 3. Perform advanced-level respiratory assessment and chest percussion on the small baby population, <30 weeks.
- 4. Assess and maintain a difficult airway.
- 5. Explain and manage the neonatal population on the following modalities: bubble CPAP, high flow oxygen, NIPPV, conventional and high frequency ventilation
- 6. Application of diagnostic, special and therapeutic procedures including: chest X-ray, surfactant administration, nitric oxide therapy and chest tube placement.
- 7. Coordinate and perform cares with nursing staff.

Lecture Content

Lecture Content: This is a clinical course, therefore there is no lecture content. Prior to clinical training, students will need to complete RSPC A212 and possess the required NRP and PALS pre-requisites outlined in RSPC A212. Laboratory Content: Clinical Training Perform under general supervision Return demonstrate to preceptor Demonstrate mastery of skills High-risk deliveries Flow inflating bag and T-piece resuscitator Advanced respiratory assessment on patients 30 wk and younger Chest percussion on small baby population Assessment and maintenance of difficult airway Manage neonates on modalities: bubble CPAP high flow oxygen NIPPV conventional and high frequency ventilation Participation in special procedures: surfactant administration nitric oxide therapy chest tube placement Perform cares with nursing staff Clinical Final Assessment Completion of self-evaluation Completion of all skill evaluations Completion of attitudinal / behavioral, physician contact, and grand rounds case study evaluations Verify completion of all clinical course documentation Daily evaluations Time and Attendance sheets

Method(s) of Instruction

- Field Experience (90)
- Non-Directed Clinical (NDR)

Instructional Techniques

1. Demonstration 2. Clinical practice under direct and general licensed supervision. 3. Performance analysis and critique by the clinical supervisor and preceptors. 4. Return skill demonstration.

Reading Assignments

1. Daily clinical evaluations 2. Clinical objectives 3. Knowledge of and familiarity with required competencies 4. Patient Case Studies

Writing Assignments

1. Daily clinical evaluations 2. Grand Rounds Case Study Presentation 3. Patient Case Studies 4. Self-evaluation

Out-of-class Assignments

1. Daily clinical evaluations 2. Clinical objectives 3. Grand Rounds Case Study Presentation 4. Patient Case Studies 5. Self-evaluation

Demonstration of Critical Thinking

Completion of patient case studies, grand rounds case study presentation, return skill demonstration of required competencies.

Required Writing, Problem Solving, Skills Demonstration

Daily clinical evaluations, self-evaluation, patient case studies, grand rounds case study presentation, return skill demonstration of required competencies.

Eligible Disciplines

Respiratory technician: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Respiratory technologies: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Walsh, B.. Neonatal and Pediatric Respiratory Care, 6th ed. Elsevier, 2023

Other Resources

1. Respiratory Care Programs RSPC A222 Clinical Manual Respiratory Care Programs RSPC A222 Skill Evaluations 2. Respiratory Care Programs RSPC A222 Clinical Manual Respiratory Care Programs RSPC A222 Skill Evaluations