

Course Objectives/Course Outline
Spokane Community College

Course Title: Pediatric/Neonatal Clinical

Prefix and Course Number: RT 424

Course Learning Outcomes:

By the end of this course, a student should be able to:

During this second clinical rotation, the student is expected to adhere to the student policies and grading timelines, while they observe, assist and apply, under direct supervision, all of the following:

- Display appropriate cognitive behavior, affective behavior and work ethic traits to include attendance per assigned clinical schedule
- Demonstrate steps in stabilizing and resuscitating the neonate and pediatric patients per NRP and PALS guidelines
- Select of appropriate equipment in a corresponding storage area for patient care
- Apply techniques for improving airway care by suctioning, mask/prongs/ETT, CPT and Chest X-Ray Review for tube placement and disease process
- Apply techniques for improving Oxygenation by HHFNC, Low and High Flow O₂ systems, PEEP, FIO₂, CPAP (nasal, mask and bubble), HFOV and paw, INO, Surfactant Replacement and ECMO
- Apply techniques to improve ventilation by EZPEP, targeted VT, f and/or Hertz, VE, Pressure Support and elimination of Dead space ventilation (VD/VT).
- Perform pediatric/neonatal ventilator monitoring including:
 - dynamic compliance
 - mean airway pressure
 - Oxygen Index with arterial blood results
 - Alarm settings to include apnea alarms
 - Waveform analysis
 - Equipment processing/circuit changes
 - Infection Control
- Demonstrate techniques for liberating patient from mechanical ventilation to include:
 - Pressure Control A/C or SIMV
 - Pressure Support
 - Spontaneous Breathing Trials
 - Non-invasive positive pressure ventilation
 - Extubation
 - Transport patient within the hospital using a bag/valve resuscitator or transport ventilator.
 - Draw and Analyze arterial, cord and capillary blood samples and suggest a modification in patient's therapy.
 - Maintain daily logs, weekly self-evaluations, of practice skills with perception of day activities/events and physician interactions
 - Maintain weekly self-evaluations with bi-weekly self-assessment of strengths and weaknesses, ventilator patient care plans, physician interactions, and preceptor evaluations.

- Function as an active member of the Health Care Team

Course Outline:

- I. Orientation to facility to include tour of Adult Critical Care Environment and Surgery, equipment storage areas, and Respiratory Care Department with log in sheets, excused absenteeism forms and timeline for notebook review
- II. Continuation of Electronic medical record keeping requirements
- III. Participating in Shift Reports and Time Management with assigned patient duties
- IV. Continued Chart Review for patients and appropriate documentation after therapy or transport
- V. Attending physician rounds and other physician interaction opportunities at bedside
- VI. Neonatal and Pediatric Patient Care Plans on specific patients with a ventilator flowsheet and reporting on high risk deliveries
- VII. Completion of performance skills, daily logs, weekly self-evaluations, patient care plans, physician interactions, preceptor evaluations, weekly and additional options leading to the final grade