

Course Objectives/Course Outline
Spokane Community College

Course Title: Pediatrics/Neonatal Technical Skills Lab

Prefix and Course Number: RT 411

Course Learning Outcomes:

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

- Perform Patient Physical assessment and Chart Review
- Evaluate Chest radiographs
- Apply Oxygenation, Aerosol therapy, Drug selection, Chest Physiotherapy, PEP/EzPEP techniques
- Perform Resuscitation (NRP and PALS)
- Perform Airway Management (Intubation, stabilization, suctioning)
- Evaluate when to use Noninvasive and Invasive monitoring techniques
- Analyze the results from UAC, cord gases and Capillary sticks
- Apply Noninvasive (NCPAP, Bubble CPAP) and Invasive (NAVA, Neopuff, Tidal Volume Targeting) forms of ventilation and oxygenation

Course Outline:

- I. Performing a patient assessment and scoring with APGAR and Silverman Anderson
- II. Chest X-rays for common diagnosis/conditions to include Respiratory Distress (RDS), Meconium Aspiration (MAS), Congenital heart and diaphragmatic Hernias, Pulmonary leaks/pneumothoracies, endotracheal tubes, umbilical lines and other conditions as they arise.
- III. Neonatal Resuscitation procedure/equipment/Mega Code with NRP completion Card
- IV. Pediatric yAdvanced Life Support procedures/equipment/Mega Code with PALS Card
- V. Respiratory Care Procedures
 - A. Oxygenation Therapy Devices
 - B. Blood Gas Results/interpretation/changes in patient plan of care
 - C. Aerosols and Medication Devices and delivery
 - D. Airway Clearance techniques with Suctioning, Chest Physiotherapy, oscillating vest and hyperinflation therapy in EzPAP
 - E. Continuous Positive Airway Pressure with nasal, mouth and bubble CPAP devices
 - F. Non-invasive mechanical ventilation or Invasive mechanical ventilation techniques, monitoring and assessment
 - G. Pediatric ventilator management (transition to a home care ventilator)