

Off-Service Pediatric Critical Care Rotation Objectives

Medical Expert:

Knowledge:

- The anesthesia resident will be able to identify neonates requiring resuscitation and describe standards for neonatal resuscitation
- The resident will be able to recognize common neonatal surgical emergencies, their epidemiology and presentation and will be able to propose appropriate anesthetic management
- The resident will be able to identify common pediatric critical care problems (respiratory, fluid and electrolyte, circulatory, trauma and metabolic problems). The resident will be able to propose management plans in both the PCCU and the OR. Recognition of possible complications associated with management and underlying patient conditions should also occur.
- The resident will be able to describe the pathophysiology of common causes of critical illness in children
- The resident should be able to understand different modes of ventilation in critically ill pediatric patients including use of oscillator, indications/contraindications of nitric oxide and surfactant in acute respiratory failure

Skills:

- The resident will acquire technical skills in the following procedures:
 - Peripheral intravenous access
 - Umbilical artery/vein cannulation
 - Neonatal and pediatric airway management
 - Resuscitation of critically ill child
 - Thoracocentesis and chest tube placement
- The resident will be able to provide neonatal resuscitation as well as provide a leadership role in neonatal resuscitation by a team

Communicator:

- Establishes a therapeutic relationship with the patient and families
- Effectively obtains relevant information from all sources and communicates to the team
- Be aware of the unique stressful environment of the Pediatric Critical Care Unit
- Establishes good relationships with peers and other health care professionals

Collaborator:

- To communicate effectively with all health care professionals including allied health professionals
- Recognizes and acknowledges the roles of different health care providers
- Should be able to manage conflict well
- Contributes productively to interdisciplinary activities

Manager:

- Understands and makes effective use of information technology such as methods for searching medical databases
- Makes cost-effective use of health care resources based on sound judgment

Health Advocate:

- The resident will be able to recognize and respond to situations where patient advocacy is needed, such as:
 - Be able to recognize preventive measures in status asthmaticus patients
 - Advocate for organ donation, etc.

Scholar:

- Partake in the academic activities in the PCCU
- Be able to critically appraise medical information
- May be expected to teach airway management skills to the junior house-staff

Professional:

- Demonstrate integrity, compassion and respect for diversity
- Fulfills medical, legal and professional obligations of the specialist
- Demonstrate reliability and conscientiousness