CanMEDS Rotation Objectives – Pediatric Intensive Care
RCPS Emergency Medicine Residency Program
Department of Emergency Medicine
University of Alberta

*While all objectives may not be accomplished in a single rotation, the aim is for the resident to actively seek learning opportunities to fulfill these objectives while on a particular rotation. Many of these objectives will overlap with other rotations. By the end of the residency program, all objectives should be covered.

Medical Expert
The learner should:
- Develop clinical assessment of the critically ill child
- Develop appropriate differential diagnoses in the critically ill child
- Develop knowledge of pharmacology of critical care agents
- Develop the ability to identify problems and issues in the critically ill
- Develop the ability to lead pediatric resuscitations (real OR simulated)
- Develop an understanding of principles of children with:
  - Multisystem disease and failure
  - Sepsis
  - Cardiopulmonary instability and respiratory distress
  - Acid-base disorders
  - Fluid and electrolyte disorders
  - Seizures and status epilepticus
  - Major trauma
  - Congenital heart disease
- Develop an understanding of principles of hemodynamic monitoring in children

The learner should gain experience in the following technical skills:
- Noninvasive hemodynamic monitoring
- Mechanical ventilation management

The learner should gain knowledge of, and where applicable, experience in the following technical skills:
- Central venous access
- Invasive hemodynamic monitoring
- Airway management
- Tube thoracostomy
- Intraosseus access
- Lumbar puncture

Communicator
The learner should develop communication skills to:
- Communicate effectively with patients and families
- Keep accurate and efficient records

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Collaborator
The learner should strive to:
  • Recognize the roles of and interact effectively with other physicians and health care workers

Leader
The learner should strive to:
  • Recognize the need for Pediatric Intensive Care admission
  • Demonstrate an awareness of the ethical and appropriate use of critical care resources
  • Develop team leadership skills

Health Advocate
The learner should strive to:
  • Respect patient and family wishes for resuscitation and life support measures
  • Understand when and how to advocate appropriate on behalf of patients
  • Understand the determinants of health and their impact on patients

Scholar
The learner should develop:
  • Proficiency in critical appraisal of the literature
  • The ability to apply current literature into daily practice

Professional
The learner should:
  • Demonstrate integrity and honesty
  • Demonstrate compassion and respect in all patient encounters
  • Learn and apply ethical principles appropriately
  • Be aware of personal limitations and seek assistance when appropriate