

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
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- 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
- Intraosseous access
- Lumbar puncture

Communicator

The learner should develop communication skills to:

- Communicate effectively with patients and families
- Keep accurate and efficient records

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