

**Dalhousie University Family Medicine Enhanced Skills
In Emergency Medicine (Dal ESEM)**



**Clinical Learning Experience (CLE) IN
PEDIATRIC EMERGENCY MEDICINE**

GENERAL

The Pediatric Emergency CLE will focus on consolidating skills and knowledge to manage emergent conditions with an emphasis on communication with pediatric patients, families and other consultants.

Residents will be responsible for the evaluation, investigation and management of patients presenting to the pediatric ED.

The secondary objective of the Pediatric Emergency rotation is to facilitate the resident's growth as a senior resident with commensurate increases in responsibility and emphasis on management of departmental resources and pediatric patient disposition.

Resident independence and responsibility will be graded according to resident training level and ability.

Residents will lead the evaluation and resuscitation of unstable patients under the direct supervision of the attending Emergency Physician.

Objectives for clinical experiences/rotations are listed as key competencies. Clinical experiences will be supplemented by the academic core curriculum, simulation and cadaver labs (utilizing clinical grade cadavers).

MEDICAL EXPERT

1. To possess scientific and clinical knowledge necessary to prioritize, assess and manage multiple pediatric patients with undifferentiated illness or injury.
2. To develop skills with pediatric clinical assessment.
3. To demonstrate a skilled physical exam.
4. To develop appropriate differential diagnoses.
5. To exhibit appropriate knowledge of diagnostics.
6. To exhibit appropriate knowledge of therapeutics.
7. To accurately identify problems in the pediatric emergency patient.
8. To develop an approach to resuscitation situations.
9. To perform a complete evaluation of a pediatric patient, including a history and physical that is appropriate for the emergency department.
10. To use sound clinical reasoning and judgement to guide diagnosis and management. To arrive at consistently appropriate decisions even in circumstances where complete clinical or diagnostic information is not immediately available.
11. To demonstrate knowledge in the management of:
 - 11.1 Trauma.
 - 11.2 Environmental injuries.
 - 11.3 Toxicology/hazardous materials exposure.
 - 11.4 Child abuse/neglect.

- 11.5 Sexual assault.
- 11.6 Febrile child at different ages.
- 11.7 Septic child.
- 11.8 Respiratory emergencies.
- 11.9 Fluid and electrolyte disturbances.
- 11.10 Feeding problems.
- 11.11 Irritable child.
- 11.12 Seizures.
- 11.13 Normal growth and development.
- 12. Technical Skills – to develop technical skills in the following:
 - 12.1 Airway management.
 - 12.2 Tube Thoracostomy.
 - 12.3 Hemodynamic monitoring and therapeutics.
 - 12.4 Central vascular access.
 - 12.5 Use of analgesics/anaesthesia and procedural sedation.
 - 12.6 Lumbar puncture.
 - 12.7 Fracture/dislocation reduction.
 - 12.8 Incision and drainage of abscesses.
 - 12.9 Wound management.
 - 12.10 Foreign body removal.
 - 12.11 Other procedures.

COMMUNICATOR AND COLLABORATOR

1. To understand how to communicate effectively with pediatric patients according to their age.
2. To communicate effectively with the caregivers/family.
3. To understand and demonstrate patient-centered orientation.
4. To involve patient & family in management plan.
5. To understand and demonstrate appropriate patient/family-physician boundaries.
6. To apply legal and ethical principles appropriately.
7. To ascertain and respond appropriately to patients' psychosocial issues.

MANAGER

1. To understand the role of pediatric emergency departments in the community.
2. To recognize the roles of, and interact effectively with other specialty consultants.
3. To demonstrate the ability to effectively work within a multi-disciplinary team.
4. To demonstrate the ability to effectively approach uncertainty and ambiguity.
5. To demonstrate team-based leadership skills.
6. To be aware of personal limitations and appropriately seeks assistance.
7. To follow through on commitments.
8. To understand the principles of regional trauma/disaster medicine.
9. To understand the principles of organ donation and procurement.
10. To effectively manage externally referred patients.
11. To understand the principles of providing EM support to family physicians/pediatricians.
12. To provide appropriate advice to external physicians seeking Emergency Department consultation.

HEALTH ADVOCATE

1. To demonstrate patient advocacy and respect for personal directives.
2. To understand and apply patient-centered care in the acutely injured patient.
3. To understand the role of ethics in treatment decisions in the critically injured patient.
4. To understand the importance and role of support services in the patient including social work, clergy, physiotherapy, occupational therapy.
5. To understand the importance of cultural awareness and sensitivity in care of the patient.

SCHOLAR

1. To provide accurate and organized documentation of patient care.
2. To demonstrate skill in using and critically appraising evidence.
3. To understand the principles of quality assurance/improvement.
4. To demonstrate initiative and self-directed learning.
5. To effectively manage time for learning and patient care.
6. To teach junior learners effectively.
7. To demonstrate the effective and ethical use of ED resources.
8. To demonstrate understanding of the principles of triage and appropriate resource allocation.
9. To appropriately use relevant community and hospital resources.
10. To effectively manage ED human and physical resources.
11. To effectively use ED information technology for patient care.
12. To appropriately use diagnostic imaging and laboratory services.
13. To recognize situations when patients require hospital admission.
14. To recognize situations when FM or specialty consultation is required.
15. To arrange appropriate outpatient follow-up and consultation.
16. To manage multiple patients simultaneously, effectively and safely.
17. To understand the principles of ED security and safety of ED personnel.
18. To understand the principles of patient flow and ED overcrowding.
19. To understand the principles of risk management in the ED setting.
20. To recognize issues of child safety in the home and in public places.

Professional

1. To be punctual, reliable, and consistent in the management of emergent patients.
2. To be empathetic and patient-centered in the care of the acutely injured patient.
3. To be respectful and professional in all interactions with the patient, family, trauma team, consultants and support staff within the hospital and within the emergency department.
4. To recognize the importance of behaving in an ethical and professional manner at all times.

APPENDIX I

General

- To describe the unique anatomic, physiologic and developmental characteristics of neonates, infants, children and adolescents that impact on the successful delivery of emergency medical care.
- To identify normal physiologic and developmental parameters for children of all ages.

i) Scientific and Clinical Objectives

Pediatric Resuscitation

1. To describe, categorize by age group and provide emergency management for conditions causing cardio-respiratory failure/arrest in children.
2. To identify clinical and laboratory indicators of dehydration in children. To calculate appropriate fluid/electrolyte replacement and initiate an oral or intravenous rehydration regimen.