



MCMASTER UNIVERSITY: CCFP(EM) RESIDENCY TRAINING PROGRAM

Objectives: Pediatric Emergency Medicine Rotation

1. Medical Expert

- a. Demonstrate diagnostic and therapeutic skills for ethical and effective patient care.
- b. Access and apply relevant information to clinical practice.
- c. Demonstrate effective consultation services with respect to patient care, education and legal opinions.
- d. The Emergency Medicine Resident will demonstrate knowledge regarding:
 - i. Growth and development milestones of children
 - ii. Clinical measurements of dehydration/volume depletion
 - iii. Causes/forms/pathophysiology of fluid and electrolyte disorders
 - iv. Calculations for correction of fluid and electrolyte disorders
 - v. Calculation for correction of acid/base abnormalities
 - vi. Pharmacology/dosage calculation for resuscitation drugs
 - vii. Pathophysiology of acute paediatric disorders by body system
 - viii. Etiology and complications of common congenital/developmental syndromes
 - ix. Pathophysiology/pharmacokinetics of toxicological syndromes
 - x. Pharmacology/dosage for antidotes
 - xi. Pathophysiology of infectious disorders
 - xii. Pharmacology/dosage for antibiotics
 - xiii. Immunization: timing, efficacy and side effects
 - xiv. Causes for immune-deficient/compromised child
 - xv. Prophylaxis for infectious diseases
 - xvi. Presentation of anaemia and purpura
 - xvii. Presentation of common malignancies

- xviii. Access to social agencies for psychosocial disorders
- xix. Risk factor in child abuse/deprivation/family dysfunction
- xx. Reporting responsibilities of the Child Protection Act

e. The Emergency Medicine Resident will:

- i. Perform a clinical assessment and collect all appropriate information in an ill/injured child
- ii. Screen patients for procedural sedation and for appropriate patients, administer procedural sedation in a safe, monitored environment
- iii. Develop differential diagnoses of specific clinical presentations in the infant/child
- iv. Initiate management of acute disorder of body systems, toxicological syndromes, and infectious disorders
- v. Initiate management of child abuse/deprivation/family dysfunction
- vi. Choose the laboratory and radiological investigations appropriate to the immediate need of the critically ill/injured child
- vii. Recognize common congenital/developmental syndromes
- viii. Recognize and measure normal and abnormal vital signs
- ix. Recognize and treat symptoms of:
 - 1. Airway obstruction
 - 2. Abnormal Ventilation
 - 3. Volume depletion
 - 4. Burns
 - 5. Trauma
- x. -Initiate resuscitation in a neonate/infant/child
- xi. -Initiate management of single system or multiple trauma

f. Techniques:

- g. -Perform manipulative and diagnostic procedures required for the ill/injured child
 - i. Arterial access
 - ii. Chest decompression

- iii. CPR/airway management
- iv. Dental trauma
- v. Foreign bodies
- vi. External auditory canal curettage
- vii. Fracture reduction and immobilization
- viii. Gastric lavage
- ix. Lumbar puncture
- x. Venous access
- xi. Intraosseous access
- xii. Wound management

2. Communicator

- a. Communicate effectively and compassionately with the patient and family
- b. Establish therapeutic relationships with patients/families.
- c. Obtain and synthesize relevant history from patients/families/communities.
- d. Listen effectively.
- e. Discuss appropriate information with patients/families and the health care team.

3. Collaborator

- a. Understand the importance of a multidisciplinary team and interact effectively with physicians, nurses, and other health professionals
- b. Consult effectively with other physicians and health care professionals.
- c. Contribute effectively to other interdisciplinary team activities.

4. Manager

- a. Allocate finite health care resources wisely.
- b. Understand the basic principles of quality assurance/risk management issues
- c. Utilize information technology to optimize patient care, life-long learning and other activities
- d. Utilize resources effectively to balance patient care, learning needs, and outside activities.
- e. Work effectively and efficiently in a health care organization.

5. Health advocate

- a. Bioethical issues
- b. Identify the important determinants of health affecting patients.
- c. Contribute effectively to improved health of patients and communities.
- d. Understand various approaches to health care advocacy and policy change
- e. Recognize and respond to those issues where advocacy is appropriate.

6. Scholar

- a. Apply best practice to patient care decisions, based on critical appraisal of relevant literature.
- b. Contribute to development of new knowledge.
- c. Demonstrate the skills of self-assessment and self-directed learning by identifying their own areas of improvement and addressing them with resources available.
- d. Develop, implement and monitor a personal continuing education strategy.
- e. Facilitate learning of patients, medical trainees/students and other health professionals.

7. Professional

- a. Deliver highest quality care with integrity, honesty and compassion.
- b. Demonstrate the maturity and responsibility expected of all professionals
- c. Exhibit appropriate personal and interpersonal professional behaviours.
- d. Practice medicine ethically consistent with obligations of a physician.

For questions or comments, please contact:

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