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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