

MCMASTER UNIVERSITY  
CCFP(EM) RESIDENCY TRAINING PROGRAM

**OBJECTIVES: ORTHOPAEDIC SURGERY 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. Principles of anatomy/ physiology of the musculoskeletal system
  - ii. Mechanisms of injury in trauma to specific anatomical areas
  - iii. Principles of healing in bone, tendon, muscle, and ligament us injuries
  - iv. Pathogenesis/pathophysiology of infectious/inflammatory disorders of the musculoskeletal system
  - v. Presentation of syndromes of the axial, visceral, and appendicular skeleton
  - vi. Presentation of syndromes of muscle disorders
  - vii. Principles of pharmacological agents in musculoskeletal/rheumatologic disorders
  - viii. Classification of fractures/dislocation
  - ix. Manifestations of trauma in paediatrics
  - x. Manifestation of musculoskeletal syndromes in paediatrics
  - xi. Manifestation of injuries in the athlete
  - xii. Early/late sequelae of injuries to the musculoskeletal system
  - xiii. Principles of emergency department management of fractures and dislocation
  - xiv. Complications of immobilization
- e. The Emergency Medicine Resident will:
  - i. Perform a clinical assessment and collect all appropriate information
  - ii. Evaluate specific symptoms and signs that occur in:
    1. Disease states
    2. Injury to the musculoskeletal system
  - iii. Select the most appropriate imaging and laboratory investigations for the identification of:
    1. MSK injuries
    2. Occult fractures
    3. Compound fractures
    4. Pathological fractures

- iv. Assess the risk of associated injuries in patients with multiple trauma or trauma to defined anatomical areas
- v. Set the priorities and direct the initial management of the multiply traumatized patient
- vi. Demonstrate the following techniques:
  - 1. Stabilization of fractures and dislocations pending investigations
  - 2. Reduction of simple fractures and dislocations
  - 3. Immobilization of axial and appendicular fractures
  - 4. Joint aspiration

## **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 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 in Medical-legal aspects of patient care
- c. Utilize information technology to optimize patient care, life-long learning and other activities
- d. Utilize resources effectively to balance care, learning needs and outside activities.
- e. Work effectively and efficiently in a health care organization

## **5. Health Advocate**

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

## 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 within the community

## 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:

Erich Hanel, MB, MSc, CCFP(EM), ABFM  
Program Director  
Email: [erich.hanel@mcmaster.ca](mailto:erich.hanel@mcmaster.ca)

Melissa Hymers  
Program Coordinator  
Email: [hymers@mcmaster.ca](mailto:hymers@mcmaster.ca)

CCFP – Emergency Medicine Residency Training Program  
Division of Emergency Medicine  
Department of Family Medicine  
Hamilton General Hospital  
McMaster Wing, Room 250  
237 Barton St East  
Hamilton, ON Canada L8L 2X2  
905-521-2100 x73547  
Fax: 905-577-8247