



MCMASTER UNIVERSITY:
CCFP(EM) RESIDENCY TRAINING PROGRAM

Objectives: ICU/ CCU/ PICU 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. Resuscitation
 - ii. Cardiovascular disease
 - iii. Invasive monitoring
 - iv. Fluid resuscitation
 - v. Management of a cardiac arrest team
 - vi. Multi-system disease and failure
 - vii. Mechanical ventilation in the critically ill
 - viii. Disease processes necessitating admission to a critical care unit (trauma, toxicology, environmental, etc)
 - ix. The pharmacology of resuscitation and critical care
- e. The Emergency Medicine Resident will:
 - i. Perform a clinical assessment and collect all appropriate information
 - ii. Document progress of a patient's clinical condition
 - iii. Develop the appropriate differential diagnosis of specific clinical presentations
 - iv. Ascertain the need for admission/transfer to critical care units
 - v. Coordinate members of the health care team in the emergency and critical care units in developing priorities of investigation and management
 - vi. Develop discharge plans for critical care patients

vii. Choose the laboratory and radiological investigations appropriate to the immediate need of the critically ill/injured patient

viii. Interpret data collected from laboratory and radiological investigations

ix. Interpret data from non-invasive and invasive monitoring

x. Initiate the resuscitation, stabilization, and investigation of the seriously ill

xi. Demonstrate the following techniques:

1. ECG interpretation

2. Defibrillation/cardioversion

3. Central venous access

a. Swann-Ganz insertion

4. Arterial access

a. Arterial monitoring

5. Pericardiocentesis

6. Pacemaker insertion

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 and 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 patient 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.

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.
- e. Demonstrate understanding of the following;
 - i. "end of life" care and how it is applied in the critical care setting.
 - ii. the role of substitute decision maker and how this is applied to the care of the incapacitated patient.
 - iii. how consent and decision making in the PICU for pediatric patients is different in the critically ill child.

For questions or comments, please contact:

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