# Anesthesia Undergraduate Education

## Learning Objectives

### Medical Expert

As Medical Experts, physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills and professional attitudes in their provision of patient-centered care.

- Pre-op assessment
- Intraoperative management
- Optimization
- Pain management and recovery

- Describe the principles of a preoperative assessment including an airway examination and apply this knowledge in a clinical setting.
- Discuss the principles of intravenous therapy and perform intravenous access on a patient using a sterile technique.
- Formulate a differential diagnosis of hypoxemia and describe the delivery of oxygen in the health care setting.
- Describe a basic general anesthetic technique and commonly used pharmacologic agents including their mechanism of action.
- Discuss the basic principles of airway management in the unconscious patient.
- Perform bag, mask ventilation and intubation of the trachea in a simulated environment and clinical setting.
- Formulate an approach for the management of acute pain and describe basic analgesic options including the World Health Organization Pain Ladder.

### Communicator

Physicians effectively facilitate the doctor-patient relationship and the dynamic exchanges that occur before, during, and after the medical encounter.

- Establish rapport, trust and a therapeutic relationship with patients and families
- Listen effectively
- Elicit relevant information and perspectives of patients, families, and the health care team
- Convey relevant information and explanations to patients, families and the health care team
- Convey effective oral and written information about a medical encounter
- Maintain clear, accurate, appropriate, and timely records of clinical encounters/operative procedures
- Address challenging communication issues effectively
- Addressing anger, confusion and misunderstanding using a patient centric approach

### Collaborator

Physicians effectively work within a healthcare team to achieve optimal patient care.

- Demonstrate a team approach to health care
- Recognize and respect the diversity of roles, responsibilities, and competences of other health professionals in the management of the surgical patient
- Work with others to assess, plan, provide, and integrate care of the surgical patient

### Leader

Physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.

- Employ information technology appropriately for patient care
- Allocate finite health care resources appropriately

### Health Advocate

Physicians responsibly use their expertise and influence to advance the health and well-being of individual patients, communities and populations.

- Concern for the best interest of patients
- Identify health needs of individual patients, and advocate for the patient, where appropriate
- Promote and participate in patient safety, including the Surgical Safety checklist

### Scholar

Physicians demonstrate a lifelong commitment to reflective learning, as well as the creation, dissemination, application and translation of medical knowledge.

- Demonstrate the ability for continuing self-learning
- Discuss the principles of general/medical physiology and the application of basic sciences to anesthesiology

### Professional

As Professionals, physicians are committed to the health and well-being of individuals and society through ethical practice, profession-led regulation, and high personal standards of behaviour.

- Exhibit professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Demonstrate a commitment to delivering the highest quality care
- Recognize and respond appropriately to ethical issues encountered in practice
- Recognize and respect patient confidentiality, privacy and autonomy
- Manage conflicts of interest and maintain appropriate relations with patients
- Demonstrate awareness of industry influence on medical training and practice
- Recognition of personal and clinical limitations