

# Canmeds Objectives of Training and Specialty Requirements In Obstetrics & Gynaecology ICU Rotation 2017

Two levels of knowledge of knowledge and proficiency are referred to in this document.

An *extensive level* refers to an in-depth understanding of an area, from basic science to clinical application, and possession of skills to manage independently a problem in the area.

A *working level* indicates a level of knowledge sufficient for the clinical management of a condition, and/or an understanding of an approach or technique sufficient to counsel and recommend it, without having personally achieved mastery of that approach or technique.

## ICU Rotation

### 1. Medical Expert/Clinical Decision-Maker

- i. Knowledge: General Clinical
  - Demonstrate diagnostic and therapeutic skills for ethical and effective patient care.
  - Follow protocols implemented in the unit and adhere to established unit standards.
  - Learn the differences in history and physical examination in critically ill patients
  - Understand the use and limitations of investigations commonly used in the ICU
- ii. Knowledge: Specific Clinical Problems
  - Improve their knowledge base in the ability to recognize, resuscitate and stabilize patients sustaining or at risk of cardiopulmonary arrest or other life threatening disturbances.
  - Improve their knowledge of applied clinical physiology and homeostasis and the ability to recognize, prevent and treat single or multiple organ failure
  - Improve their basic understanding of physiology, pathophysiology, and pharmacology as they pertain to the critically ill patient.
  - Select medically appropriate investigative tools, interpret the results of common diagnostic tests and demonstrate an understanding of their cost effectiveness, limitations and complications.
  - Acquire skills in interpretation of
    - a. Common rhythm disturbances

- b. Interpretation blood gases and assess acid-base status
- c. Basic ventilator orders
- d. Interpretation of chest imaging
- e.

The resident must be able to demonstrate a **working knowledge** in the following areas :

CNS:

- i. Recognition of patients with and causes of altered levels of consciousness
- ii. Seizure disorders and status epilepticus

CVS:

- iii. Causes and management of cardiac failure, and hypertensive emergencies.
- iv. Invasive and non-invasive hemodynamic monitoring
- v. Basic use of inotropes and vasopressors

Pulmonary:

- vi. Acute and chronic respiratory failure
- vii. Airway management and indications for intubation
- viii. Basic ventilatory support and monitoring parameters.

Shock:

- ix. Classification of shock and outline hemodynamic patterns

Renal:

- x. Cause of acute and chronic renal failure
- xi. Monitoring, preventing and recognizing renal failure when it occurs.

Immune

- xii. Investigation, monitoring, and treatment of infection, sepsis, and septic shock states.

GI

- xiii. Recognition, investigation and management of GI bleeds, ischemia, obstruction, infection, perforation, liver dysfunction.

Endocrine

- xiv. Knowledge of stress states in the critically ill patient
- xv. Improve knowledge on nutritional/ electrolyte support of critically ill patients.

Causes for multi-system failure

Critical illness in pregnancy:

- xvi. Improve ability to investigate, diagnose and manage a peri-partum or pregnant woman suffering from a critical illness.
- xvii. Improve knowledge of maternal cardiovascular, respiratory and renal physiology during pregnancy
- xviii. Improve ability to diagnose and manage specific pregnancy related diseases including:
  - 1. pre-eclampsia /eclampsia
  - 2. HELLP syndrome
  - 3. pulmonary disorders
  - 4. cardiac disorders including Peripartum Cardiomyopathy
  - 5. acute renal and hepatic failure including Acute Fatty Liver of Pregnancy
  - 6. Amniotic Fluid Embolism
  - 7. DIC
- f. Management of End of Life Issues
  - i. Understanding DNR orders

iii. Knowledge: Technical

The resident should gain skills in the following procedures:

- Basic airway management (bag/mask ventilation and uncomplicated intubation)
- Insertion of central venous catheters
- Insertion of arterial lines
- Insertion of chest tubes

## 2. Communicator

- i. General Requirements: The resident will:
  - Establish a professional relationship with patients and families
  - Obtain and collate relevant history from patients and families
  - Listen effectively
  - Discuss appropriate information with patients, families, and other members of the health care team.
- ii. Specific Requirements: The resident will:
  - Personally examine and review each of their assigned patients before morning rounds
  - Able to present the history and physical findings of critically ill patients to the attending physician in an organized and concise manor
  - Identify the problems in a critically ill patient and generate a problem list and outlining a plan to address each problem identified.
  - Communication with other health care professionals regarding all aspects of patient care

- Assess, communicate with, and support patients and families confronted with critical illness.
- Explain life-sustaining therapies, in clear language, and describe the expected outcome of such therapies in view of the patient's goals and wishes.
- Demonstrate respect and understanding for the role of other team members in communicating and facilitating decision-making with critically ill patients and their families.
- Communicate effectively with families who may be dysfunctional, angry, confused, or litigious.
- Explain the concept of brain death and organ donation, in clear language.

### **3. Collaborator**

- i. General Requirements: The resident will:
  - Consult effectively with other physicians and health care professionals
  - Contribute effectively to other interdisciplinary team activities
- ii. Specific Requirements: The resident will:
  - Develop an ability to work effectively and harmoniously with other health care workers.
  - Effectively participate in interdisciplinary rounds, demonstrating the ability to accept, consider and respect the opinions of other team members, while contributing personal specialty-specific expertise.
  - Identify the role, expertise and limitations of all members of an interdisciplinary team required to optimally achieve a goal related to patient care.

### **4. Leader**

- i. General Requirements: The resident will:
  - Utilize personal resources effectively in order to balance patient care, continuing education, and personal activities.
  - Improve knowledge on the allocation of finite health care resources.
  - Utilize information technology to optimize patient care and life long learning.
- ii. Specific Requirements: The resident will:
  - Utilize appropriate time management for effective patient care, administrative duties and scholarly activities.
  - Able to complete tasks discussed on rounds in a timely manor seeking help appropriately.
  - Able to identify personal limitations and seek help appropriately.

### **5. Health Advocate**

- i. General Requirements: The resident will:

- Identify the important determinants of health affecting patients
  - Contribute effectively to improve health of patients and communities
- ii. Specific Requirements: The resident will:
- Respect and empower patient autonomy
  - Promote equitable health care
  - Apply principles of quality improvement and quality assurance
  - Recognizes the risk factors for a variety of common critical illnesses and counsel families and colleagues in ways to minimize the acquisition risk
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  - Educate patients and families about and promote the importance of long-term health behaviors and preventative health care.
  - Educate patients and families of critically ill patients on the life-style and health issues that have led to the illness.

## 6. Scholar

- i. General Requirements: The resident will:
- Develop, implement, and monitor a personal continuing education strategy.
  - Critically appraise sources of medical information and applies evidence based practices to the care of the critically ill patient
  - Facilitate learning of patients, students and other health professionals
- ii. Specific Requirements: The resident:
- Should recognize knowledge gaps and read around their cases.
  - Should be aware of medical literature and understand how to search and critically appraise it.

## 7. Professional

- i. General Requirements: The resident will:
- Deliver highest quality care with integrity, honesty and compassion.
  - Exhibit appropriate personal and interpersonal professional behaviors
  - Understands professional obligations to patients and colleagues
  - ***Specific Requirements***
  - Develop and demonstrate use of a framework for recognizing and dealing with ethical issues in clinical and/or research practice including truth-telling, consent, conflict of interest, resource allocation, and end-of-life care.
  - Exhibit appropriate personal and interpersonal professional behaviors including: Keeping attending physicians apprised of relevant events, interacting appropriately with the nursing staff, and being available to the unit when needed while on call.