

# 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 of 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.