

Residency Rotation-Specific Objectives**Rotation: PGY1 INTENSIVE CARE UNIT (ICU)**

Resident name:	Supervisor name:
Rotation dates:	Hospital:

IMPORTANT: Supervisor and resident must discuss these rotation-specific objectives during the rotation orientation, and sign below to confirm discussion has taken place.

Resident signature	Supervisor signature	Date

1 MEDICAL EXPERT**1.1 Knowledge Objectives**

1 Demonstrate knowledge of the:

- pathophysiology of systemic inflammatory response syndrome, sepsis and septic shock
- pathophysiology and mechanism of hypoxemic and hypercapnic respiratory failure
- pathophysiology and mechanisms of various types of shock
- risk factors and the pathophysiology of acute respiratory distress syndrome
- effects and clinical indications for vasopressor/inotropic therapy.
- differential diagnosis of decreased level of consciousness

1.2 Data Gathering Objectives:

- Obtain a complete, systematic, and appropriate history from a patient/substitute
- Conduct the physical assessment: able to detect important signs and know the significance
- In the course of your assessment, recognize when a patient requires higher level care or procedures and ensure this occurs (e.g. non-invasive ventilation, intubation, lines, ICU transfer, etc.)

1.3 Clinical Reasoning, Management and Judgement/Diagnostic and Therapeutic Planning

Objectives:

- Assess and initially manage a patient with:
 - Acute respiratory failure
 - Hypotension and shock
 - Multi-organ failure
 - Acute metabolic and electrolyte-disorders
 - Complications of acute renal, hepatic, and haematological dysfunction
 - Sepsis and septic shock
 - Altered level of consciousness
 - GI haemorrhage
- Diagnose brain death and understand the implications.
- Establish a differential diagnosis of etiological pathogens and choose appropriate empirical antibiotic therapy for life-threatening infectious syndromes.

1.4 Procedural skills Objectives:

1. Demonstrate competency in the following, appropriate for level of training AND/OR an understanding of indications for:

- Oxygen Therapy: indications, techniques, and complications of oxygen therapy (nasal prongs, masks, nebulizers)
- Airway management - suction, oropharyngeal airways, bag-mask ventilation, endotracheal intubation and non-invasive ventilation

- c) Mechanical ventilation: modes, lung protective strategies, weaning and unconventional approaches
- d) Monitoring: ECG, pulse oximetry, invasive and non-invasive blood pressure
- e) Invasive hemodynamic monitoring: interpretation of hemodynamic data [generated from arterial and central venous monitors](#)
- f) Venous access
- g) Chest tube thoracostomy/pericardiocentesis
- h) Nasogastric tube insertion
- i) Bronchoscopy
- j) Dialysis

2 COMMUNICATOR

2.1 Physician/Patient Relationship Objectives:

- 1 Demonstrate awareness of the uniquely stressful environment of the ICU, and its effect on patients, families, and medical staff
- 2 Establish therapeutic relationship with patients/families.
- 3 Elicit the trust and cooperation of the patient [and/or patients' families](#)
- 4 Demonstrate effective tools for gathering a) historical information and b) collateral information from patients' families in the critical care setting
- 5 Demonstrate ability to discuss patient's ongoing care with patient's surrogate decision maker.
- 6 Complete health records in an accurate and timely manner.

2.2 Verbal / Written Communication Skills Objectives:

- 1 Demonstrate appropriate communication skills when interacting with all members of the multidisciplinary healthcare team and administrative staff.
- 2 Listen effectively, discuss appropriate information with patients/families and the healthcare team.
- 3 [Observe communication of goals of care, end-of-life care, and disclosure of "bad news" with attending physician/senior fellow, and engage in a discussion post event identifying useful strategies to deal with these scenarios.](#)
- 4 [Identify](#) common terms associated with documentation of critical care cases and chart appropriately.
- 5 [Complete appropriate handover of clinical events in person to senior team members on a daily basis.](#)

3 COLLABORATOR

3.1 Team Relations Objectives:

- 1 Cooperate and work effectively with colleagues and other professionals on the service
- 2 Demonstrate an understanding of the role of various allied healthcare professionals and consultants in the management of the critically ill patient
- 3 Participate actively as a team member.

4 MANAGER

4.1 Time Management Objectives:

- 1 Prioritize patient-care in an effective and efficient manner.

4.2 Resources and Allocation Objectives:

- 1 Utilize resources effectively to balance patient care, learning needs, and work-life activities.
- 2 Use resources appropriately in balancing the provision of critical care and being fiscally responsible.
- 3 Assist in ensuring adequate patient flow in the optimal utilization of critical care resources.

5 HEALTH ADVOCATE

5.1 Determinants of Health/Health Advocacy Objectives:

- 1 Recognize the situations requiring both aggressive and comfort-oriented care
- 2 Identify opportunities for patient counselling and education regarding their medical conditions.
- 3 Recognize and respond to those issues where advocacy is appropriate.

6 SCHOLAR

6.1 Self-Directed Learning Objectives:

- 1 Acquire basic knowledge for critical care medicine.

6.2 Critical Appraisal Skills Objectives:

- 1 Critically appraise the literature regarding the diagnosis and treatment in a critical care setting.
- 2 Learn basics of principles of evidence-based medicine for decision making.

6.3 Teaching Skills Objectives:

- 1 Teach medical students, and patients/families, as appropriate.

7 PROFESSIONAL

7.1 Responsibility Objectives:

- 1 Be available to the administrative staff and healthcare team and participate in the management of patients in the ICU in conjunction with the staff, fellows, and nurses.
- 2 Demonstrate professional attitudes in interactions with patients and other healthcare personnel.

7.2 Self-Assessment Skills/Insight Objectives:

- 1 Communicate with attending staff and request assistance in patient management when appropriate.
- 2 Consult ancillary services when required to enhance patient care.

7.3 Ethics Objectives:

- 1 Demonstrate an awareness of the medico-legal issues and ethical issues with respect to patient confidentiality.
- 2 Demonstrate familiarity with some of the common ethical issues that arise in the provision of patient care in the intensive care unit.