



THE UNIVERSITY OF BRITISH COLUMBIA

Pediatric Critical Care Medicine Postgraduate Training Program

ELECTIVE SPECIFIC OBJECTIVES FOR: *ADULT CRITICAL CARE*

General Objectives:

1. To understand an approach to the diagnosis and management of critically ill adult patients.
2. To achieve technical competence in instituting invasive hemodynamic and ventilatory methods commonly applied in adults.
3. To communicate effectively with medical colleagues of different adult specialties and family of adult patients.
4. To learn the similarities and unique differences in approach of diagnosis and management between adult and pediatric patients.

Specific Objectives:

Medical Expert/Clinical Decision-Maker

General Requirements

1. Understand an approach to ethical and effective care of the adult critically ill patient.
2. Demonstrate the ability to access and apply relevant information to the practice of adult critical care.
3. Demonstrate basic knowledge of adult critical illness.
4. Demonstrate a basic understanding of adult physiology and age-related diseases.

Specific Requirements

1. Demonstrate a basic understanding of adult pathophysiology as outlined below:
 - 1.1 Respiratory Dysfunction
 - 1.1.1 The ability to determine the presence of respiratory failure, provide for its emergency support, and have a plan of action to subsequently investigate and manage problems.
 - 1.1.2 Demonstrate knowledge of basic adult respiratory disease processes.
 - 1.2 Cardiovascular Dysfunction
 - 1.2.1 The ability to recognize the problem, provide emergency life support, and embark on a basic diagnostic and management program.

- 1.2.2 Demonstrate knowledge of Advanced Adult Life Support (ALS) techniques.
- 1.2.3 Demonstrate knowledge of basic adult invasive and non-invasive hemodynamic monitoring.
- 1.2.4 Demonstrate knowledge of common causes of heart failure in adults.
- 1.2.5 Demonstrate knowledge of basic adult cardiac arrhythmias.
- 1.2.6 Demonstrate knowledge of shock in adults.
- 1.3 Neurologic Dysfunction
 - 1.3.1 The ability to recognize CNS dysfunction in an adult, and to institute basic immediate life-sustaining measures, carry out an appropriate neurologic examination, derive a basic differential diagnosis and outline a diagnostic and management plan.
- 1.4 Renal Dysfunction
 - 1.4.1 Recognize renal dysfunction in the adult patient, derive a diagnostic and management plan.
- 1.5 Gastrointestinal Dysfunction
 - 1.5.1 Recognize and derive an appropriate approach to diagnosis and management of an acute GI crisis in the adult.
- 1.6 Trauma
 - 1.6.1 Apply ATLS techniques to the adult trauma patient.
- 1.7 Demonstrate proficiency in the following techniques
 - 1.7.1 Maintenance of the adult airway.
 - 1.7.2 Suctioning techniques and airway toilet.
 - 1.7.3 Oropharyngeal airways.
 - 1.7.4 Orotracheal intubation.
 - 1.7.5 Application of end tidal CO₂ detector post intubation.
 - 1.7.6 Application of capnography.
 - 1.7.7 Application of pulse oxymetry.
 - 1.7.8 Ventilation by bag and mask.
 - 1.7.9 Application of conventional positive pressure mechanical ventilation,
 - 1.7.10 Arterial line placement in the adult patient.
 - 1.7.11 Central venous line placement in the adult patient.
 - 1.7.12 Determination of a nutritional plan.

Communicator

General Requirements

1. Establish relationships with patients/families.
2. Listen effectively.
3. Obtain and synthesize relevant history from patients/families/communities.
4. Discuss information appropriate to level of training with patients/families and the health care team.

Specific Requirements

1. Assess, communicate with and support patients and families confronted with critical illness.
2. Know and understand the consequences of the language used to impart information.
3. Be acquainted with the unique stressful environment of the critical care milieu for patients and their families.
4. Demonstrate respect and understanding for the role of other team members in communicating and facilitating decision-making with critically ill patients and their families.

Collaborator

General Requirement

Contribute effectively to the interdisciplinary health care team.

Specific Requirement

Contribute to productive communication among the adult critical health care team.

Manager

General Requirements

1. Work effectively and efficiently in a health care organization.
2. Utilize information technology to optimize patient care.

Specific Requirement

Be familiar with the administrative organization required to operate an adult intensive care unit in an urban tertiary care hospital.

Health Advocate

General Requirement

Identify important determinants of health affecting adult patients

Specific Requirement

Understand, in general, the diverse determinants of healthy, disease, and illness, and relate occupational and environmental exposures, socio-economic factors and life style factors to critical illness.

Scholar

General Requirement

Implement a personal continuing education strategy.

Specific Requirements

1. Demonstrate the ability to efficiently access information from the medical literature using current information retrieval tools.
2. Practice the principles of adult learning.

Professional

General Requirements

1. Exhibit appropriate personal and interpersonal professional behaviours.
2. Practice medicine ethically consistent with the obligations of a physician.

Specific Requirements

1. Be aware of and understand moral ethical issues as they impact on patients, their families and critical care providers.
2. Function as a junior partner in an adult critical health care team.