

University of Ottawa Critical Care Medicine Resident Objectives: Cardiac Surgical Intensive Care Unit Rotation-Specific Objectives

CanMEDS Roles	CanMEDS Key Competencies	Methods To Facilitate Achievement of Competency
<p>1. Medical Expert a. Knowledge:</p>	<p><i>First Year Critical Care Residents:</i></p> <ul style="list-style-type: none"> a) Physiology and management of myocardial ischemia, congestive heart failure, cardiogenic shock and cardiac arrhythmias b) Principles of intra-aortic balloon pump and cardiac assist device usage in refractory cardiogenic shock c) Management of the post-operative patient with cardiopulmonary bypass d) Management of transvenous and intra-cardiac pacemakers e) Pathophysiology and management of the post cardiac transplant patient f) Differential diagnosis of common thrombotic and coagulopathic conditions in the post-cardiac surgery patient <p><i>Second Year Critical Care Residents:</i></p> <ul style="list-style-type: none"> a) Clinical management of (and recognition of controversies in) the above conditions. 	<ul style="list-style-type: none"> • Distribution of relevant educational material by CD • CSICU daily patient rounds • CSICU daily x-ray rounds • CSICU sign-over rounds • CSICU core lecture series for rotating off-service residents • Self-directed reading
<p>b) Technical skills:</p>	<p><i>First Year Critical Care Residents:</i></p> <ul style="list-style-type: none"> a) Recognition of the ABC's of a critically ill patient b) Insertion of femoral, internal jugular and subclavian venous catheters c) Insertion of a Swan-Ganz catheter d) Insertion of a transvenous pacemaker e) Bedside management of intra-aortic balloon pump and complications of cardiac assist devices 	<ul style="list-style-type: none"> • Distribution of relevant educational material by CD • CSICU daily patient rounds • CSICU daily x-ray rounds • CSICU sign-over rounds • CSICU core lecture series for rotating off-service residents • Self-directed reading

	<p><u>Second Year Critical Care Residents:</u></p> <p>a) Bedside operation of the Swan-Ganz catheter b) Proficiency in flexible bronchoscopy of the awake patient c) Proficiency in the skills listed under the requirements for first year fellows</p>	
2. Communicator	<p><u>First Year and Second Year Critical Care Residents:</u></p> <p>a) To understand the issues involved in communicating end-of-life issues with families of critically ill patients b) To convey complicated medical information and related issues in simple terms to families of critically ill patients c) To develop the ability to communicate with families and the medical team in times of medical and/or family crises</p> <p><u>Second Year Critical Care Residents:</u></p> <p>a) To perform the above skills independent of staff supervision b) To supervise junior house staff and first-year Fellows in the above categories</p>	<ul style="list-style-type: none"> • Observation and participation in family meetings held by Attending CSICU staff • Daily communication with families for updates on patient condition • Participation as lead physician in family meetings with staff supervision as required
3. Collaborator	<p><u>First and Second Year Critical Care Residents</u></p> <p>a) to communicate effectively and in a timely manner with consulting services b) to communicate care plans clearly and precisely to all members of the allied health teams</p>	<ul style="list-style-type: none"> • Interaction with consultation services for patient care • Coordinate patient care for all patients in the CSICU
4. Manager	<p><u>First and Second Year Critical Care Residents:</u></p> <p>a) The ability to effectively balance time between patient care, learning and stress management b) The ability to manage and recognize effects of fatigue on patient care and</p>	<ul style="list-style-type: none"> • Discussion of time issues with CSICU physicians • Use of organizational aids such as ICU website,

	<p>safety</p> <p>c) To effectively prioritize a heavy workload</p> <p><u>Second Year Critical Care Residents:</u></p> <p>a) To acquire the ability to assume the role of final decision-maker</p> <p>b) To understand the basic principles and implement strategies for risk management in the ICU</p>	<p>network drive, etc.</p>
<p>5. Health Advocate</p>	<p><u>First and Second Year Critical Care Residents:</u></p> <p>a) To familiarize oneself with the relative costs of different diagnostic and treatment modalities</p> <p>b) To demonstrate proficiency with obtaining informed consent</p>	<ul style="list-style-type: none"> • Discussion of cost and issues on rounds with attending CSICU staff physicians and pharmacists • Participation in family discussions for end of life decisions and consent for enrollment in clinical trials and/or special procedures
<p>6. Scholar</p>	<p><u>First Year Critical Care Residents:</u></p> <p>a) To facilitate the education of other learners in the ICU</p> <p><u>Second Year Critical Care Residents:</u></p> <p>a) To lead informal teaching sessions on basic critical care topics</p>	<ul style="list-style-type: none"> • Participation in CSICU core lecture series rotating off-service residents