

Off-Service Internal Medicine Rotation Objectives

The goal of the residency program in internal medicine is to train physicians to fulfill the roles of a specialist in internal medicine as delineated by the Royal College of Physicians and Surgeons of Canada in the CanMEDS 2000 document.

Faculty and senior trainees will provide teaching by role modeling, bedside teaching and provision of constructive feedback. Didactic teaching rounds and clinical conferences will supplement patient encounters.

Over the training period, it is expected that residents will demonstrate ongoing development in each of the CanMEDS 2000 roles such that the depth, sophistication, efficiency and proficiency of their performance increases with increasing seniority.

The following are the rotation specific goals and objectives for trainees during their Ambulatory GIM experience. These have been formulated to guide provision of an educational experience, which will encourage and allow the trainee to develop the knowledge, skills and attitudes of a specialist in Internal Medicine. These attributes will be developed within the framework of the CanMEDS 2000 roles as outlined by the Royal College of Physicians and Surgeons of Canada.

Medical Expert:

During the rotation, the resident will demonstrate proficiency in:

- i) assessment of patients presenting with undifferentiated medical complaints/problems including eliciting a relevant history, performance of the appropriate physical examination and evidence-based use of diagnostic testing.
- ii) evidence-based management of common medical illnesses as well as less common but remediable conditions.
- iii) effective, integrated management of multiple medical problems in patients with complex illnesses.
- iv) performance of common procedures used in diagnosis and management of medical patients including ECG interpretation.

At the end of the rotation, the trainee will have

1. developed evidence-based approaches to the investigation and management strategies of peri-operative patients who have the following problems:
 - chest pain
 - dyspnea
 - cardiovascular disease
 - atherosclerosis – recognition, primary/secondary prevention

- respiratory disease
 - renal disease
 - neurological disease
 - endocrine disorders
 - hematological disorders
 - hepatic disease
2. demonstrated proficiency in the following procedures:
- EKG interpretation
 - chest x-ray interpretation
 - pulmonary function interpretation
3. have an understanding of the indications, limitations and risks associated with the following procedures:
- Pulmonary function
 - Exercise EKG - stress test
 - holter monitors
 - 2D echocardiography/Doppler
 - myocardial perfusion imaging and radionuclide angiography
 - cardiac catheterization/angiography
 - revascularization strategies

Communicator:

During the rotation, the resident will demonstrate proficiency in:

- i) obtaining a thorough and relevant medical history.
- ii) bedside presentation of patient problems.
- iii) discussion of diagnoses, investigations and management options with patients and their families.
- iv) obtaining informed consent for medical procedures and treatments.
- v) communication with members of the health care team.
- vi) communication with referring and/or family physicians.

Collaborator:

During the rotation, the resident will:

- i) demonstrate proficiency in working effectively within the health care team.

- ii) demonstrate appropriate use of consultative services.
- iii) recognize and respect the roles of other physicians, nursing staff, physiotherapists, occupational therapists, nutritionists, pharmacists, social workers, secretarial and support staff, and community care agencies in provision of optimal patient care.

Manager:

During the rotation, the resident will:

- i) oversee provision of care and implementation of decisions regarding patient care, including effective delegation of care roles.
- ii) understand the principles and practical application of health care economics and ethics of resource allocation.
- iii) utilize health care resources in a scientifically, ethically and economically defensible manner.
- iv) demonstrate effective time management to achieve balance between career and personal responsibilities.

Health Advocate:

On completion of the rotation, the trainee will

- i) understand important determinants of health including psychosocial, economic and biologic.
- ii) demonstrate the ability to adapt patient assessment and management based on health determinants.
- iii) recognize situations where advocacy for patients, the profession or society are appropriate and be aware of strategies for effective advocacy at local, regional and national levels.

Scholar:

During the rotation, the resident will:

- i) develop the knowledge and skills to be able to recognize and assess the extent of underlying medical disease in the peri-operative patient.
- ii) develop and document an effective, long-term personal learning strategy.
- iii) demonstrate the ability to generate clinical questions related to patient care and utilize and analyze available resources to develop and implement evidence-based solutions to such questions.
- iv) demonstrate adequate knowledge of the basic sciences relevant to patient care including pathology, physiology and pathophysiology, biochemistry, and pharmacology.
- v) demonstrate effective teaching skills adapted to learners' needs.

By the end of the rotation, the trainee will

1. understand the physiology of:
 - normal cardiac rhythm and conduction
 - cardiovascular circulation – including maintenance and regulation of blood pressure, heart rate, and rhythm
 - respiratory function
 - renal function
2. understand the pathophysiology of:
 - atherosclerosis
 - stable/chronic angina pectoris
 - rhythm and conduction disturbances
 - congestive heart failure
 - chronic lung disease/pulmonary hypertension
 - renal dysfunction / renovascular disease
 - diabetes/other endocrine disorders
3. understand the pharmacology of:
 - antihypertensive drugs
 - beta blockers, calcium antagonists, nitrates, vasodilators, diuretics
 - angiotensin converting enzyme inhibitors/angiotensin receptor blockers
 - anti-arrhythmic agents
 - anticoagulants/anti-platelet agents
 - anti-cholesterolemic/anti-lipemic agents
 - antibiotics used for surgical prophylaxis
 - bronchodilators etc
 - oral hypoglycemics/Insulin
3. understand the scientific evidence supporting investigation and management strategies in peri-operative patients

4. have demonstrated critical review of the literature surrounding management of patients with medical disease undergoing surgery

Professional:

During the rotation, the resident will:

- i) demonstrate integrity, honesty and compassion in delivery of the highest quality of care.
- ii) demonstrate appropriate personal and interpersonal professional behaviors.
- iii) demonstrate awareness of the role and responsibilities of the profession within society.
- iv) 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.