

**ROTATION SPECIFIC OBJECTIVES**

*Division of Gastroenterology, Department of Medicine  
University of Toronto*

**LUMINAL - ST. MICHAEL'S HOSPITAL****OVERVIEW**

The division of gastroenterology at St. Michael's Hospital provides a core Gastroenterology rotation with particular focus on advanced therapeutic endoscopy. St. Michael's Hospital is the only Canadian centre of excellence in endoscopy recognized by the World Endoscopy Organization. In addition, St. Michael's Hospital is uniquely located in the inner city of Toronto, providing a unique opportunity for Residents to learn how to engage and manage patients, who may have difficulty in navigating the health care system, as it applies to gastroenterology resources. Undergraduate and postgraduate trainees participate in (1) in-patient activities on the Clinical Teaching Unit (CTU), (2) in-patient consultation services to the hospital, and (3) outpatient clinics and endoscopies.

**CANMEDS-BASED OBJECTIVES**

*At the end of the rotation, the GI Trainee will be able to:*

**MEDICAL EXPERT**

- Incorporate basic science knowledge into clinical care
- Demonstrate clinical knowledge sufficient to manage common gastrointestinal conditions
- Demonstrate clinical knowledge sufficient to diagnose and manage rare gastrointestinal disorders
- Demonstrate an understanding of the epidemiology, pathophysiology, risk factors, diagnostic approach, treatment and prognosis of gastrointestinal, biliary and pancreatic disease
- Demonstrate knowledge of the anatomy, physiology and pathology of the gastrointestinal tract, with a particular focus on the pancreaticobiliary tract
- Demonstrate knowledge of the principles of management of parenteral nutrition, including the indications, risks and complications
- Interpret gastrointestinal radiological studies (small bowel contrast studies, CT, MRCP etc.)
- Interpret urea breath test for H. pylori persistence / eradication
- Recognize relevant endoscopic pathology
- Perform flexible sigmoidoscopy with / without biopsy
- Perform esophagogastroduodenoscopy with / without biopsy
- Perform colonoscopy with / without biopsy
- Perform the following therapeutic endoscopic procedures: endoscopic hemostasis (injection, thermal, endoclips therapy, variceal banding)
- polypectomy (basic technique, PGY4)

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- advanced polypectomy technique (endoscopic mucosal resection, piecemeal removal with submucosal injection, PGY5)
- passive and wire-guided dilatation of strictures
- pneumatic dilatation of strictures
- Demonstrate knowledge of the indications, contraindications, risks and complications of diagnostic and therapeutic procedures:
  - principles of endoscopic hemostasis
  - endoclips for hemostasis
  - bipolar electrocautery for hemostasis
  - Argon plasma coagulation
  - Cyanoacrylate injection of gastric and ectopic varices
  - deep enteroscopy
  - ERCP and associated interventions
  - endoscopic ultrasound and fine needle aspiration
  - endoluminal stenting
  - management of massive upper gastrointestinal bleeds
- Demonstrate proficiency at diagnostic upper gastrointestinal biopsy with biopsies, flexible sigmoidoscopy with biopsies and colonoscopy with biopsies and polypectomy
- Demonstrate proficiency in obtaining informed consent for procedures (endoscopic, liver biopsy) and treatment (transfusion of blood products)

**COMMUNICATOR**

- Effectively communicate the results of investigations, a clear management plan to patients and their families
- Counsel patients on the management of acute and chronic pancreatitis

**COLLABORATOR**

- Work effectively with endoscopy nurses, other allied health care professionals (dietitians, TPN pharmacists, enterostomal nurses)
- Appropriately consult surgical and other services
- Work effectively with other housestaff in sharing responsibilities, including service, call, endoscopy and patient hand-over
- Demonstrate proficiency in soliciting input from and providing input to the multidisciplinary team
- Compile (written, dictation) comprehensive and thorough specialty-level consultation reports, discharge summaries, letters and progress notes

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- Communicate case summaries on patients seen to peer trainees and consultants commensurate in detail with the purpose of the summary (i.e. handover, request for consultation)

**LEADER**

- Utilize health care resources appropriately
- Manage time appropriately – in-patient, consultative service, endoscopy
- Oversee the provision of care to in-patients and implements decisions regarding patient care, including the appropriate delegation of care

**HEALTH ADVOCATE**

- Understand the determinants of health
- Implement preventative measures (triage of emergency patients appropriately for endoscopy in the endoscopy unit, ICU, collaboration with anesthesia for possible airway protection during endoscopy)
- Demonstrate sensitivity to and addresses patient-centered limitations to management (i.e. psychosocial, financial, linguistic, etc.)

**SCHOLAR**

- Demonstrate self-directed learning (critical appraisal, review of literature for patient care, rounds)
- Demonstrate knowledge of basic scientific principles as they apply to gastroenterology, particularly pancreaticobiliary diseases and endoscopic principles
- Effectively teach other allied health professionals – nursing staff, dieticians, pharmacists etc., and junior housestaff
- Demonstrate the ability to generate clinical questions regarding patient care
- Demonstrate the ability to answer clinical questions in an evidence-based manner

**PROFESSIONAL**

- Demonstrate respect and honesty toward faculty, patients, peer housestaff and other allied health professionals
- Understand the ethical relationship with pharmaceutical / endoscopy equipment industry representatives as defined by the University of Toronto, RCPSC, CMA
- Prepare correspondence (procedure notes, consultation and discharge summaries) in a timely manner

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- Demonstrate an attitude consistent with professional standards, including the delivery of patient care with integrity, honesty and compassion, especially in the context of care of patients in an inner city hospital