

ROTATION SPECIFIC OBJECTIVES

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

LUMINAL – TORONTO GENERAL HOSPITAL**OVERVIEW**

Toronto General Hospital (TGH) is a tertiary hospital, involved in the complex care of medical and surgical patients. There is the unique opportunity to provide consultation and endoscopy to admitted acutely ill oncology patients from Princess Margaret hospital, providing trainees with medical expertise in the diagnosis and management of GI complications of chemo- and radiation therapy, including graft versus host disease, and radiation colitis. In addition, there is a busy consultative service to general medicine and surgical services, as well as ICU, CCU.

Nutrition is also a site objective in the luminal rotation at TGH. Nutrition consultations will take place on the TGH inpatient and outpatient services. This will allow the trainee to assess and develop nutrition plans for patients with complex nutrition issues, including short bowel syndrome. In addition, nutrition education is integrated in the AHD, citywide journal club (critical appraisal of nutrition literature) and national CAG Basic Science Lecture Series.

CANMEDS-BASED OBJECTIVES

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

MEDICAL EXPERT

- Provide an appropriate differential diagnosis, followed by a clear and appropriate investigation plan.
- Incorporate sufficient basic science knowledge into clinical care to manage common gastroenterology problems
- Demonstrate knowledge in luminal aspects of general gastroenterology areas, with a particular focus on gastrointestinal disorders in the immunocompromised host, including Graft versus Host disease involvement of the gastrointestinal tract, esophageal motility, nutrition, radiation colitis
- Demonstrate knowledge regarding the indications and contraindications of enteral and total parenteral nutrition in various diseases, including inflammatory bowel disease, pancreatitis, short bowel syndrome, critically ill patients etc.
- Demonstrate knowledge and management of complications of enteral and parenteral nutrition, including refeeding, line sepsis
- Diagnose and provide an appropriate treatment plan for patients with short bowel syndrome

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- Demonstrate proficiency in the management of obesity and malnutrition, including familiarity with the management of home TPN patients
- Demonstrate knowledge of neuromuscular physiology in the control of swallowing
- Demonstrate knowledge of the indications and contraindications of esophageal manometry (EMS) and ambulatory pH studies
- Interpret esophageal manometry tracings of common esophageal motor disorders (e.g. achalasia, scleroderma, nutcracker esophagus and diffuse esophageal spasm)
- Apply the results of esophageal manometry and ambulatory pH studies to formulate a comprehensive patient care management plan
- Demonstrate basic competency in the interpretation of radiological studies (e.g. plain radiographs, small bowel contrast studies, CT enteroclysis, CT, MRCP, etc.)
- Understand the principles of conscious sedation – dosing, monitoring, antidote for over sedation
- Recognize relevant endoscopic pathology, with a focus on the immunocompromised host, complex cardiac care patients
- Perform flexible sigmoidoscopy with / without biopsy
- Perform esophagogastroduodenoscopy with / without biopsy
- Perform colonoscopy with / without biopsy
- Perform therapeutic endoscopic procedures as follows:
 - endoscopic hemostasis (injection, thermal, including ARGON therapy, endoclip therapy)
 - polypectomy
 - APC therapy - GAVE
 - Ablation of vascular lesions
- Understand the indications for / and performs basic endoscopic procedures for the management of esophageal motor disorders i.e. pneumatic dilatation, Botox injection
- Manage gastrointestinal bleeding in the patient with multi-system disorders, including complex cardiac care patients with transplant, LVAD

COMMUNICATOR

- Effectively communicate the results of investigations and clear management plan to patient and his / her family members to facilitate their medical care
- Obtain informed consent for procedures (endoscopy, esophageal and ambulatory pH studies, feeding tubes, enteral feeding, PICC lines, parenteral nutrition)
- Demonstrate respectful dialogue with a patient, who clearly understands the sequelae of not proceeding with recommendations, but declines to proceed with recommended investigations, medical, surgical or nutritional therapy

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COLLABORATOR

- Work effectively with allied health professionals, including endoscopy nurses, TPN pharmacist, multidisciplinary (BED, Benign Esophageal Disorders) clinic members (surgeons, motility technicians, speech language pathologists)
- Appropriately consults surgical and other services to effectively coordinate patient care with referring physicians, family physician and other consultants

LEADER

- Utilize health care resources appropriately based on clinical need and urgency
- Manage time appropriately – in-patient consultation service, endoscopy service, outpatient clinic, academic endeavors
- Appropriately triage and assign patients to the emergency endoscopy schedule
- Effectively supervise more junior team members (e.g. Internal medicine trainees rotating through GI service) regarding patient care / treatment implementation and delegate the workload in an appropriate and equitable manner
- Understand the importance of telehealth in educational and clinical applications

HEALTH ADVOCATE

- Implement preventative measures (triage endoscopy cases, collaboration with anesthesia when airway protection is required for endoscopic procedures etc.)
- Understand the issues surrounding patient safety during decision analysis to provide or not to provide endoscopy in the acute setting for patients with complex cardiovascular, oncology disorders

SCHOLAR

- Demonstrate self-directed learning (critical review of the literature for patient care, rounds), with particular attention to gastrointestinal bleeding in the complex host, nutrition, esophageal motility
- Demonstrate knowledge of key basic science principles (biochemistry, physiology, anatomy, pathology, genetics, pharmacology) as they apply to gastroenterology

PROFESSIONAL

- Recognize and deal with ethical issues surrounding consent, futility, with a focus on critically ill patients, the complex care and immunocompromised patients



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- Prepare consultant level correspondence (procedure, consultation, follow-up notes) in a timely manner
- Provide an environment of collegiality and respect amongst Residents on the gastroenterology and referring services, regarding acceptance of consultations, clinical discussions, timely consultations