

**Sunnybrook Health Sciences Centre,
Division of General Surgery_
Goals and Objectives for General Surgery Trainees**

Junior (PGY1, 2) General Surgery residents will complete a 2-3 month rotation on the service. Senior General Surgery residents will complete a 2-month (PGY3) or 4-month (PGY4, 5) rotation on the service. The General Surgery service at Sunnybrook Health Sciences Centre offers a rich exposure to key areas of General Surgical care including learning opportunities in:

- Trauma
- Acute Care Surgery
- Colorectal Oncologic Surgery
- Hepatobiliary Oncologic Surgery
- Breast and Melanoma Oncologic Surgery (*goals and objectives itemized separately*)

The following Goals and Objectives are detailed for General Surgery residents and organized by CanMeds roles.

These Goals and Objectives are utilized in evaluation of Resident performance and will be reflected on the ITER.

Medical Expert

At the end of the rotation the resident will be able to:

JUNIOR RESIDENTS (PGY 1&2) - Knowledge

1. Describe the principles of resuscitation of the major trauma patient
2. Conduct a primary, secondary and tertiary survey for the injured patient
3. Describe role of the trauma centre in secondary prevention
4. Demonstrate proficiency in the management of acute appendicitis, intestinal obstruction, uncomplicated gallstone disease
5. Demonstrate an understanding of the screening criteria for colorectal cancer
6. Demonstrate proficiency in the diagnostic workup of colon cancer
7. Describe the principles of source control for surgical infections
8. Describe the principles of damage control resuscitation and damage control surgery
9. Demonstrate proficiency in the management of postoperative complications after major laparotomy including hypoxemia, hypovolemia and pain
10. Understand the principles of mechanical bowel preparation and venous thromboembolism prophylaxis

JUNIOR RESIDENTS (PGY 1&2) – Technical Skills

1. Demonstrate anticipation of surgical maneuvers and appropriate assisting in the operating room
2. Demonstrate gentle tissue handling
3. Demonstrate accurate and deliberate suturing and appropriate knot tying
4. Demonstrate an understanding of the conduct of a trauma laparotomy
5. Surgically manage uncomplicated appendicitis and cholecystitis with assistance
6. Demonstrate the safe mobilization of the colon and completion of a bowel anastomosis with assistance
7. Demonstrate the technique of end and loop stoma formation with assistance

INTERMEDIATE (PGY-3) RESIDENTS – Knowledge

1. All objectives listed above for 'JUNIOR RESIDENTS'
2. Demonstrate the principles of resuscitation of the major trauma patient
3. Accurately review trauma imaging (CXR, pelvic xray, CT chest, abdomen, pelvis)
4. Demonstrate the principles of source control for surgical infection

INTERMEDIATE (PGY-3) RESIDENTS – Technical Skills

1. All techniques listed above for 'JUNIOR RESIDENTS'
2. Demonstrate the conduct of a trauma laparotomy
3. Achieve hemorrhage control in the bleeding patient
4. Demonstrate proficiency with the technique small bowel anastomosis

SENIOR RESIDENTS (PGY 4&5) - Knowledge

1. All objectives listed above for 'JUNIOR and INTERMEDIATE RESIDENTS'
2. Demonstrate an understanding of the principles of workup and management of recurrent and advanced rectal cancer
3. Demonstrate proficiency in the diagnostic workup and management of pancreatic, gastric, and hepatic tumours
4. Demonstrate the principles of damage control resuscitation and damage control surgery
5. Demonstrate proficiency in multi-disciplinary management of patients with colorectal, gastric and hepatobiliary malignancies.

SENIOR RESIDENTS (PGY 4&5) – Technical Skills

1. All techniques listed above for 'JUNIOR and INTERMEDIATE RESIDENTS'
2. Demonstrate proficiency in laparoscopic intracorporeal suturing
3. Demonstrate proficiency in completing a laparoscopic colon resection with assistance
4. Demonstrate proficiency in the operative management of uncomplicated and complex acute cholecystitis
5. Demonstrate proficiency in operative management of complicated and perforated appendicitis
6. Demonstrate proficiency in procedures required to achieve source control in surgical infections [e.g. peritonitis, necrotizing soft tissue infections, empyema]
7. Demonstrate the technique of total mesorectal excision
8. Demonstrate the techniques involved in a Whipple, liver resection, and total gastrectomy with assistance including:
 - Dissection of the porta hepatis
 - Vascular isolation/control for vein resection/ligation in hepatic/pancreatic resection
 - Perigastric and periportal lymphadenectomy
9. Demonstrate the technique of parenchymal transection for liver resection

Communicator

At the end of the rotation the resident will be able to:

1. Complete the surgical checklist with the peri-operative team.
2. Communicate with consultant services and collaborate effectively with consulting services and allied professionals to ensure best care delivery.
3. Complete the electronic handover tool after their on-call period.
4. Consult relevant services and incorporate relevant therapeutic plans into the overall plan of care for the patient.
5. Communicate effectively with the ICU team to coordinate ICU and surgical care of patients.
6. Provide timely, accurate, compassionate and patient-centered information exchange, with patients and their families, at the point of care.

Collaborator

At the end of the rotation the resident will be able to:

1. Demonstrate proficiency in handover with the team on call and the responsible attending surgeon for any patient with active issues prior to leaving the hospital (pending investigations, requires clinical reassessment, pending surgical intervention, recent transfer to the ICU).
2. Demonstrate collaboration with medical and radiation oncology for appropriate multi-disciplinary care of the cancer patient.

Manager

At the end of the rotation the resident will be able to:

1. Demonstrate proficiency in the pre and post-operative care of patients undergoing elective and/or emergency surgery.
2. Demonstrate proficiency in obtaining informed consent for emergency and elective surgery.
3. Demonstrate the ability to meet the diverse learning needs of house staff at various levels and from various disciplines.
4. Demonstrate the ability to interact effectively at multidisciplinary rounds.
5. Ensure timely discharge of patients.
6. Demonstrate proficiency in time management by appropriately signing over patients to the on call team and ensuring safe and appropriate delegation of tasks to team members.

Health Advocate

At the end of the rotation the resident will be able to:

1. Ensure diagnostic tests are completed in a timely fashion.
2. Ensure timely access to adjuvant or neo-adjuvant therapy for patient with cancer.
3. Organize resources to ensure that patients can be safely discharged from hospital in a timely fashion.
4. Engage in patient safety initiatives and identify opportunities for quality improvement in surgical care delivery.

Scholar

At the end of the rotation the resident will be able to:

1. Demonstrate a curiosity and interest in the field.
2. Read around cases to expand their scope of knowledge.
3. Present and discuss relevant topics at teaching rounds, including morbidity and mortality reviews and journal clubs.
4. Demonstrate proficiency in the teaching of undergraduate students and junior trainees.

Professional

At the end of the rotation the resident will be able to:

1. Complete medical records: OR dictations, discharge summaries, consult notes, death certificates in a timely manner.
2. Respect the PARO contract.
3. Provide patient care in a compassionate and ethical manner, reflecting an understanding of issues related to age, gender, culture and ethnicity.
4. Demonstrate respect for colleagues, more junior trainees and other members of the health care team.
5. Maintain an acceptable attendance record at teaching rounds.
6. Demonstrate insight into strengths and weaknesses and receive feedback appropriately.

Summary

The goal of this rotation is to afford residents the opportunity to develop the knowledge and the skills necessary to assess and deliver surgical and peri-operative care to complex general surgery trauma and oncology patients. The rotation is conducted with a focus on evidence-based and multidisciplinary care, with goal-directed and individualized assessment and training for residents.