

## **Abdominal Surgery and Transplantation (Green Service): PGY-1**

### **ABDOMINAL SURGERY OBJECTIVES:**

Demonstrate an understanding of the anatomy, physiology, pathophysiology, and presentation of diseases of the abdominal cavity and pelvis.

Demonstrate the ability to formulate and implement a diagnostic and treatment plan for diseases of the abdomen and pelvis that are amenable to surgical intervention.

Develop the basic skills of surgical technique and operating room behavior.

### **PATIENT CARE:**

1. Perform, record, and report complete patient evaluation and assessment.
2. Evaluate and diagnose the acute abdomen.
3. Assist with surgical procedures; eg. hernias, central venous access, appendicitis, minor surgery, demonstrating a basic understanding of the anatomy, surgical repair, and surgical technique.
4. Interpret the following in coordination with attending radiologists and staff:
  - a. Acute abdominal series (identify free air, small bowel obstruction, ileus, colonic pseudo-obstruction, volvulus; the presence of ascities, atelectasis vs. pneumonia)
  - b. Upper GI series
  - c. Barium enema (identify neoplasms, signs of ischemia, diverticula, stricture)
  - d. Abdominal ultrasound and CT scans
5. Evaluate and institute management of abdominal wound problems, including:
  - a. Infection/abcess
  - b. Evisceration
  - c. Fasciitis
  - d. Dehiscence
6. Coordinate pre- and post- operative care for the patient with the acute abdomen.
7. Institute drainage for abdominal wall fistula and protection of surrounding structures, especially skin.
8. Assist in closure of abdominal incisions; exhibit competency in suture technique

### **ORGAN TRANSPLANTATION OBJECTIVES:**

Demonstrate an understanding and interpret guidelines of indications and contraindications for the different solid organ transplants.

Demonstrate a working understanding of the fundamental immunologic principles governing organ transplantation and immunosuppression.

Demonstrate understanding of the potential metabolic, physiologic, and malignant side effects of immune suppressants.

**PATIENT CARE:**

1. Evaluate potential candidates for living-related and cadaveric vascularized organ transplantation, including:
  - a. Clinical suitability
  - b. Strength of social support
  - c. Expected graft and patient survival
2. Participate in the pre- and post- operative surgical management of patients after vascularized organ transplant.
3. Assist with the performance of a renal transplant.
4. Participate in the perioperative management of immunosuppressive drug therapy, including monitoring drug levels and treating potential toxicities.
5. Participate in the evaluation of patients suspected of organ rejection to include:
  - a. Laboratory and radiologic testing
  - b. Administration of immunosuppressive (IS) agents
  - c. Following patients for potential acute and chronic side effects
6. Participate in the preparation and handling of multiple organ harvest in the brain dead patient.
7. Define suitability characteristics of organs for transplantation.
8. Manage postoperative surgical complications, including wound infection, anastomotic stenoses and leaks, and lymphocele formation.