

## **Gastrointestinal Endoscopy**

Length:	8 weeks during PGY-4 year
Location:	Tripler Army Medical Center and Kuakini Medical Center
Primary Supervisor:	Ronald Gagliano, M.D./Raquel Bueno, M.D.
Contact Telephone #:	433-3479 (Sandra Yuu, Program Coordinator, Tripler) and 523-8611 Dr Bueno's Office at Kuakini

### **Goals**

Upon completion of the Gastrointestinal Endoscopy rotation, the Resident will recognize and appreciate the role of GI endoscopy in the overall management of the surgical patient.

### **Objectives**

At the end of this Gastrointestinal Endoscopy rotation, the resident will be able to:

#### **Medical Knowledge**

1. Understand indications, contraindications, proper maintenance and preparation of equipment prior to endoscopic procedures (esophagogastroduodenoscopy, colonoscopy, flexible sigmoidoscopy, ERCP).
2. Be familiar with endoscopic management of esophageal varices.
3. Demonstrate an understanding of the presentation, radiographic and endoscopic evaluation of commonly encountered upper gastrointestinal disorders (esophageal motility disorders, strictures, ingestion/radiation injuries, malignancies, reflux, webs/diverticula, ulcers, infections, inflammatory bowel disease, etc.).
4. Understand rationale for endoscopic and surgical management of acute gastrointestinal hemorrhage.
5. Demonstrate an understanding for antibiotic prophylaxis during endoscopy, selection of appropriate antibiotics, and use of medications such as sedatives during endoscopic procedures.

#### **Patient Care**

1. Demonstrate proficiency performing focused history and physical examinations on surgical endoscopy patients.
2. Demonstrate competence and understanding of diagnostic upper and lower gastrointestinal endoscopy with proper techniques of collection of biopsy material (hot and cold biopsies, snare cautery, polypectomy), retrieval of foreign bodies, cytologic smears (brushings), endoscopic photography, colonoscopic decompression of pseudo-obstruction and volvulus, and the diagnosis and management of endoscopic complications.
3. Perform flexible esophagogastroduodenoscopy using both blind and visually directed passage of the scope.
4. Demonstrate recognition of normal anatomic landmarks of the esophagus, stomach, duodenum.
5. Understand resuscitation principles for the patient with an acute gastrointestinal hemorrhage.

6. Develop and demonstrate a working knowledge to allow for independent use of the following:
  - a. Rigid and Flexible Sigmoidoscopies
  - b. Colonoscopies
  - c. Anoscopies
  - d. The accessories to the above to include banders, biopsy forceps, snares, lasers, heater probes, over tubes, and dilators.
7. Develop advanced skills in the performance of colonoscopy to include use of external compression, techniques to avoid and remove loops, proper patient positioning.
8. Demonstrate proficiency in the performance of Office based procedures to diagnose and treat common anorectal pathology.

### **Systems-based Practice**

1. Understand the multidisciplinary role of the Surgeon, Nurses, and the Endoscopy Team in the provision of safe and high quality patient care.
2. Understand and apply guidelines for monitored (conscious) sedation, to include Institutional requirements for pre-procedure evaluation and documentation.

### **Professionalism**

1. Interact with patients and their families in a respectful, sensitive, and ethical manner.
2. Interact with other members of the Endoscopy Team and ambulatory clinic personnel in a respectful, responsible, and professional manner.

### **Practice-based Learning and Improvement**

1. Demonstrate ability to utilize scientific studies to provide high quality endoscopic care.
2. Appropriately utilize Hospital information technology systems to manage patient care, and to access on-line medical information to deliver high quality care.
3. Facilitate and supports the education of medical students, junior residents, and other healthcare team members.

### **Interpersonal and Communication Skills**

1. Demonstrate skill in effective information exchange with patients, their families, and other members of the Endoscopy Team.
2. Demonstrate ability for accurate and timely information exchange between other members of the healthcare team, both verbally and in writing, with appropriate use of the medical record.

## **Implementation**

Residents will obtain their Gastrointestinal Endoscopy experience at Tripler Army Medical Center (3 days per week) and at Kuakini Medical Center (2 days per week). Drs. Ronald Gagliano (Tripler Army Medical Center) and Raquel Bueno (Kuakini Medical Center) will provide the endoscopy

experience. Residents must communicate regularly with the Faculty so as to be available for procedures that may be scheduled on short notice (procedures for upper GI hemorrhage, manipulations of the distal common bile duct, for example). There is no in-house call requirement for this rotation.

## Required Readings

Residents will be expected to maximize their learning opportunities by reading about anticipated and real conditions encountered during this rotation:

Ginsberg *et al* Clinical Gastrointestinal Endoscopy (Textbook held at Program Offices, UH Tower)  
Cotten, P., *Practical Gastrointestinal Endoscopy*.  
Waye, J., *Techniques in Therapeutic Endoscopy*.

Peer reviewed articles will also be chosen by the Faculty:

## Evaluation

Global Assessment and Focused Review.

## Other

Residents rotating on the Gastrointestinal Endoscopy Service will be required to take part in the endoscopic simulator training housed at the John A. Burns School of Medicine complex in Kakaako.

## Required Viewings

Residents are also expected to take advantage of CD-ROM materials available for viewing