

Vanderbilt University Medical Center
Emergency General Surgery Service
Surgical Residency Rotation and Curriculum

UNIT 1 ANATOMY

UNIT OBJECTIVES:

1. Demonstrate knowledge of anatomy that is pertinent to the practice of surgery.
2. Apply knowledge of anatomy to the diagnosis and treatment of patients, both in and out of the operating room.

COMPETENCY-BASED KNOWLEDGE OBJECTIVES:

Junior Level:

1. Review, identify, and delineate the anatomical structures encountered in common general surgical operations such as:
 - a. Placement of central lines, PAC, arterial lines (radial, femoral, axillary)
 - b. Hernia repair (Inguinal, abdominal wall)
 - c. Cholecystectomy (porta hepatis)
 - d. Appendectomy (open & laparoscopic - gut anatomy)
2. Discuss the differences in visualization of organ structures by various technologies, such as:
 - a. Routine radiograms
 - b. Contrast studies
 - c. Computed axial tomography (CAT) scans
 - d. Ultrasound

Senior Level:

1. Define and describe the anatomic aspects of even the most complex general surgical operations such as:
 - a. gastric procedures (laparoscopic and open)
 - b. Splenectomies (laparoscopic and open)
 - c. Common bile duct exploration (laparoscopic and open)
 - d. Pancreatic procedures (malignant, acute & chronic disease)
 - d. Laparoscopic ventral hernia repairs
 - e. Laparoscopic inguinal hernia repair
 - f. Abdominal Wall Reconstruction / Component Separation
 - g. Small bowel resection
 - h. Vagotomy & Pyloroplasty
 - i. Colectomy, colostomy
 - j. Spine exposure for thoracic and retroperitoneal spinal stabilization
 - k. Endoscopic procedures (EGD, PEG / PEJ, Post-pyloric tube placement)
2. Interpret various imaging technologies to derive anatomic information (diagnostic and therapeutic).
 - a. Knowledge and indications for CXR (AP, PA / lateral)/ KUB, Lateral decubiti, upright CXR.
 - b. Knowledge and indications for abdominal / vaginal ultrasound

Vanderbilt University Medical Center
Emergency General Surgery Service
Surgical Residency Rotation and Curriculum

- c. Knowledge and indications for UGI (with or without SBFT), Barium / Gastrografin Enema
- d. Knowledge and indications for HIDA scan in biliary / hepatic disease
- e. Knowledge and indications for CT – scan (with or without IV / PO / rectal contrast)
- f. Knowledge endoscopic anatomy and indications for EGD, ERCP, Colonoscopy,

COMPETENCY-BASED PERFORMANCE OBJECTIVES:

- 1. Integrate knowledge of anatomy into the following:
 - a. The diagnosis of general surgical disease
 - b. Explanations to patients and families regarding:
 - (1) Planning of surgical procedures
 - (2) Progress of disease
 - (3) Explanation of complications
 - c. The performance of surgical procedures appropriate for the level of training
 - d. Postoperative management of the patient, including long-term follow-up