Acute Care Surgery Competency Based Curriculum

Medical Knowledge:

PGY-1
1. Ability to interpret radiographic studies including plain x-rays, CT scans of head, chest and abdomen, and angiograms.
2. Ability to interpret laboratory data and EKGs.
3. Understand the body as a whole
   a. Wound healing
   b. Basic gastric and intestinal physiology
   c. Fluid and electrolyte balance and nutrition
   d. Resuscitation in the general surgery patient
4. Know basic anatomy of the abdomen and hernias
5. Know anatomy of the GI tract including blood supply
6. Know anatomy of the Liver and Spleen
7. Know the anatomy of the endocrine system

PGY-2
1. Increased understanding of radiographs, CT scans, angiograms and laboratory data.
2. Understand advanced anatomy of the abdomen, GI tract and blood supply.
3. Be able to outline the types of hernias and their therapy
4. Understand the treatment of gastric diseases
5. Understand the diseases of the alimentary tract.
6. Understand the diseases of the endocrine system.
7. Understand diseases of the liver, splenic and biliary systems.
8. Distinguish disease states best treated with surgical vs. medical therapy

PGY-6
1. Be able to accurately read radiographic studies and integrate the interpretation along with the laboratory data into a plan of therapy for a patient.
2. Understand hernia problems to be able to outline a plan of therapy and choose the correct operative procedure.
3. Understand diseases of the endocrine system and be able to choose a correct operative approach. Be able to outline the operative preparation and potential complications of a surgical approach to the problem.
4. Understand diseases of the intestinal system and be able to outline an operative approach to the problem along with indications and contraindications.
5. Understand gastric problems and be able to outline an operative approach to specific problems along with indications and contraindications for a particular operative approach.
6. Understand biliary, liver and splenic problems and be able to outline an operative approach to specific problems along with indications and contraindications for a particular operative approach.
Patient Care and Technical Skills:

PGY-1
Can expect to learn listed skills and assume responsibility for managing patients with these problems under the close supervision of a senior resident and attending staff.

- Refinement of history and physical skills
- Resuscitative maneuvers (IV placement, Chest tubes, central line placement, endotracheal intubation, control of hemorrhage.
- Basic pre and post-operative care
- Basic use of surgical instruments

Perform the following operative procedures:
  - Minor outpatient and inpatient operative procedures
  - Inguinal herniorrhaphy
  - Appendectomy

PGY-2
Will assume greater responsibility and technical skills involved in:

- Initial evaluation of surgical problems
- Consultation on emergency and in-hospital patients
- Teaching medical students and interns
- Management decisions

Perform the following operative procedures:
  - Advanced skin and soft tissue procedures
  - Open Cholecystectomy
  - Exploratory laparotomy
  - Bowel anastomosis
  - Flexible endoscopy (EGD, colonoscopy, choledochoscopy)
  - Colon Surgery
  - Tracheostomy
  - Long term feeding access (G-tube, J-tube, PEG)
PGY-6
Will assume primary responsibility for complex technical skills required for the management of:

- Complex surgical problems involving all areas of the body
- Daily patient care
- Oversee admission of patients and evaluation for surgical care
- Organization of teaching conferences and rounds
- Assigning resident staff work-ups and operative responsibilities

Perform the following operative procedures:

- Redo abdominal surgery
- Major complex GI surgery (i.e., fistula resection)
- Gastric procedures
- Major small bowel resections
- Common duct exploration
- Complex abdominal wall reconstruction

**Interpersonal and Communication Skills**

PGY-1 and PGY-2 residents will develop and refine their individual style when communicating with patients.

- They will strive to create ethically sound relationships with patients, the physician team, the care team and the supporting hospital personnel. They will effectively communicate through accurate and complete notes on the electronic medical record.
- They will exhibit listening skills appropriate to patient-centered interviewing and communication.
- Residents will be able to communicate with patients concerning end-of-life decisions.

PGY-6 residents will exhibit team leadership skills through effective communication as a team manager.

- PGY-6 residents are expected to assist junior peers, medical students and other hospital personnel to form professional relationships with support staff. Residents will respond to feedback in an appropriate manner and make necessary behavioral changes. Residents should be able to negotiate nearly all difficult patient encounters.
- PGY-6 residents should function as team leaders with decreasing reliance on attending physicians.
**Professionalism**

- All residents will demonstrate integrity, accountability, respect, compassion, patient advocacy, and dedication to patient care that supercedes self-interest. Residents will demonstrate a commitment to excellence and continuous professional development. They will be punctual and prepared for teaching sessions.
- Residents will demonstrate a commitment to ethical principles pertaining to provision or withholding clinical care, confidentiality of patient information and informed consent.
- Residents are expected to show sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

**Practice Based Learning and Improvement**

**PGY-1** and **PGY-2** residents will use hospital and University library resources to critically appraise medical literature and apply evident to patient care.

- They will use hand-held computer, desktop PC’s and internet electronic references to support patient care and self-education.
- They will model these behaviors to assist medical students in their own acquisition of knowledge through technology.

**PGY-6** residents will consistently seek out and analyze data on practice experience, identify areas for improvement in knowledge or patient care performance and make appropriate adjustments.

- They will regularly demonstrate knowledge of the impact of study design on validity or applicability to individual practice.
- PGY-6 residents will model independent learning and development and assist with the learning and development of junior residents.

**Systems Based Practice**

**PGY-1** residents will be sensitive to health care costs while striving to provide quality care. They will begin to understand the place of appropriate consultation for the best care of their patients.

**PGY-2** residents will understand and adopt available clinical practice guidelines and recognize the limitations of these guidelines. They will work with patient care managers, discharge coordinators and social workers to coordinate and improve patient care and outcomes.

**PGY-6** residents will out-of-hospital resources to assist patients with therapeutic plans. These senior residents are expected to model cost-effective therapy.