



## SURG 604 Trauma Surgery

### **Elective Description**

This elective will provide the student with an overview of transplantation, transplant immunology, and organ donation. The student will function as part of an integrated team.

Credit: 4 semester credits

Prerequisites: SURG 500

Elective Structure: Students will develop a foundation of knowledge and skills built upon basic science knowledge needed in the area of General Surgery, regardless of the specialty chosen for post-graduate training. Emphasis will be placed on:

- Surgical patient management
- Performing the history and physical examination
- Understanding trauma and potential for rapid decompensation
- Devising a differential diagnosis for presenting complaints
- Applying appropriate diagnostic technology
- Extending wound care management knowledge
- Enhancing of surgical and suturing techniques
- Discriminating appropriate treatment modalities for surgical disease
- Recognizing unique trauma emergency
- Knowledge of basic surgical procedures
- Knowledge of anatomy and basic sciences
- Knowledge of pathogenesis of surgical pathology in understanding therapeutic options and protocols
- Knowledge of goals in conservative medical management of surgical pathology
- Discerning when to operate and when not to operate in surgical pathology
- Knowledge of surgical complications and their management
- Demonstrate motivation to learn, show appropriate assertiveness, flexibility, adaptability toward education

### **Entrustable Professional Activities**

As a fourth-year student, the focus of skills development are those tasks important for entering residency training:

- Gather a history and perform a physical exam
- Prioritize a differential diagnosis following a clinical encounter
- Recommend and interpret common diagnostic and screening tests
- Enter and discuss orders and prescriptions
- Document a clinical encounter in the patient record
- Provide an oral presentation of a clinical encounter
- Form clinical questions and retrieve evidence to advance patient care

- Give or receive a patient handover to transition care responsibility
- Collaborate as a member of an inter-professional team
- Recognize a patient requiring urgent or emergent care and initiate evaluation and management
- Obtain informed consent for tests and/or procedures
- Perform general procedures of a physician
- Identify systems failures and contribute to a culture of safety and improvement

## General Course Objectives

### Medical Knowledge

- Review the patient presentations and be familiar with different types trauma and injuries to all the body systems- such as GI trauma, neuro trauma, cardio-vascular trauma, thoracic trauma etc.
- Knowledge and understanding of trauma protocols
- Knowledge and understanding of trauma pathology
- Acknowledge important differences in pediatric trauma and trauma in pregnant women
- Knowledge of ICU and critical care
- Airway management
- Knowledge of BLS and ATLS
- Demonstrate rationale for ordering laboratory and radiological tests
- Demonstrate proficiency in interpreting common laboratory tests (CBC, electrolytes, blood gases, urinalysis, coagulation tests)
- Interpret common radiologic tests (CXR, KUB, UGI, BE, bone, nuclear tests, US, CT)

### Patient Care

- Perform complete history and physical examinations on new admissions
- Independently establish a differential diagnosis and formulate management plan
- Write admitting and daily patient diagnostic and therapeutic orders under the supervision of a Resident and/or Attending physician
- Generate appropriate written documents - placing a H and P, consult or SOAP note daily in patient's chart, sick notes; excuse notes
- Evaluate patients on a daily basis on morning rounds under the supervision of a resident and attending physician.
- Rapid Assessment and initiation of management of acutely ill surgically patients
- Perform and improve various basic procedures
  - Venipuncture
  - Placement of intravenous catheter
  - Insertion of urethral (Foley) catheter
  - Insertion of nasogastric tube
  - Removal of surgical drains
  - Placement of chest tubes
  - Perform and F.A.S.T
  - Closure of surgical incisions - describe different sutures and selection process
  - Removal of suture/staples
  - Dressing changes
  - Perform basic bed side procedures i.e. debridement, superficial skin biopsies, needle aspirations
- Be able to perform basic operating room requirements and sterility protocols (aseptic techniques, scrubbing, gowning, gloving, prepping, and draping)
- Be able to perform Basic Life Support techniques in the acute setting

### Interpersonal and Communication Skills

- Be proactive in acquiring communication skills
- Demonstrate cultural sensitivity
- Present patient data (observations or topic reviews) effectively and succinctly
- Be able to effectively communicate with management team - attending, residents, and with auxiliary staff
- Communicate effectively with patients and families and be able to answer pertinent questions on disease process
- Must be able to accept feedback and critique and be able to adapt and learn
- Be proactive and introduce self to patients, attending, residents, other physicians, nurses, staff etc.
- Display a sense of responsibility and be respectful to patients, family, staff and peers

#### Professionalism

- Demonstrate commitment to professional responsibilities and ethical principles, and sensitivity to a diverse patient population and cultures
- Reliable, punctuality, prompt response and be available to pages when called
- Maintain a professional appearance – well-groomed and appropriate professional dress
- Must have appropriate professional attitude; be cooperative; be receptive to feedback
- Demonstrate commitment to continuity of care

#### Practice-based learning

- Demonstrate motivation and desire to learn
- Demonstrate the ability to learn from practice
- Critique personal practice outcomes appropriate for level of training
- Demonstrate recognition of the importance of lifelong learning in Medical/Surgical practice
- Seek and respond appropriately to feedback

#### Systems-Based Practice

- Demonstrate an appreciation for collegial interaction necessary for teamwork on the surgical service
- Demonstrate and advocate for quality patient care and patient safety
- Follow policy and procedures set forth by the health care facility and departments within that facility
- Attend all required orientations at rotating facility and complete required paper work, obtain badges and appropriate access
- Report to appropriate institutional authority when there are absent or unable to attend clinical guidelines orientation
- Demonstrate a willingness to participate in a team approach to health care and patient well-being.
- Know where to go for help - personal and professional

### **RECOMMENDED TEXTBOOKS and Other Resource Material**

Doherty GM. 2015. Current Diagnosis and Treatment: Surgery, 14<sup>th</sup> edition. Lange McGraw Hill.

Pestana C. 2018. *Dr. Pestana's Surgery Notes*, 4<sup>th</sup> edition. Kaplan Medical.

Brunnicardi FC. 2019. *Schwartz's Principles of Surgery*, 11<sup>th</sup> edition, McGraw Hill.

Mattox KL, EE Moore, DV Feliciano. 2013. *Trauma*, 7<sup>th</sup> edition, McGraw Hill.

Peitzman AB, M Rhodes, CW Schwab, DM Yealy, TC Fabian. 2013. *The Trauma Manual: Trauma and Acute Care Surgery*, 4<sup>th</sup> edition, Lippincott, Williams & Wilkins.

## **Evaluation**

The evaluation will include the entrustable professional activities. The clerkship preceptor will evaluate those relevant to this clerkship experience.

## **GRADES**

This elective is graded Satisfactory/Unsatisfactory.

*Note:* Students may take the NBME Advanced Surgery Exam for Honors and High Pass consideration.

## **POLICIES**

### **ACADEMIC DISHONESTY**

The University holds its students to the highest standards of intellectual integrity. Therefore, the attempt of any student to pass any examination by improper means, present work which the student has not performed or aid and abet a student in any dishonest act may result in disciplinary action including immediate dismissal. Any student witnessing or observing a perceived violation of academic dishonesty is required to report it as outlined in the Guidelines. Students failing to report an observed violation may also receive disciplinary action.

### **ATTENDANCE POLICIES**

Attendance of lectures and laboratories is based on the University's stated attendance policy. Refer to the Student handbook for more information.

### **CONDUCT**

The University expects all students to be responsible individuals who possess the highest standards of integrity, honesty and personal conduct. These traits are prerequisites to independent learning, professional development, the successful performance of academic and clinical assignments, and the conduct of one's personal life. Accordingly, students are expected to adhere to a standard of behavior consistent with the University's high standards at all times off and on campus. Compliance with institutional rules and regulations, in addition to city, state and federal laws, is expected.

### **COPYRIGHT POLICY**

Trinity Medical Sciences University must respect and observe the right and privileges of copyright holders, obey the United States Copyright Act and preserve the integrity of its internal network systems. All students must sign the technology and software use policy. A copy of this policy may be obtained from the Information and Technology Department.

### **DRESS CODE**

All students are expected to maintain the highest standards of professional appearance at all times. During years one and two and while on campus. Medical students are required to wear scrubs or white coats with appropriate dress. Appropriate dress for clinical students includes business slacks with open-collar shirt for men, and business slacks or skirt with professional shirt or sweater for women.

## **Trinity School of Medicine Faculty Contact Information**

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