



ANES 601

Pain Management

Elective Description

The purpose of this elective is to prepare students to develop rational drug therapy and interventional options for patients with pain and other symptoms in patients with and without advanced illness, including those near end-of-life, as well as develop plans for monitoring pharmacotherapy in these patients.

Credit: 4 semester credits

Prerequisites: SURG 500 and ANES 600

Elective Structure. The pain management clinical experience takes place in a wide variety of settings. The availability of a multitude of potential experiences allows flexibility to individualize the clerkship and accommodate learning needs. Potential for individualization is considered a valuable component of any high-quality educational experience. Due to the variability of experiences at different sites, students should inquire about specific opportunities at sites of interest.

Students may rotate in elected clinical settings to fulfill course requirements. Anesthesiology preceptors will specify site requirements and see that students are provided with an appropriate level of clinical and didactic experiences. In order to successfully complete the clinical experience, all students must fulfill requirements specified by their preceptors. In fulfilling these requirements, students will gain an appreciation for appropriate utilization of a variety of diagnostic and treatment modalities.

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

- Describe the common sources and key features of acute and chronic pain.
- Describe the methods of assessing acute and chronic pain.
- Describe the hormonal and physiologic stress responses to pain.
- Describe the role of opioids in pain management and acute and physiologic effects of opioids including tolerance, and features of opioids in surgical pain management.
- Demonstrate knowledge of the different types of pain management, including:
 - PCA
 - Epidural catheters
 - Prn vs round-the clock dosing
 - PO medications
 - narcotics
 - acetaminophen
 - NSAIDS
- Describe the features of intravenous opioid patient-controlled analgesia, including benefits, contraindications and how PCA relates to the concept of the “Minimal Effective Analgesic Concentration.”
- Describe the features of analgesic adjuncts to opioids such as NSAIDs, ketamine, alpha-2 agonists and gabapentin, and their role in acute surgical pain management.
- Describe the role of neuraxial analgesia in acute surgical pain management, including mechanism of action, benefits, side-effects, and contraindications.
- Describe the role of peripheral nerve blockade in acute surgical pain management.
- Describe the challenges and general treatment principles of acute pain management in opioid tolerant patients.

Patient Care

- Demonstrate knowledge of procedures and observe induction of anesthesia for pain management.

Interpersonal and Communication Skills

- Describe the Anesthesiologist's considerations in evaluation of the patient with pain.

Practice Based Learning

- Demonstrate understanding of the principles and practice of pain management monitoring.

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.

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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