

MEDICAL STUDENT CLERKSHIP

<https://health.ucdavis.edu/anesthesiology/education/clerkship/index.html>

ANE 430 – INTRO TO ANESTHESIOLOGY & PERIOPERATIVE MEDICINE

This is an introductory course to anesthesiology during the MS3 year, with the emphasis on introducing students to the field of anesthesiology and the day-to-day practice of an anesthesiologist in the perioperative setting. Students will be exposed to a wide variety of patient care scenarios surrounding perioperative care of our patients coming to the OR for surgical procedures. The course content and learning objectives provide the student with the unique opportunity to gain experience in delivering patient care in the perioperative context. The fast-paced and goal-directed nature of the perioperative arena affords numerous opportunities to develop and improve interpersonal communication skills as well as professionalism through multidisciplinary collaboration. Duration: Two-week rotation
IOR: David Li, MD and Paul Frank, MD

ANE 435 – PRIMARY CARE MULTIDISCIPLINARY PAIN MANAGEMENT

This rotation will give 3rd year TEACH-MS students an overview of the scope of Pain Medicine. During the 2-week rotation, students will become familiar with the criteria used to refer patients to the pain management service and learn to work with other specialties in the management of patients with acute and chronic pain. The rotation will offer a diverse clinical and didactic experience intended to stimulate trainees to go beyond the facts of what is known in pain management and to inquire of what is yet to be known. Medical students can expect to be exposed to the full range of pain treatments from interventional to medical, benign to cancer, and from a medical model to behavioral rehabilitation. The training experience is substantially integrated with didactic and interactive teaching sessions focused toward both understanding basic foundations of pain management and critically reviewing the current clinical and basic science literature. Our core faculty collectively has formal training in Pain Management as well as Anesthesiology, Internal Medicine, Physical Medicine & Rehabilitation, Psychiatry, Psychology as well as basic science research. Collaborations with almost every other service at UCDMC offer our students an extremely diverse experience. Pre-requisites: Completion of preclinical years and passage of Step 1.
IOR: Naileshni Singh, MD

ANE 460 – FOURTH YEAR MEDICAL STUDENT ELECTIVE

This elective is intended to broadly introduce the senior medical student to the specialty of anesthesiology in the context of perioperative medicine, spanning preoperative evaluation, intraoperative management, and immediate postoperative care. Students work directly with residents & attendings in the operating room; reasonable emphasis is placed on "hands-on" clinical work, within the limits of patient safety, time, and efficiency.

Duration: Four-week rotation held every four weeks, May 2022 - April 2023 except June 2022

IOR: David Li, MD

ANE 461 – PERIOPERATIVE MEDICINE

This course will provide the student with a broad exposure to various patient care services within the Department of Anesthesiology and Pain Medicine so that you'll be better equipped to apply your medical knowledge to safely care for patients. The student will learn about the preoperative evaluation, basic principles of anesthesia, and management of acute postoperative pain.

Duration: Two-week rotation held every four weeks, May 2022 - April 2023; except June - July 2023

IOR: Brian Pitts, MD

ANE 462 – PERIOPERATIVE MANAGEMENT OF THE OBSTETRIC PATIENT

This is an anesthesia subspecialty rotation focusing on the pre-, intra- and post-operative care of patients undergoing obstetric procedures. While significant emphasis will be given to understanding maternal and fetal physiology during obstetric procedures and its implications on anesthesia, medical students will also follow obstetric patients throughout perioperative period with instruction from anesthesiologists, and obstetricians. Knowledge and skills obtained during the rotation are applicable to general anesthesia and regional anesthesia. Duration: Two-week rotation held every four weeks, starting May 2022- April 2023
IOR: Cristina Chandler, MD & Maria Cristina Gutierrez, MD

ANE 463 – MULTIDISCIPLINARY PAIN MANAGEMENT

The clerkship offers a daily mix of formal and informal educational experiences. Since pain is a prevalent feature in treating all patients, this rotation is intended to offer training for students interested in any clinical specialty. Collaboration with almost every other service at UC Davis Medical Center offers our students an extremely diverse experience. Students will be exposed to nerve and joint block techniques such as epidural injections, sympathetic nervous system blocks (stellate ganglion blockade, lumbar sympathetic blockade and intravenous phentolamine), facet blockade, as well as sacroiliac joint injections and intravenous lidocaine infusions. They will be directly involved with the practice of contemporary multidisciplinary pain management including acute, chronic, cancer pain, outpatient nerve blocks, and clinic. Students will work with Attending Staff and be exposed to contemporary thinking in pain treatment from disciplines of Anesthesiology, Internal Medicine, Physical Medicine & Rehabilitation, Psychiatry, Psychology as well as basic science research. Students are also expected to attend all daily morning and afternoon didactic teaching sessions.

IOR: Naileshni Singh, MD

ANE 464 – MULTIDISCIPLINARY APPROACH TO THE NEUROSURGICAL PATIENT

This anesthesia subspecialty rotation focuses on the perioperative care of patients undergoing neurosurgery. While significant emphasis will be given to understanding central nervous system physiology during neurosurgical procedures and its implications on anesthesia, medical students will also follow neurosurgical patients throughout the perioperative period with instruction from anesthesiologists, neurosurgeons, and neurointensivists. Knowledge and skills obtained during the rotation are applicable to general anesthesia, neurosurgery, and management in neurological intensive care settings.

Duration: Two-week rotation held every four weeks, May 2022 - April 2023; except June 2023

IOR: Nina Schloemer Kemper, MD

ANE 490 – ASSESSMENT & MANAGEMENT OF SPINAL PAIN

This Distance Learning Didactic Elective is designed to increase the competency of pre-licensure Medical Students in assessing and treating spinal pain.

This course will also review the pathophysiology, clinical assessment, and management of the following topics: lumbar spinal pain, cervical spinal pain, differential diagnosis and differentiation between sacroiliac/hip/shoulder joint pain, medication management with risk assessment, and non-pharmacological treatments including interventional pain procedures, acupuncture, and psychological support. It is designed to (a) Improve knowledge on common conditions that many types of providers will see in clinical practice. (b) Foster skills in lifelong learning by use of evidence-based medicine. (c) In-person clinical time will give students the chance to apply clinical knowledge to patient care. (d) As an asynchronous course, students are required to be responsible for coursework on their own.

Requirements: 18 hours of self-study; 6 hours of online lectures; 16 hours of in-person clinical experience; pre and post test.

Duration: Two-week rotations held from May 30, 2022 through March 10, 2023.

IOR: Chinar Daivesh Sanghvi, MD

ANE 493A – APPLIED PHYSIOLOGY & PHARMACOLOGY

This course will review and demonstrate the application of basic physiology and pharmacology to patient care. Areas of particular focus include the cardiovascular, pulmonary and central nervous systems in both adult and pediatric patients. The material will be taught with a combination of lectures (by faculty and students), "Journal club" review of literature, pro/con debates and through practical applications both in the operating room and Center for Virtual Care. The students will spend maybe a half day/week in the OR to re-enforce the application of physiology and pharmacology as used to manage anesthetized surgical patients.

Duration: Four-week rotation, offered in February 2023

IOR: Nicole Weiss, MD

ANE 499 – RESEARCH ELECTIVES

This elective is designed to introduce medical students to research within the field of anesthesiology and provide exposure to a variety of research designs and methodologies. Students will be given the opportunity to participate in ongoing clinical or database research projects or they may pursue and design independent projects. The activities that take place during this course will vary, depending upon the student's interest, the research project chosen and the stage in which that project stands. They may include protocol design and development, IRB application assembly and submission, patient recruitment, live or retrospective data collection, data analysis or project summary and presentation.

Duration: Custom rotation periods – 2, 4, 8 to 12 weeks longitudinal

IOR: Richard L. Applegate II, MD, FASA; Neal W. Fleming, MD, PhD