

# 630D Advanced Emergency Medicine

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**Course Name** Advanced Emergency Medicine

**Course Director** Sangeeta Sakaria, MD

**Academic Year** 2020-2021

## 1. Course Director, Coordinator and General Administrative Information

### FACULTY AND STAFF

Name	Office Location	Phone	Email
Director: Sangeeta Sakaria, MD	UC Irvine Department of Emergency Medicine 333 City Blvd W., Suite 640, Orange, CA, 92868	714-456-5239	<a href="mailto:sakarias@hs.uci.edu">sakarias@hs.uci.edu</a> (preferred)
Assistant Director: Gabe Sudario, MD	UC Irvine Department of Emergency Medicine 333 City Blvd W., Suite 640, Orange, CA, 92868	714-456-5922	<a href="mailto:gsudario@hs.uci.edu">gsudario@hs.uci.edu</a> (preferred)
Coordinator: Sonia Portillo	UC Irvine Department of Emergency Medicine 333 City Blvd W., Suite 640, Orange, CA, 92868	714-456-5922	<a href="mailto:soniaep@hs.uci.edu">soniaep@hs.uci.edu</a> (preferred)

### DESCRIPTION

The goal of the 630D clerkship is introduce students to principles of acute care medicine. Students have the opportunity to evaluate patients and formulate effective testing and treatment strategies. Active participation in patient care and procedural skills are emphasized. The course consists of experiences in patient care, assigned readings from emergency medicine references, weekly conferences, and simulation sessions.

### PREREQUISITES

This clerkship is intended for fourth year students enrolled in the undergraduate medical education program at University of California, Irvine School of Medicine (UCISOM) and for extramural students invited to the clerkship blocks.

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**RESTRICTIONS:** Duration: All 630D Students must attend 4 consecutive weeks

**COURSE DIRECTOR**

**Dr. Sakaria** is an Assistant Clinical Professor of EM, Director of the EM Clerkship at the UC Irvine School of Medicine, Assistant Program Director for the Emergency Medicine residency, a Dean's Scholar at UC Irvine School of Medicine, and the Medical Director of the Emergency Department at Catalina Island Medical Center

**Dr. Sudario** is an Assistant Clinical Professor of EM and the Assistant Director of the EM Clerkship.

**Sonia Portillo** is the Emergency Medicine Clerkship Coordinator [630D, in addition to her duties as Clinical Informatics and International Fellowship Coordinator] within the UC Irvine Department of Emergency Medicine.

**INFORMATION FOR THE FIRST DAY**

Typically scheduled on the 1st Monday of your rotation with the Clerkship Coordinator

Location:

City Tower: 333 City Blvd. West, Suite 640, Floor 6, Orange, CA 92868

Time: 8:30 a.m.

**CLINICAL SITE:** The Emergency Department at the UCI Medical Center.

**DURATION:** 4 weeks

**Scheduling Coordinator:** UC Irvine students please call (714) 456-8462 to make a scheduling appointment.

Extramural students enrolled at a U.S. LCME medical school must use VSAS to apply. To apply please refer to this website <https://students-residents.aamc.org/attending-medicalschool/electives-and-make-courses/applyingaway-electives-vsas/>

**Blocks Available:** every 4 weeks through November. The time of the course must be pre-approved by the elective director at least 3 months prior to the start of the course. No exceptions.

**NUMBER OF STUDENTS ALLOWED:** Varies throughout the academic year.

**WHAT STUDENTS SHOULD DO TO PREPARE FOR THE COURSE**

## **OVERVIEW**

Students on rotations with direct patient care, such as emergency medicine, **work the exact schedule the team works** (including day, night, weekend, and holiday shifts). Please note that **vouchers** for days off are **not valid for EM rotations**.

## **HOW TO PREPARE**

- Review the welcome email sent to you by the coordinator with details and links regarding your course
- Review the rotation schedule
- Read the syllabus and browse the reading material
- Have appropriate attire:
  - Clean scrubs. Visiting students can use matching scrubs from their institution and school ID badge
  - White coat and stethoscope
  - No hoodies
  - We recommend professional attire for conference
  - You can also use UC Irvine SOM scrubs purchased from the UCI bookstore

## **FIRST DAY (First Monday from 8 am - noon) - Mandatory!**

Orientation is held on the first Monday of the rotation at 8:30 a.m., in City Tower: 333 City Blvd W, Suite 640, Orange, CA 92868

- Sign the [Attestation of Clerkship Requirements](#) **before the end of the day**

## **FIRST SHIFT**

Check your schedule and report to the attending in the Emergency Department.

- You can usually track them down in the Resident Workroom
- If the faculty attending on your schedule has swapped out, please join the new faculty attending on same shift

## **ON-SHIFT ACTIVITIES & WORKFLOW**

Log into EPIC and assign yourself the patient with the red-boxed column. Read the nursing triage note and note the vital signs.

Inform the attending before seeing the patient.

- Example: "Dr. Sakaria, I see a patient with Chest Pain -- can I assign them to myself?"

Students will work under the direct supervision of EM attending. It is intended that the students participate actively in the evaluation and management of patient cases, assuming more responsibility as their level of comfort and expertise develops. Students are not to be observers on this rotation. There are no minimum or

maximum numbers of patients to be seen in a typical clinical session. This should be determined by the student's abilities, time, and their supervising physician.

**IMPORTANT**

If at any point, you identify an unstable patient, either from the board or at the bedside, immediately notify the attending.

Please introduce yourself to the patient as a fourth-year medical student. Always address your history and physical so that it is focused on the patient's chief complaint. After completing the initial assessment of your patient, type your medical documentation into patient chart in medical student documentation note on EPIC then present the case with the attending to formulate a plan. The presentation should take about 3-5 minutes. Once attending approves the plan, you can inform the nurse assigned to the patient of this plan. Do not order tests or administer medications without first discussing the plan with the attending. If at any time, you feel that a patient is very sick, or you do not feel comfortable managing a patient, please let the attending know right away.

Reassess your patient periodically and give updates on care frequently. Note any change in your patient's condition and inform your attending immediately.

If any consultants are called, note the name of the consultant, their department, pager number and the time they were called. You are expected to consult the other specialties or perform the hand-off of patients to admitting team.

**PATIENT SIGN-OUTS:**

Patient sign outs from the medical student go directly to the attending and not to the incoming student.

**END OF SHIFT:**

Before you leave your shift, make sure that

1. You log all cases and procedures at the end of each shift.
2. Sign out any active patients to the oncoming attending.
3. The attending should evaluate you and complete your end-of-shift evaluation using the Qualtrics link in EPIC as well as the paper NCAT form. It is recommended to ask the attending to complete the evaluation two hours before your shift ends. Email program coordinator at end-of-shift if the faculty has not completed this for you.

When appropriate, the attending will indicate when you may leave.

**ROLES AND RESPONSIBILITIES**

- Students are expected to attend/arrive on time to all mandatory activities: orientation, all assigned shifts, Wednesday conferences/SIM Sessions/MS SIM Sessions, mid-clerkship feedback and other didactics. Journal club is optional but recommended.

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- Students are expected to complete all assigned case logs, procedures logs, alternative tasks, and evaluations.
- It is the emergency physician’s job to take a full history, perform a physical exam, and obtain the tests that will elucidate the cause of the patient’s complaint. Upon doing so, the physician must either treat the patient or refer him/her to the appropriate follow up care. A trained emergency physician is able to handle not only traumas, but also almost every other imaginable acute and non-acute problem. Because most hospital admissions come through the Emergency Department (ED), it is imperative that the Emergency Medicine (EM) physician have a good grasp of most fields of medicine.

**COMMUNICATION WITH FACULTY**

Questions about logistics should be directed to the Clerkship Coordinator. Direct questions, comments, or concerns about the course can be directed to the Clerkship Director or Assistant Clerkship Director. Contact information and office location are at the beginning of this document.

The Clerkship Director and Assistant Clerkship Director are also available to meet in person. Please email the clerkship coordinator to arrange an appointment. To ensure that your email will not be lost in the large volume of email received, please use the following convention for the subject line:

SUBJECT: COURSE NAME, your last name, your issue (e.g. XXX, Smith, Request for appointment)

**2. Course Objectives and Program Objective Mapping**

The following are the learning objectives for the Emergency Medicine clerkship. Students are expected to demonstrate proficiency in these areas in order to satisfactorily complete the rotation. In addition, the extent of a student's mastery of these objectives, will help guide the clinical /course evaluation and grade.

<b>Course Objective</b>	<b>Mapped UCI School of Medicine Program Objective</b>	<b>Sub Competency</b>	<b>Core Competency</b>
EM-1. Develop an appropriate differential diagnosis for a variety of patient presentations.	A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes	Basic Clinical Skills	Knowledgeable

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EM-2. Formulate a plan to safely make or rule out these diagnoses prior to disposition of the patient	A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes	Basic Clinical Skills	Knowledgeable
EM-3. Acutely evaluate and manage a wide range of symptoms and conditions	A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes	Basic Clinical Skills	Knowledgeable
EM-4. Describe the full extent and complexities of a patient's past medical history and current social situation	B-1. The ability to competently conduct a medical interview and counseling to take into account patient health beliefs, patient agenda and the need for comprehensive medical and psychosocial assessment	Medical Interview	Skillful
	C-3. Sensitivity and awareness of diverse cultures, health beliefs and social factors impacting patient health and illness	Cultural and Social Awareness	Altruistic
EM-5. Manage timely patient evaluation, treatment, re-examination, and disposition	B-2. The ability to competently perform a complete and organ-system-specific examination including a mental health status examination	Physical Exam	Skillful
EM-6. Assess patient understanding about	B-3. The ability to articulate a cogent,	Patient Management	Skillful

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workup and treatment, admission or discharge, and when appropriate, follow up and return precautions.	accurate assessment and plan, and problem list, using diagnostic clinical reasoning skills in all the major disciplines		
EM-7. Demonstrate a high level of professionalism throughout the rotation when interacts with other healthcare providers and patients	C-1. Honesty and integrity reflecting the standards of the profession, in interacting with colleagues, patients, families and professional organizations	Professionalism	Altruistic
EM-8. Demonstrate a caring bedside manner and provide clear explanations of the medical workup and treatments provided	D-2. A commitment to patient care and to the well-being of patients and colleagues	Patient Care	Dutiful
EM-9. Practice the key elements of efficient and productive communication with consultants.	C-1. Honesty and integrity reflecting the standards of the profession, in interacting with colleagues, patients, families and professional organizations	Professionalism	Altruistic
	B-6. The ability to function effectively within the context of complexity and uncertainty in medical care	Patient Management	Skillful
EM-10. Students will communicate and collaborate effectively, both orally and in writing, with patients, patients' families, colleagues, and interprofessional teams with whom physicians must exchange information in carrying	A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning	Basic Clinical Skills	Knowledgeable
	C-1. Honesty and integrity reflecting the standards of the	Professionalism	Altruistic

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out their responsibilities.	profession, in interacting with colleagues, patients, families and professional organizations;		
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### 3. Course Resources

















Below are suggested education links:

- <http://www.uptodate.com/home>
- <https://www.aliem.com>
- <https://cdemcurriculum.com>
- <https://lifeinthefastlane.com>
- <http://embasic.org>
- <http://emedicine.medscape.com/> (Links to an external site.)
- <https://www.nejm.org/case-studies-in-social-medicine> (Links to an external site.)
- <http://www.idheal-ucla.org/page-12/> (Links to an external site.)

#### **TEXTS AND READINGS: SUPPORTING AND REVIEW**

Texts include: "The Clinical Practice of Emergency Medicine," fourth edition, by Ann Harwood-Nuss et al., "Emergency Medicine, A Comprehensive Study Guide," fifth edition, by Judith E Tintinalli et al., "Clinical Procedures in Emergency Medicine," third edition, by Roberts & Hedges et al., "The Radiology of Emergency Medicine," fourth edition, by John H Harris, et al.




Assigned Readings from Emergency Medicine References are suggested:

- [Acute Abdominal Pain](#) 
- [Altered Mental Status](#) 
- [Basic Resuscitation](#) 
- [Chest Pain-Cardiac or not](#) 
- [Emergency Care of Children](#) 
- [Nausea and Vomiting](#) 
- [Pediatric Fever](#) 
- [Respiratory Distress](#) 
- [Seizure](#) 
- [Septic Shock](#) 
- [Syncope](#) 
- [Trauma in Adults](#) 
- [Trauma in Children](#) 
- [Vaginal Bleeding in Pregnancy](#) 
- [Vertigo](#) 
- [Wound Care](#) 



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- [Chest Pain Chapter, from Cardiovascular Emergencies, ACEP 2015](#) 
- [The Neurologic Examination in the ED](#) 
- [Download the COMPLETE PDF of References](#) 

### ADDITIONAL RESOURCES

- Touch Surgery: <https://live.touchsurgery.com> (Links to an external site.)[Links to an external site.](#)
- Board Review Questions: <https://www.emra.org/Resources/Board-Review-Questions/> (Links to an external site.)[Links to an external site.](#)
- UCI iTuneU Emergency Department: <https://itunes.apple.com/us/itunes-u/emergency-medicine-lectures/id429668393?mt=10> (Links to an external site.)[Links to an external site.](#)
- Recommended Blogs and Podcasts: <https://www.emra.org/Resources/Recommended-Blogs-and-Podcasts/> (Links to an external site.)[Links to an external site.](#)

## 4. Major Exams, Assignments and Grading

### OBSERVED H&P

All students will be observed completing a history and physical.

- To obtain the form click [here](#)

### WEB-BASED NBME SHELF EXAM

UCI students will take the NBME shelf exam toward the end of the rotation. The exam will be administered according to [Exam Administration and Procedures](#) in the [Student Handbook](#) for testing. The test will be proctored.

The NBME subject examination for Emergency Medicine will run for 2 hours and 30 minutes. Your score will be compared to a national percentile. The [Requirements to Pass the Specialty-specific NBME Shelf Exam](#) can be found in the [Student Handbook](#).

### GRADING

Your clinical performance will include input from your assigned faculty members and house officers. They use a standardized feedback format that assesses for knowledge, skills, and attitudes. They will give written feedback on this form.

1. **Orientation**
2. **Attestation Form [Due by end of Orientation Day]**
3. **Hand Hygiene and Fall Prevention Videos:** Must view the Hand Hygiene and Fall Prevention videos available.
4. **Wednesday Resident Conference OR Resident Simulation Center:** Please note that attendance and participation is required and will be reflected in your final grade. First three (3) hours are joint conference with residents; remaining two (2) hours are team-based learning/education sessions with a faculty

attending. If you cannot attend the Wednesday conference, please inform the clerkship director and arrange the make-up attendance with clerkship coordinator.

5. **Education Sessions/ Medical Student SIM:** Please note that attendance and participation [unless otherwise indicated] is required and will be reflected in your final grade. Attendance is recorded via completion of all videos, readings, and evaluations.
  - **iTunes Summarized Pearls:** Completion of assignment is required if a resident conference is cancelled. Students are required to complete 3 topics of their choice on iTunes and submit 3 pearls for each topic to the clerkship coordinator by 5pm on the Friday of the same week as the cancelled conference.
6. **Patient Case Diagnosis Logs [New Innovations]:** All patient case diagnosis logging will be completed electronically in New Innovations. You need to log all 7 required cases. 100% completion of case logging, real patients or alternative method, is a requirement of the rotation. Consult with Dr. Sakaria if you feel you may not be able to fulfill the requirements and an alternative method assignment will be given. This is required to pass the rotation.
7. **Patient Procedure Logs:** There is a recommended number of procedures to complete by the end of the rotation. Students should take the initiative to participate in or observe procedures, whenever an opportunity presents itself. These are logged on a paper form with initials. This form must be turned into the coordinator after the completion of your rotation in the ED.
8. **Assigned shifts/End-of-Shift Evaluations:** Satisfactory completion of shifts is required to pass the rotation and prompt attendance is required. At the end of each shift, students must request an evaluation from the attending, as this will be how students' shifts are recorded. The attending needs to complete, sign, and date the form in Qualtrics on EPIC at the end of each shift. This is required to pass the rotation. [16 total]
9. **NCAT-EM Evaluations:** At the end of each shift, students should also ask faculty to evaluate them using the [NCAT-EM form](#). The attending should then place the completed evaluation in Dr. Sakaria's mailbox. [16 total]
10. **End of Rotation Evaluations [New Innovations]:** You will be required to submit an anonymous End of Rotation Evaluation in New Innovations. We appreciate your feedback and take them very seriously for future improvements. [UCI Students: 2 total; first 2 weeks and second 2 weeks]
11. **MS Evaluation of Faculty [Intranet Evaluation System]:** You will be required to submit an anonymous attending evaluation for 3 attendings that you worked with during your rotation. We appreciate your feedback and take them into consideration for future improvements to the clerkship. [3 total]
12. **End of Rotation Exam:** UCI students will take the NBME exam, typically scheduled on the last Friday of the rotation.

13. **Five-minute Presentation:** Present a five-minute talk at resident conference on a topic within Social Determinants of EM. The topic will be selected on your orientation day.
14. **Honors:** To receive a grade of Honors, students must demonstrate exceptional performance and complete all required assignments (see detailed grid below). A grade of Honors will be given for superior performance (top 15%) based on clinical performance and participation in education sessions. Students must give a 5-minute presentation in order to be eligible for honors. All presentations must be e-mailed to the course director for credit.
  1. Performance – earn “exceeds expectation” on more than 50% of all evaluations
  2. Student must achieve “exceeds expectation” in over half of the specified categories
18. **Attire:** Your white coat, student ID and stethoscope are required at all times. Clean scrubs are preferred, but dress shirts/ties for males and slacks or skirts for females are an option. No hoodies. No open toe shoes.
19. **Rotation feedback:** You will be scheduled with a mid-clerkship feedback session with either the Clerkship Director or Assistant Clerkship Director. Either the Clerkship Director or Assistant Clerkship Director will be available on Wednesdays during conference for additional informal feedback, and both can be contacted by email for additional questions.

Medical Students are graded in the clerkship using the following scale: Honors (H), Pass (P), Fail (F) and Incomplete (I). For further information, review the [Grading Policy](#).

***Requirements for “Pass”:***

- Orientation Attendance
- ED Onsite Orientation Attendance
- Task Training
- Review of Hand Hygiene and Fall Prevention Videos
- Resident Conference/Simulation Session Attendance
- MS SIM Session Attendance
- Education Sessions/Flipped Classrooms Attendance/Medical Student SIM (including evaluations/videos)
- iTunes Assignment [if assigned in lieu of cancelled conference/SIM]
- Patient Case Diagnosis Logs
- Procedure Log
- Shift Attendance & Shift Evaluations [total: 16]
- Medical Student Documentation Feedback Form [total: 4]
- End of Rotation Evaluations
- MS Evaluation of Faculty
- End of Rotation Shelf Exam - NBME

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- Journal Club (Optional)
- Honors Case Presentation (Optional)

**Requirements for “Honors”:** To receive a grade of Honors, students must demonstrate exceptional performance meeting all the following criteria:

<b>Clerkship Honors Criteria</b>	
Minimum total point percentage	<ul style="list-style-type: none"> <li>• 90%</li> </ul>
Pass/completion of the following required assignments	<ul style="list-style-type: none"> <li>• Online quizzes</li> <li>• Presentation</li> </ul>
Additional requirements	<ul style="list-style-type: none"> <li>• Minimum shelf exam percentile</li> <li>• Attend at all didactic sessions</li> <li>• No professionalism violations</li> </ul>

**Grounds for “Incomplete”:**

You will not be issued a grade until all elements of the clerkship/course have been completed.

**Grounds for “Fail”:** You will receive a grade of “Fail” if the requirements for passing the clerkship have not been met. Please refer to the [Grading Policy](#) for the impact of a “Fail” grade on your transcript.

**REMEDIATION**

Remediation, if needed, will be designed by the Clerkship Director to address the issues at hand. This can include repeating shifts or the entire rotation, additional assignments, or re-taking the shelf exam.