547 Emergency Medicine
This course is available to UC Irvine 4th year students only
Core Rotation for UC Irvine Students

Course Description: The objectives of the Emergency Medicine course are to 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 session.

Department: Emergency Medicine

Prerequisites: Successful completion of 1st to 3rd year curriculum.

Restrictions: UC Irvine Medical students only (Extramural Students Please look at 630D)

Course Director: Wirachin Hoonponsimanont, M.D. UC Irvine Medical Center, Department of Emergency Medicine, 101 The City Drive, South, Building 1A, Room 1009, Route 128, Orange, CA 92868, (714) 456-5239, whoonpon@uci.edu

Instructing Faculty: Michael Burns, MD, Bharath Chakravarthi, MD, Carrie Chandwani, MD, Chris Fox, MD, Wirachin Hoopongsimanont, MD, Warren Wiechmann, MD, MBA Robert Katzer, MD, Kristi Koenig, MD, Mark Langdorf, MD, Shahram Lotfipour, MD, Eric McCoy, MD, Megan Osborn, MD, Scott Rudkin, MD, Carl Schultz, MD, Jeffrey Suchard, MD, Andrew Wong, MD, Erik Barton, MD, Faried Banimahd, MD, Shadi Lahham, MD

Who to Report to on First Day: Dr. Hoon or Jessica Holland

Time to Report on First Day: First Monday of the rotation at 8 am for orientation at 333 The City Blvd. W., St. 640. Orange, CA, 92868. You should also view the orientation of our ED by visit this link. https://www.youtube.com/watch?v=ZGxU72nfruY&feature=youtu.be

Site Coordinator: Jessica Holland, UC Irvine Medical Center, 101 The City Drive South, Bldg. 1A, Rt. 128, 714-456-5922, jmhollan@uci.edu

Site: The Emergency Department at the University of California Irvine, Medical Center

Scheduling Coordinator: UC Irvine students please email comsched@uci.edu or call (714) 456-8462 to make a scheduling appointment

Periods Available: Every 2 weeks

Duration: 2 consecutive weeks

Number of Students: Variant throughout the academic year. Please contact registrar for more information

Course Objectives: Students are expected to conduct thorough but directed histories and physicals, and formulate a plan for workup and care of the patients that they see. Procedural skills (such as suturing, paracentesis, etc.) are taught and supervised on a case by case base as needed based on the
patient’s complaints and need for evaluation. All students are expected to introduce themselves as student physicians, and conduct themselves in a professional manner. These expectations are communicated to the students on the in-person orientation, however, by their fourth year of school, students are already conscious of these expectations. Students interact on a one to one basis with residents and faculty; therefore, their progress is monitored during each shift.

Key Topics:

- Ability to take directed history and do complete physical examination
- Formulate plan of workup and treatment
- Present cases directly to senior resident and attending physicians
- Learn techniques to improve procedure skills
- Follow patients from initial exam until disposition from the Emergency Department

Competencies:

- 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
- The ability to competently perform a complete and organ-system-specific examination including a mental health status examination
- The ability to articulate a cogent, accurate assessment and plan, and problem list, using diagnostic clinical reasoning skills in all the major disciplines
- The ability to search the medical literature, including electronic databases, and to locate and interpret up-to-date evidence to optimize patient care
- The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and wellbeing, to identify and treat disease early where appropriate and to advise on lifestyle practices
- The ability to function effectively within the context of complexity and uncertainty in medical care

Attitudes & Commitments:

- Honesty and integrity reflecting the standards of the profession, in interacting with colleagues, patients, families and professional organizations
- Professional behaviors reflecting compassion and respect for patient privacy, altruism and a commitment to comprehensive, holistic medical care
- Sensitivity and awareness of diverse cultures, health beliefs and social factors impacting patient health and illness
- The commitment to seek knowledge and skills to better serve the needs of the underserved in their communities

Scheduling: Monica Igbal will be making your schedule. You may swap shifts with other students if both approve and you notify Monica and Dr. Hoon. For every 2 weeks you are on service, you are will have total of 6 shifts. The R-3 and attendings have access to this schedule from any computer and expect the students to adhere to this. You are expect to be available to work in the ED for any shifts assigned to you during your two week rotation (Rotation starts on Monday morning and end on Sunday night)

Prior to your First Day: You will receive an information packet via email from Monica Igbal. Please review the packet and complete prerequisites prior the rotation start date. Read this syllabus and browse some of the reading material
Attire: UC Irvine SOM approved scrubs. We recommend professional attire for conference. Visiting students can use matching scrubs from their institution, with white coat, and school ID badge. You could also use UC Irvine SOM scrubs purchased from the UCI bookstore.

On shift Activities: This is a brief overview of how patients should flow through the emergency department (ED) & your responsibilities in the department.
Log into Quest and assign yourself the patient with the red boxed column. Type your name in medical student column. When you initially pick up the patient please note the vital signs. Inform the R3 or attending before seeing the patient. IMPORTANT: If at any point you identify an unstable patient either from the board or at the bedside please immediately notify the R-3 or attending.
Please introduce yourself to the patient as the fourth year medical student.
After completing the initial assessment of your patient, please discuss the case with the R3 to formulate a plan and then 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 R3 or 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 R3 or attending know right away. Always address your H&P so that it is focused on the patient's chief complaint.
Reassess your patient periodically and give updates on care frequently; note any change in your patient's condition and inform your R-3 immediately. You should not take on more than three acute ongoing patients at a time unless approved by the R3 or attending.
If any consultants are called, note the name of the consultant, their department, beeper number, and the time they were called. You are expected to consult the other specialties or perform the hand-off patients to admitting team.

PATIENT SIGN-OUT: patient sign outs from the medical student go directly to the R3 and not to the oncoming student.

SHIFT COMPLETION: Do not make the common mistake of leaving prematurely. Just because the scheduled shift time has arrived, this doesn't always mean its time to walk out the door. You will need to stay until all work-up with your patient(s) is complete and a final disposition (Admit, Discharge, Transfer, Etc...) has been made. When appropriate, the R3 or attending will indicate when you may leave.

Mandatory attendance

SHIFT ATTENDANCE: Before you miss a shift for medical reasons please call the senior resident on duty at 714-456-5705. All absences will be documented, and grades will be held until the absence is made up.

SHIFT TIMES: The rotation has two shifts, 7a -7p and 7p - 7a.

SCHEDULE CHANGES: As mentioned above schedule changes can be done by exchanging shifts with peers. Please keep the following in mind when considering schedule changes: Student lectures and all other educational experiences require attendance by students. Students cannot do more than one shift per day and cannot follow the evening shift by a morning shift. Shift changes should be e-mailed to Monica Iqbal and Dr. Hoon (whoonpon@uci.edu) and are subject to approval.

JOURNAL CLUB: is usually scheduled for the third Thursday of the month from 6:00 PM - 10:00 PM and attendance is encouraged for all students. The location varies and is usually the house of an ED attending or resident. You are excused from your shift to attend Journal Club but need to return to your shift as soon as it has ended. If you are interested in attending please RSVP with Ms. Iqbal know so
she can also get you a reading packet of articles. You will need to have read the articles prior to attendance at Journal Club.

CONFERENCE: Each Wednesday the EM residents have their academic forum from 7.30 am to 11.30 am. Breakfast is usually provided. We also have allotted time from 11.30 am to 12.30 am for student lecture. You will receive a reminder e-mail on when, where and what time the lectures are.

SIMULATION: You will attend at least one simulation session during your rotation. The session is held at the Medical Education Building in the UCI campus. Date and time will be determined and informed during the orientation.

ATTIRE: Your white coat, student ID and stethoscope are required at all times. Shirts/ties for males and slacks or skirts for females are preferred but clean hospital scrubs under your white coat are optional during night shifts.

Course Hours Weekly Summary:

4 Conference
2 Lecture
4 Simulation
36 Patient-Care Activities
46 Total

Content Theme Integration:

- Communication
- Decision Making
- Ethics
- Family Violence/Abuse
- Geriatrics
- Health Care Systems
- Pain Management
- Patient-Health Education
- Preventive & Health Maintenance
- Substance Abuse

Recommended and Required Reading:

At the minimum you should know what tests are needed and how to initially manage the following complaints/diagnoses:
- DKA, Atrial Fibrillation, hypertensive crises, acute bleeding, hyperkalemia, pneumonia, asthma, altered mental status, seizure, bowel obstruction, and sepsis

Try the following resources (in no semblance of order).

- Critical Care Medicine Tutorials, Life in the Fast Lane, CDEM Curriculum and Dr. Smith's ECG Blog are great online resources.
- The Clinical Practice of Emergency Medicine, fourth edition, by Ann Harwood-Nuss 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.
- Hamilton, Sanders, Strange and Trott. Emergency Medicine: An Approach to Clinical Problem-Solving, second edition by Saunders. This book is best used for reference during your rotation. June has a copy that you can check out at the beginning of your rotation but has to be returned on your last Friday of your rotation to her. You are responsible for hand delivering the book to the office during working hours in good condition without additional marks in it prior to completion of the rotation. From Hamilton, the sections below are recommended reading, with the highlighted sections as required reading during the rotation from Hamilton, but a similar chapter in any EM book will do.

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ASSIGNED SHIFTS: Satisfactory completion of shifts is required to pass the rotation and prompt attendance is required. There is a sign sheet for you to record your shifts. An attending or R3 needs to sign it when you arrive, and initial it when they give you feedback on how you are doing. This form must be turned in to Monica after the completion of your rotation in the ED. This is required to pass the rotation.

STUDENT LECTURES: Wednesday Conference location will be in 333 The City Bldv W, St 640 Conference Room from 7.30 am to 11.30 am. (But can change without notice, please check your emails daily for updates). Please note that student lecture attendance and participation is required and will be reflected in your final grade. There is a student lecture after conference. You are responsible to sign in to get credits for attending conferences.

SHIFT EVALUATION: During each shift, give the R3 or the attending you worked with an evaluation form. You will work most closely with the R3 in the main ED and the attending in ED3. If you work with an R3 more than one time, it might not be necessary to have them re-evaluate you. In such a case please indicate that on your day's evaluation and you can place them directly into the evaluation box in the ED. You need to have at least 1 attending evaluation and 2 R3 or R2 evaluations by the end of the rotation. These are rather in depth. Give your reviewer as much notice as possible prior to asking them, even if you are unsure. These forms are available on the website.

PATIENT LOG: A complete patient log of all patients seen should be kept and turned in upon the completion of the rotation. This form must be turned in to Monica after the completion of your rotation in the ED. This is required to pass the rotation.

PATIENT PROCEDURE LOG: When you perform procedures you will need to have them signed off by the attending/R3. This form must be turned in to Monica after the completion of your rotation in the ED. There are a required amount of procedures, but if an opportunity comes up where there is a procedure to be done we encourage you to take the initiative.

HONORS GRADE: Honors criteria for 547 required 2-week clerkship:

- Present a case presentation (lightening talk)

3/31/2016
• Receive clearly outstanding more than 50% of all evaluations on shift evaluations
• The case presentation will require an appropriate review of the literature and must be completed before the end of the rotation. The Course Director (Dr. Ying Hoon) ying.hoon@uci.edu is available by email or in person to help you prepare for the case presentation. All presentations must be e-mailed to the Course Director for credit.

GRADING CRITERIA

• 75% of your grade reflects your Clinical Performance as reflected by shift evaluations.
• 25% reflects your attendance and participation at weekly Student Conference and other educational experience

Rotation Feedback: The Course Director and Medical Student Education Chief are always available and encourage every student to meet with him during and immediately after the rotation to go over their progress and overall clerkship evaluation if they are concerned. Please let Monica know if you are interested in such a meeting.

End Rotation Evaluation: You will be given an end of the rotation evaluation to fill out. Return filled out evaluation to Monica once you have completed your rotation. We appreciate your feedback and take it very seriously for future improvements. You will have the opportunity of selecting the faculty and resident that contributed most to learning during your shifts on this rotation evaluation. These persons will be recognized by an award at the end of the year resident graduation.