633M Pulmonary MICU at LBVAMC

This course satisfies the ICU requirement for UC Irvine students
This rotation is not accepting international students
This course is available to UC Irvine students only

Course Description:
This is a four week rotation offered at UC Irvine Medical Center, LBVA and Long Beach Miller's Children Hospital. ICU is offered in medicine, surgery and pediatrics. Students function as sub-interns, becoming integral members of the ICU team, and serve as primary caregivers under supervision.

Department: Internal Medicine

Prerequisites: UC Irvine students must have successfully completed the 1st, 2nd and 3rd year curriculum or have completed the 3rd year clerkship within the same area as the ICU they are enrolling in.

Restrictions: This course is available to UC Irvine students only. Students must enroll at least 30 days in advance.

Clerkship Director: Drew Ludwig, DO, UC Irvine Medical Center, UC Irvine Department of Medicine, 333 City Boulevard West, City Tower-Suite 400, Orange, CA 92868-3298, dludwig@uci.edu

Instructing Faculty: Catherine Sassoon, MD; Mohamed Elnaggar, MD; Radhika Reddy, MD; Behrouz Jafari, MD; Bahman Saatian, MD; Mark Wittman, MD.

Location/Time to Report on First Day: LBVA Medical Center, Building 126, Third floor, ICU. 7 AM.

Faculty Coordinator: Richard Lee, M.D., UC Irvine Medical Center, UC Irvine Department of Medicine, 333 City Boulevard West, City Tower-Suite 400, Orange, CA 92868-3298, Phone: 714-456-0660 richaral@uci.edu

Site Coordinator: Kelly Fulford kfulford@uci.edu

Site: LBVA

Periods Available: Throughout the year

Duration: 4 weeks

Number of Students: 2

Scheduling:

UC Irvine students must officially enroll for the course by contacting the Scheduling Coordinator via email or phone (714) 456-8462 to make a scheduling appointment.

Course Objectives: During this rotation, you are expected to enhance these clinical skills:

- Assess patients’ overall status - the ABC’s.
- Improve basic skills in chest radiograph review, intravenous and arterial cannulation, order writing, and oral case presentation.
- Interpret and manage hemodynamic variables.
- Interpret normal and abnormal ECGs.
• Assess adequacy of ventilation/oxygenation and treat dysfunction.
• Understand fluid, electrolyte, and acid-base management.
• Understand blood product transfusion indications and concerns.
• Recognize and manage shock and shock states.
• Recognize and manage single and multiple organ dysfunction.
• Understand inherent post-operative changes and problems.
• Perform sedation and pain management skills.
• Understand social and ethical aspects of critically ill patient care and end-of-life issues.
• Understand ventilator management and modes.
• Perform ACLS.
• Perform ATLS.

Key Topics: Focus your attention and energy on these basic disease processes:

• Respiratory failure, types/diagnosis/treatment, ALI/ARDS
• Ventilator therapy/modes/weaning
• Invasive hemodynamic monitoring, placement/interpretation
• Cardiogenic shock/cardiovascular dynamics
• Venous thromboembolic disease/Pulmonary embolism
• Cardiac dysrhythmias/ACLS
• Fluid, electrolyte, acid-base management
• Sepsis/infection control
• Renal insufficiency/failure
• Coagulopathy/blood component therapy
• Hepatic/gastrointestinal dysfunction and failure Competencies:

• Assess patient’s overall status - the ABC’s
• Interpret and manage hemodynamic variables
• Recognize an abnormal ECG
• Knowledgeable about ACLS protocols
• Assess adequacy of ventilation/oxygenation and treat dysfunction
• Understand fluid, electrolyte, and acid-base management
• Understand blood product transfusion concerns.
• Recognize and manage shock and shock states.
• Recognize and manage single and multiple organ dysfunction.
• Understand the inherent post-operative changes and problems.
• Perform sedation and pain management skills
• Understand the social and ethical aspects of critically ill patient care
• Understand ventilator management
• Improve basic skills in chest radiology review, intravenous and arterial cannulation, order writing, and oral case presentation.

Attitudes and Commitment:

• Competence
• Compassion
• Professionalism
• Integrity
• Sensitivity
• Respect
• Commitment
Educational Activities:

Simulation: There will be a mandatory Critical Care Simulation Session conducted from 1 to 4 PM at the UC Irvine Medical Education Simulation Center. It is usually scheduled on a Tuesday or Thursday afternoon on the 2nd or 3rd week of your rotation. You will receive an email informing you about the exact date and time. Please make sure that you have familiarized yourself with the sections in the FCCS book pertaining to shock, hemodynamic failure and monitoring, treatment of shock and vasopressors, causes, types and diagnosis of respiratory failure, and initiation and basics of mechanical ventilation. Familiarity with these topics will ensure that you have a more productive and interactive simulation session. The simulation session is located at:
Medical Education, Building 836
Irvine, CA 92697-4089
Phone: 949.824.8835
A map can be found at: http://www.medsim.uci.edu/contact01.html

For all of us, the ICU is the best ILU (Intensive Learning Unit). The diversity and intensity of pathology to which you are exposed is incomparable to any other clinical setting. You are privileged to take care of the sickest patients in the hospital. Cherish the experience, and do your best to make the most of it. Your faculty are there to make your learning experience as meaningful and effective as possible. If there are problems hampering your growth, approach them.
Show enthusiasm and interest; you will be taken seriously, and will witness reciprocal enthusiasm. Try to carry 2-3 patients at each time. You will learn more if you expose yourself to a variety of pathophysiological processes, so work with your team to try and avoid repetitive cases.
Every patient on the team is “your patient”. Pay attention to all the patients on rounds. You will multiply your experience.
Offer to do short 5-10 minute presentations on topics relevant to your patients. The best way to master a topic is to teach it.

What Students Should do to Prepare for the Rotation:

Check with Faye Johnson 562-826-8000 x 3294 Faye.Johnson2@va.gov to ensure you are cleared to rotate at the VA

Current VA ID Badge. If this is your first time coming to the VA, you probably don’t have the new VA ID badge. In order to get your new badge, you will need to contact the VA HR office, Mr. Ivan Aguilar at ivan.aguilar@va.gov to set up an appointment for your VA ID photo. The email to Ivan should be sent approximately 4 weeks prior to the start of your rotation. *If you have previously rotated at the VA, have them check your badge to assure they are not expired. If your badge is expired, you will need to follow the instructions above to get your renewal completed.

Make sure your TMS training is up to date. It is highly recommended that you bring your certificates of completion training if possible. If you are unsure if your training is current, you can check your TMS account at https://www.tms.va.gov/learning/user/login.jsp

Contact site coordinator at least 4 weeks before the start of the rotation.

Clinical Responsibilities of the Student: Students function as sub-interns, becoming integral members of the ICU team and serve as primary care givers under supervision
Patient Care Responsibilities: Students function as sub-interns, becoming integral members of the ICU team and serve as primary care givers under supervision

Call Schedule of the Student: Students are expected to work the same shifts as their team.

4/1/2016
Procedures Students will Learn:

- Airway management
- Peripheral and Central IV catheter placement
- Arterial line placement
- Lumbar puncture

Percentage of Time in Ambulatory Setting: 20% Conference/Lecture/Small

Group Sessions:

- Hemodynamic Monitoring & Optimization
- Fluid & Shock management
- Respiratory Failure & Ventilation ARDS
- Trauma and Head Injury
- Ethics and End of Life Issues
- Pediatrics Critical Care

Course Hours Weekly Summary:

- 2.5 Case Based: observation of and reflection on difficult cases across clerkships
- 2.0 Conference
- 1.0 Grand Rounds
- 1.0 Examination
- 2.5 Lectures
- 15.0 Patient-Care Activities
- 2.5 Small Group
- 2.5 Standardized patients
- 15.0 Tutorials
- 2.5 Ward Rounds
- 46.5 Total

Content Theme Integration: You will encounter these associated themes regularly in the ICU. Use the opportunity to gain experience in:

- Terminal Illness, Death & Dying
- Ethics (Esp. End-of-Life Issues)
- Genetics & Genetics Counseling
- Nutrition
- Pain Management
- Palliative Care
- Research Methods
- Substance Abuse / Drug Toxicity

Required Reading:

Your syllabus is the FCCS, the main text provided by the Society of Critical Care Medicine for medical students. You are required to study it during your 4-week rotation, discuss any questions with your faculty, and will be tested based on it on your end-of-rotation written MCQ exam. Contact your site clerkship coordinator to collect the book at the beginning of the rotation, and make sure you return it at the end. For additional recommended reading please see:

4/1/2016
• Handbook of Critical Care - Jesse B. Hall (September, 2009)
• Irwin and Rippe’s Intensive Care Medicine 6th edition - Richard S Irwin and James M. Rippe (August - 2007)
• The ICU Book, 3rd Edition - Paul L. Marino (September - 2006)

Official Grading Policy: Your final grade is a composite based on your end-of-rotation written MCQ exam (usually administered on the Friday of week 4) and your clinical evaluations. The clinical evaluations are based on motivation, knowledge of clinical medicine, clinical skills, and personal characteristics. A passing grade requires daily attendance at rounds, attendance and participation in lectures, discussions, and clinical assignments, as well as satisfactory scores for the categories listed in the clinical evaluations. Absences will be excused only upon approval by the course director. Comments will be made available for your Dean’s Letter. The written examination is comprised of 50 multiple-choice questions which are derived directly from the FCCS content. Students can be eligible for Honors if they receive a satisfactory score on all clinical evaluation categories, score at least 90% on the MCQ examination, have perfect attendance, and show exceptional skills in a number of clinical categories and prepare a relevant presentation. Students who receive a failing grade will meet with the course director to discuss options for re-evaluation that may include additional time in the MICU along with a written reexamination. A score of 70% or greater is required on the MCQ exam in order to pass the course.

Attendance: You are expected to participate as a team member, every weekday in addition to one day every weekend, other than the last weekend. You are encouraged to take call with one of your team interns; you should coordinate the details regarding hours of attendance and the call schedule with your site clerkship director and ICU faculty.

Absence: With prior notification, you are allowed a maximum of three (3) days of absence during your 4-week rotation. You will need to reschedule your rotation for another date if you miss more than 3 days.

Any questions or issues regarding your critical care clerkship grade should be presented to your course director and the grading faculty.