

Perioperative & Acute Care Medicine Clerkship: EM Week **Student Guide to the EM Week**

Welcome to the Emergency Medicine Week of your clerkship!

Group didactic sessions will be held in the mornings, followed by individual assigned rotations at various Emergency Department sites in the afternoons. All students will have one evening rotation at a clinical site during this week. Clinical and procedural skills instruction will be emphasized during these afternoon sessions, and observed satisfactory completion of these skills is needed to pass the rotation. The required skills for each clinical site are listed on the website.

As always, please contact us for any questions. We look forward to working with you.

Diana Edwards, Coordinator (924-9454, PIC 2494), de2r@virginia.edu
Amita Sudhir, MD, Co-director (924-9152, PIC 3436), as2cd@virginia.edu
UVA Department of Emergency Medicine
PO Box 800699, Charlottesville, VA 22908

An overview of the Emergency Medicine schedule is on page 2.

| <p align="center">Perioperative and Acute Care Medicine (PACM) Clerkship Class of 2014 – Emergency Medicine – week two</p> | | | | |
|--|---|--|---|---|
| Monday | Tuesday | Wednesday | Thursday | Friday |
| <p>Orientation 7:45-8:20 am EM residents work room</p> <p>Rhythm and CS ECG 8:30-10 am LSLC</p> <p>AHA HCP Skills Eval* – 10-12 am LSLC <i>*Pre-requisite: HCP Online Certificate</i></p> <p>Individual afternoon sessions 1-5</p> | <p>Emergency Ultrasound – 8-9 am EM large conference room</p> <p>Simulation Session: Cardiac Resuscitation 9am-12 noon Simulation Center</p> <p>Individual afternoon sessions 1-5 pm</p> | <p>EM Conference 7- 10 am EM large conference room</p> <p>Wound Care/Suture 10-12 pm EM small conference room</p> <p>Individual afternoon sessions 1-5 pm</p> | <p>Triage & Disaster 8-9 am EM small conference room</p> <p>Simulation Session: Trauma Resuscitation 9am -12 noon Simulation Center</p> <p>Ultrasound Skills Session 1 – 4 pm Large EM conference room</p> | <p>Exam 7:30-9 am Health Sciences Library</p> <p>Case Report Presentations 9-11 am EM small conference room. <i>(Students leave case presentations to arrive on time for post- clerkship assessment.)</i></p> <p>Individual afternoon sessions 1-5</p> |
| <p>Individual evening sessions 5-9 pm</p> | <p>Individual evening sessions 5-9 pm <i>(Student 3, 5:30- 9pm)</i></p> | <p>Individual evening sessions 5-9 pm</p> | <p>Individual evening sessions 5-9 pm</p> | |
| <p>Emergency Medicine: The <u>Individual Session Schedules</u> for the Emergency Medicine week will be emailed to each student.</p> | | | | |

Morning Group Sessions:

****Prior to beginning the rotation, all students must successfully complete the online Health Care Provider course. You will then attend skills practice and testing at 10am, upon completion of which you will receive AHA HCP Certification for 2 years. (<http://www.healthsystem.virginia.edu/internet/lslc/updatedblsfiles/hcp.cfm>)***

Day 1:

7:45am-8:20am: *meets in the ED Resident Workroom*

EM Week Course Intro

Students will convene for clerkship week orientation.

8:30am-10am: *meets in the Life Support Learning Center (Towers Bldg 5th Floor on JPA)*

Lecture: ECG Interpretation: Dysrhythmia and Acute Coronary Syndrome Recognition

Students will learn basic ECG interpretation, identifying disease pathologies such as acute myocardial infarction, ischemia, pericarditis, atrial and ventricular dysrhythmias, as well as recognizing benign patterns such as early repolarization, J-point elevation, limb-lead reversal, etc.

10am-12noon: *Life Support Learning Center (Towers Bldg 5th Floor on JPA)*

Skills Workshop: AHA Healthcare Provider Course* (CPR/BLS/AED)

Specifically targeted towards healthcare providers, students will become certified in the initial management of adults and children/infants in cardiac arrest, operation of an Automated External Defibrillator (AED), respiratory arrest and management of airway obstruction in the adult, child, and infant.

Students will then practice skills during this session, take a written test and undergo practical evaluation prior to becoming certified.

****Must complete online HCP course prior to skills practice at 10am.***

(<http://www.healthsystem.virginia.edu/internet/lslc/updatedblsfiles/hcp.cfm>)

Day 2:

8am-9am: *Location TBA*

Lecture: Emergency Ultrasound

Students will learn basic principles of Emergency Bedside Ultrasonography.

9am-12 noon: *Medical Simulation Center*

Simulation Session 1: Cardiac Resuscitation

Utilizing UVA's high-fidelity simulators, students will employ skills learned from the prior day's lectures to manage acute chest pain, dyspnea and cardiac arrest "live" patient scenarios. Following each case, students will evaluate their own, as well as their peers', case management using video playback.

Day 3:

7am-10am: *EM Large Conference Room*

EM Grand Rounds and Didactic Conferences**7am – 10am**

Students will attend Emergency Medicine Grand Rounds and resident conference.

10am-12 noon: *EM Small Conference Room***Emergency Orthopedics**

Students will learn about basic orthopedic principles including terminology, fracture management, and interpretation of extremity radiography.

AND**Basic Wound Care and Suturing Workshop**

Students will learn basic wound care skills including exploration and irrigation, local anesthesia and subcutaneous infiltration, laceration repair, methods of closure and equipment familiarization. Hands-on practice follows the short video lecture.

OR**Splinting/Joint Immobilization**

Students will practice joint immobilization and various splinting techniques.

Day 4:**8am-9am:** *EM Small Conference Room***Lecture: Emergency Triage and Disaster Management**

Students will learn the basic principles of disaster management and triage during a mass casualty event.

9am-12noon: *Medical Simulation Center***Simulation Session 2: Team Training Exercise and Trauma Resuscitation**

Students will engage in a team-training exercise, applying triage and crisis resource management concepts in the management of multiple trauma scenarios. Students will again evaluate their own, as well as their peers', performance using video playback.

1pm-4pm: *Large EM Conference Room***Ultrasound Skills Session (all)**

Day 5:**7:30am-11am:** *Health Sciences Library***Online Final Exam, Post-Clerkship Self-Assessment, Course Wrap-up and Evaluation**

Students will re-convene for the online final exam and course wrap-up.

9am-11am:*EM Small Conference Room***Student Case Reports**

Students will select one case from their clinical experience for discussion at this session. They will report the presentation, pertinent physical exam findings and ED course of the selected case. Furthermore, each student will formulate a simple clinical question based on the case to be answered using current medical evidence.

Afternoon Individual Rotations:

The Emergency Department provides a high volume, procedurally-rich environment for students to learn both the communication skills and procedural techniques common in acute care medicine. Each student will be scheduled for six of these individual clinical experiences during the clerkship week.

All afternoon sessions occur from 1pm-5pm, unless noted otherwise. All students will also be assigned one evening session from 5pm-9pm, or 5:30-11pm, during this week.

Please refer to the website for a list of required skills for completion as well as suggested skills for practice at each of the clinical sites.

Clinical Site 1: Emergency Department-Adult

**On arrival, please introduce yourself to the PGY-2 resident on duty, who will assign you to an ED Patient Tech for the afternoon.*

- While rotating through the Adult ED, students will gain clinical experience unique to the specialty of emergency medicine, including evaluation of patients with undifferentiated complaints such as chest pain, abdominal pain, minor trauma and simple to highly complex orthopedic injuries, among others.
- Students will observe basic concepts in the resuscitation of critically-ill patients such as those suffering injuries from multiple trauma (“Trauma Alert”), acute neurologic deterioration (“Stroke Alert”), acute myocardial infarction (“STEMI Alert”) and shock.
- Students will learn to place patients on cardiac monitors, perform and interpret 12-lead ECG’s, pulse oximetry and O2 supplementation, among others. Additional skills include performing urinalyses, bedside glucose determination, peripheral IV placement, GCS calculation, and others outlined on the PaSSPort.

Clinical Site 2: Emergency Department-Triage

**On arrival, please introduce yourself to the Triage Nurse on duty.*

- Students will spend the afternoon with the ED triage nurse, evaluating a myriad of chief complaints by ambulatory patients presenting to the Emergency Department. They will assist in measuring vital signs (blood pressure, heart rate, respiratory rate, temperature), performing and interpreting ECG’s, urinalysis, HCG testing, as well as assigning triage categories to patients of various acuities.

Clinical Site 3: Emergency Department- Express Care

**On arrival, please report to the Express Care M.D. or EM Resident or Nurse Practitioner on Express Care duty.*

- Students will gain experience in the evaluation and management of patients with urgent complaints, gaining management skills in wound care, laceration repair, acute orthopedic injuries (including splinting and joint immobilization) and outpatient pain management.

Clinical Site 4: Emergency Department-Pediatrics

**On arrival, please introduce yourself to the Pediatric ED Resident as the Acute Care Clerkship student.*

- Students will partner with the senior ED Peds resident and evaluate common pediatric complaints such as fever, upper respiratory complaints, rash and abdominal pain, as well as more complex symptoms such as pediatric multi-trauma victims, post-surgical complications, seizures and congenital heart disease. Valuable skills in child and family interaction will be realized, as well as pediatric medication dosing, weight and temperature measurement.

Clinical Site 5: EMS Ride-along (1230-6pm or 530-11pm)

**Please arrive at the Charlottesville-Albemarle Rescue Squad (<http://www.rescue1.org/>) at 828 McIntire Road no later than 1230pm. You will have time to eat lunch after you arrive. Please adhere to the dress code. Please read the Medical Student Ride-Along Information on the clerkship website prior to your rotation (under Logistics: Handouts and Passports).*

Students will ride with local EMS squads in the observer capacity. They will respond to on-scene accidents and enter patients' homes or nursing facilities for medical calls, while learning aspects of pre-hospital care – particularly cardiac monitoring and electrocardiography, blood glucose determination, spinal immobilization, obtaining vital signs, and IV fluid resuscitation, among others. Students will also benefit from seeing patients in their home environment and interacting with family members, bystanders and other healthcare providers.

- **ATTIRE:** You WILL be sent home if dressed inadequately. In such a case, please contact Dr. Sudhir to reschedule an alternate assignment.
 1. Please wear a white shirt with khaki or dark blue pants, with sturdy, closed shoes. Navy blue scrubs with MATCHING tops and bottoms are also allowed. Tennis shoes, open-heeled clogs, sneakers or sandals are NOT allowed.
 2. Wear your UVA ID at all times.
 3. Do not wear your white coats on the ambulance.

- **UNIVERSAL PRECAUTIONS:** *Observe them! Wear gloves when in contact with all EMS patients. Wear gowns and masks when there is any risk of contamination (during any procedure or close contact).*
 - **LOOK OUT FOR YOURSELF:** *Survey the scene prior to approaching or entering it. Ensure your own safety so you may better help your patients.*
 - Finally, please remember that you are observers and must respect the prehospital providers from whom you are learning. They are happy to have you, but remember that they must also do their jobs. Please lend a hand whenever possible, and follow instructions when given. Together, you will provide outstanding care and an immeasurable service to our community.
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Directions to various sites:

- **Health Sciences Library:** if you don't know, please ask a classmate
- **Emergency Department:** Located in the 1st floor of University Hospital on the East side. Take the East staff elevators to 1st floor and the ED is straight ahead.
- **ED Resident Workroom:** As you exit the East staff elevators on 1st floor, this is within the ED offices on the left. Once you enter, the workroom is within the 2nd door on the right.
- **Life Support Learning Center:** Towers Building on JPA, 5th Floor
- **EM Administrative Offices:** West Complex 2nd floor at the end of the link. From University Hospital, take the 2nd Floor link to the West Complex and the Offices are a door to your right just as you exit the link. The **EM Classroom** is within these offices on the left as you enter. The **EM Small Classroom** is straight ahead as you enter.
- **Medical Simulation Center:** West Complex (Old Med School) 3rd Floor. In the west complex, take the main elevators to the third floor. After you exit the elevators (now facing the stairwell), turn right into the hallway, then left into a long hallway, then another left. The Sim Center door is the recessed door on the left.
- **CARS (Cville-Albemarle Rescue Squad):** 828 McIntire Road, on the corner of McIntire and the 250 Bypass, behind the skate park. (<http://www.rescue1.org/>)