



Ohio University
College of Osteopathic Medicine
Centers for Osteopathic Research and Education
Years III and IV Clerkship Curriculum



CORE Clinical Rotation: Emergency Medicine

Course Title: OCOM 865 Emergency Medicine

Instructor of Record: Peter B. Dane, D.O.

Credit Hour: 12 Credit Hours

Rotation Length: 4 weeks

Prerequisites: Successful completion of the 6-week Family Medicine Clerkship

Syllabus Components

1. Rotation Description, Purpose and Philosophy
2. Rotation Objectives
3. Orientation to Rotation
4. Required Activities and Assignments
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Appendix A: Skills and Procedures Log

Last update: 09/27/2006

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1. Rotation Description, Purpose, and Philosophy

The purpose of this rotation is to provide the student with an overview of the clinical specialty of Emergency Medicine. This rotation is not intended to transform the student into an EM physician, but rather it is to provide the clinical clerk a survey of the specialty. During this rotation the student will encounter a variety of experiences in the diagnosis, management, and referral of patients presenting to an Emergency Department. Although the student may not be planning a career in Emergency Medicine, it is expected that, during this rotation, he/she will learn the skills necessary for the immediate assessment and management of life-threatening and urgent conditions or for the stabilization of such conditions prior to referral to another treatment facility.

2. Rotation Objectives

A set of learning objectives is provided below. The objectives are intended to guide for the student's learning activities and to serve as a baseline for assessment of the student's knowledge, skills, and professional behavior. Not all of the objectives listed below will be encountered during any single rotation. While each student is expected to further expand his/her knowledge base and to care for all assigned patient cases, he/she is also expected to avail him/herself of the educational materials provided and to master the following objectives.

Rotation Objectives: Knowledge Domain

A statewide survey of CORE preceptors identified the following as the most common diseases/conditions found on the Emergency Medicine Rotation at the CORE hospitals. The post-rotation exam may include questions on any of the topics listed.

1. Resuscitation/Cardiac arrest (ABC's)
2. Major/multiple trauma (including C Spine fractures)
3. Chest pain/Angina/Acute Myocardial Infarction
4. Vomiting (including Hematemesis)/diarrhea/dehydration
5. Cardiovascular accidents
6. Head trauma/ seizures
7. Acid-Base disorders (including Diabetic keto-acidosis)
8. Management of Overdose
9. Acute respiratory distress/Asthma/COPD
10. Shock
11. Assessment of low back pain
12. Diagnosis and initial management of minor trauma (including fractures, sprains, bites, burns)
13. Acute abdomen /Pelvic pain

For each disease or condition listed above, the student should be able to describe/assess the following:

1. Presenting signs and symptoms
2. Physical findings
3. Basic interpretations of appropriate diagnostic studies
4. Major differential diagnoses

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5. Management alternatives, including: treatment plans, patient education, and addressing modifiable risk factors
6. Possible complications
7. Prognosis
8. Follow-up care
9. Somatic dysfunction related to the disease/condition and the osteopathic treatment(s) for the somatic dysfunction

Note: Students are expected to interact with and provide appropriate care for *all* patients they encounter on a rotation regardless of whether or not the patient's condition is listed above. However, for purposes of the post-rotation exam, students will be responsible only for the diseases and conditions listed above. Students are expected to master the objectives related to the listed disease/conditions regardless of whether or not they encounter any patients with those diseases/conditions while on rotation.

Rotation Objectives: Clinical Skills Domain

During the Emergency Medicine Rotation, students are expected to develop their competencies in many basic clinical skills. While not every skill listed below can be performed during this brief rotation, the student should avail him/herself of as many of the following procedures as possible, and to seek out opportunities to perform these skills in other rotations as well.

1. Administer Blood and blood products
2. Perform the following procedures:
 - Arterial Blood gases (ABG's)
 - Venipuncture to obtain blood samples for laboratory studies
 - Cardiopulmonary resuscitation
 - Urinary catheterization (Foley)
 - Nasal packing
3. Perform gastric/peritoneal lavage
4. Perform ear lavage
5. Perform Incision & Drainage of abscess
6. Give injections: (intradermal, subcutaneous, intramuscular, intravenous)
7. Start an IV
8. Repair lacerations
9. Removal of foreign body from eye, ear, nose or throat
10. Perform a rectal examination with hemoccult testing
11. Apply splints or casts
12. Culture (blood, wound, sputum, stool, urine, &/or urethral)

3. Orientation to the Rotation

The rotation orientation provides an opportunity to answer questions and define roles, assess skill level and experience, set expectations, and anticipate and proactively resolve problems. The student should try to meet with the preceptor either prior to or early on the first day of the rotation. Clarifying the following details with the preceptor will help to ensure a rewarding and successful rotation:

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- a. Student responsibilities on the service.
- b. Preceptor expectations of the student on the service.
- c. Goals, objectives, and the structure of the rotation.
- d. Required rotation assignments and responsibilities in the preceptor's practice (e.g. clinics, lectures, conferences, other didactics, journal clubs, rounds, office hours, morning report).

The student should ask for feedback several times during the rotation, especially at mid-rotation. In addition, he/she should be prepared to share past clinical experiences and personal objectives for this rotation with the preceptor.

4. Required Learning Activities, Assignments, and Responsibilities for ALL OU-COM STUDENTS in order to earn credit for this rotation

The following activities are required for satisfactory completion of this rotation:

- a. Set up a time with the CORE staff to complete the on-line post-rotation exam. This must be done during the last few days of the rotation or up to 1 week following the completion of the rotation, at the discretion of the CORE staff.
- b. Attend and participate in all CORE education day presentations.
Note: If the student is absent from any of the CORE education day presentation without prior approval, he/she will be required to complete a remediation activity. Remediation may consist of a 5-page paper for each missed lecture, or some other assignments at the discretion of the CORE Assistant Dean. These must be completed and accepted by the CORE Assistant Dean in order to receive a grade for the rotation to which you are assigned at the time of the absence.
- c. Attend and participate in any other workshops, seminars, or professional development activities assigned by the CORE Assistant Dean.
- d. Present all clinical case conferences as assigned by the CORE Assistant Dean.
- e. Ensure that your preceptors' written evaluation is completed and submitted within 2 weeks of the end of the rotation.
- f. Submit the online Student Evaluation through New Innovations. If you need instructions, please ask your CORE staff.
- g. Submit the Procedures Log through New Innovations.
- h. Submit a copy signed by your preceptor of the log summary (from New Innovations) at the end of this rotation.
- i. Fulfill all required responsibilities identified by the preceptor during orientation.

5. Student Performance Evaluation

A student's grade for the Women's Health Rotation will be based on the following criteria. The student must pass both parts in order to pass the rotation.

a. The Post-Rotation Exam

An online, computer-based post-rotation exam will cover the diseases and conditions listed in the objectives section of this syllabus. The computer will instantly grade the test and provide information to the student. If a student fails the exam, receives below 60%, s/he has one opportunity to

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retake the exam. In the event of a second failure, a remediation plan will be developed between the student and the CORE assistant dean.

b. The Preceptor's Written Evaluation

A student must receive a passing grade from the preceptor in order to pass the rotation. If the preceptor considers the student ***Marginal***, then a remediation recommendation should be made by the CORE Assistant Dean, in consultation with the preceptor, and submitted to the Associate Dean for approval. If the preceptor fails the student, the student is awarded a grade of "F" for the rotation regardless of the grade s/he received on the post-rotation exam. The failure must be forwarded to the CSP.

NOTE: It is the responsibility of the student to ensure that the preceptor's evaluation is submitted to the CORE office within 2 weeks of the end of the rotation.

6. Recommended Resources

Note: Post-rotation exam questions are referenced to the required texts.

Required:

Markovichick, V. & Pons, P. (2003). *Emergency medicine secrets*. Philadelphia: Hanley & Belfus, ..

Reference for additional information:

Tintinalli, J, Kelen, G., & Stapczynski J. (2004). *Emergency medicine*. (6th ed.). New York: McGraw-Hill.

7. Standards of Professional Conduct

The OU-COM Honor Code applies to all activities in the CORE as well as on the Athens campus.

Students are encouraged to study together and to share their knowledge freely with one another during the learning process. During examinations, however, no assistance from other students or from outside sources is allowed, unless explicitly permitted by the CORE office. Books, notes, and other materials must be left at the periphery of the testing area during examinations.

Professional standards required of a member of the Osteopathic profession are a requirement for passing this rotation, as is compliance with the professional standards of the hospital and outpatient offices of the student's preceptor. Students are expected to maintain high professional standards of behaviors. They should exhibit such personal characteristics as honesty and integrity, as well as to maintain patient confidentiality at all times. Violation may result in a failing grade in this rotation, regardless of other academic performance on this

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rotation, and could subject the student to dismissal from the hospital in which they are based. Such professional conduct shall be evaluated by the CORE Assistant Dean through observation of and interaction with the student, his/her preceptor, other hospital attendings and staff.

8. Tips for Successfully Completing the Rotation

Being successful on this rotation requires you to be a proactive student. Taking an interest in the specialty and becoming an active team member of the service is critical to learning in a clinical setting. Remember, the clinical learning environment differs from the classroom. You will be “thinking on your feet” and “learning as you go.” To capitalize on “the learning moment,” seek out opportunities to ask questions and speak up appropriately.

In addition, be sure to:

1. Review the syllabus to ensure that you understand all requirements.
2. Discuss with your preceptor your previous clinical experiences and personal goals and objectives for this rotation. The rotation orientation is an opportune time to initiate this discussion and to develop positive rapport with you preceptor.
3. Clarify your preceptor’s expectations of your activities.
4. Complete your skills and procedure log as you proceed through the rotation; avoid procrastinating until the end.
5. Come prepared to take advantage of the opportunities this rotation has to offer.

If you have any questions, contact your CORE Administrator or CORE Assistant Dean.

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Skills and Procedures List

Appendix A

During the Emergency Medicine rotation you must complete your procedures log on New Innovations. At the end of your clerkship, you must print out your procedure log, ask your preceptor to sign it, and turn it into the CORE office.

ABG interpretation	Imaging CT
Administration of blood and blood products	Imaging MRI
Airway management/intubation	Imaging x-ray
Anesthesia, regional	Immunizations
Arterial Catheter Insertion	Incision and drainage of abscess
Arterial puncture	Incision closure
Arthrocentesis	Injection, Intradermal
Bladder catheter insertion (Foley)	Injection, intramuscular
Breast examination	Injection, intravenous
Cast application	Injection, joint
Central Venous Line insertion	Injection, subcutaneous
Chest tube insertion	Insertion of peripheral IV
Code Blue/Resuscitation	KOH/Wet mount
Comprehensive Hx (new admit/new patient)	Laceration/wound stapling
Comprehensive PE (new admit/new patient)	Laceration/wound suturing
CPR	Lumbar puncture
Culture, blood	Nasal packing
Culture, sputum	NG tube placement
Culture, stool	OMT
Culture, throat	Osteopathic Exam
Culture, urine	Pacemaker insertion
Culture, vagina	Patient education
Culture, wound	Pelvic examination
Direct ophthalmoscopic exam	Peritoneal lavage
Dislocated shoulder reduction	PFT interpretation
Drain placement/management	PPD interpretation
Dressing placement	Prescription writing
Ear lavage	Slit lamp exam
Ear, Cerumen removal	Splint application
Echocardiogram	Splint removal
EKG	Staple removal
EKG interpretation	Steri-strip application
Excision, skin lesion	Surgical site prep
Foreign body removal ear	Suture removal
Foreign body removal eye	Taping procedure for sprains etc.
Foreign body removal nose	Thoracentesis
Foreign body removal skin	Tonometry
Foreign body removal throat	urinalysis (dipstick and microscopic)
Fracture reduction	Venipuncture (for blood sampling)
Gastric lavage	Visual acuity/visual field testing
Glucose by fingerstick	Wart Removal
Hemoccult	