

Emergency Medicine - UMH

Em Ultrasound, UMH

COURSE ID: 047065

SUBJECT: EMERGMED

CATALOG NUMBER: 2ULT0.U

Rule of Three Exemption:

Exempt from Rule of 3 (no more than three experiences from one department will satisfy requirements for graduation)

Requirements Designation:

Clinical

Special Instructions:

EM Clinical Ultrasound is an elective for fourth year medical students only.

Instructors:

Ross Kessler, MD, Rob Huang, MD, Nik Theyyanni, MD, Melissa Skaugset, MD

Course Contact:

Ross Kessler, MD (rokessle@umich.edu)

Site Coordinator:

Heather Wourman (cerovski@umich.edu; 763-1271)

Duration:

4 weeks

Grading Basis:

Satisfactory/Fail

Branch Information:

Elective - This course should be considered a general M4 elective because it does not meet the above descriptions and Intended Learning Outcomes to be categorized in a Branch.

Periods Offered:

Period	Min	Max	Period	Min	Max	Period	Min	Max
1	N/A	N/A	5	N/A	N/A	9	N/A	N/A
2	N/A	N/A	6	N/A	N/A	10	N/A	N/A
3	N/A	N/A	7	N/A	N/A	11	2	8
4	N/A	N/A	8	N/A	N/A	12	N/A	N/A

Avg # of Patients Seen Each Week:

25

On-Call Responsibility:

No Call

Where to Report First Day of Clerkship:

UMHS, Clinical Simulation Center @ 10am

Objectives:

Learning Objectives

1. Develop skills within the core topics of clinical ultrasound, including Aorta, FAST, Cardiac, Renal, Biliary, Pulmonary, First-Trimester OB, Ocular, DVT, Soft Tissue, and Procedural Ultrasound.
2. Perform a minimum of 100 focused ultrasound exams by the end of the rotation.
3. Explain how to optimize ultrasound images and identify the proper machine settings for each of the focused ultrasound applications.
4. Understand the indications for emergency ultrasound and learn concrete ways to integrate ultrasound into clinical decision-making and typical emergency department workflow.

Assessments:

Students Will Be Evaluated On Each Of The Following

- quality of care given (including clinical judgment)
- the number of patients given care
- participation and performance in conferences
- level of knowledge (including new knowledge)
- level of skills

Student Assessment

Students will be evaluated by ultrasound faculty throughout their rotation on their ultrasound technical skills, professionalism, core ultrasound knowledge, completion of required asynchronous modules, and completion of required number of scans (100). Improvement over the course of the rotation is a key factor in the evaluation process. Students are required to complete a written pre-test prior to the rotation, which does not factor into their evaluation but sets learning objectives for each individual learner. At the end of the rotation, students are required to complete a written post-test, which assesses their post-rotation core ultrasound knowledge. The performance of the post-test will be a factor in the student's overall evaluation. Ultrasound technical skills will be evaluated by direct observation by faculty and residents. Students will be assessed in a pass/fail manner at the end of the rotation.

Methods To Be Used In Student Evaluation Include

- observation of performance by faculty
- observation of performance by house officers
- logbook entries
- written/oral tests

Distribution of Student's Time:	70 %	Emergency Department Clinical Care
	20 %	Conferences/Lectures/Seminars
	10 %	Simulation

Course Description:

This elective is focused on teaching medical students how to perform and interpret bedside ultrasound, as well as integrate ultrasound into clinical practice. The course is designed to train students in the core applications of ultrasonography in emergency medicine in order to make clinical decisions in the care of acutely ill patients. Proficiency in clinical ultrasound can aid in making diagnoses and improve safety in procedural skills.