

Title of Clerkship: **Radiology Elective - UTMC**

Elective Year: Third Year

Department: Radiology

Type of Elective: Clinical   x   Non-Clinical/Research \_\_\_\_\_ Basic Science \_\_\_\_\_

Clerkship Site: The University of Toledo Medical Center

Course Number: RAD1760

Blocks Available: All blocks with the exception of June

Number of Students/ Block: 1

Faculty: Robert Coombs, MD, Haitham Elsamaloty, MD, Terrence Lewis, MD, Hassan Semaan, MD, Lee Woldenberg, MD, Jacob Zeiss, MD

Elective Description/ Requirements: One will participate in a plethora of clinical activities in the Department of Radiology including subspecialty assignments in Cardiothoracic, Gastrointestinal, Genitourinary, Musculoskeletal, and Neuroradiology as well as ½ day modality based experiences in diagnostic radiography/mammography, CT, MRI, ultrasound and nuclear medicine. Online lectures and case based modules will supplement daily clinical activities in order to create a uniform curriculum for all medical students. Designed for the medical student who is considering or planning to specialize in Diagnostic Radiology.

Students will attend all radiology departmental case conferences provided during the rotation and various interdisciplinary conferences when available.

Length of Clerkship: 4 weeks

Links to EPOs: Educational Course Objectives:

K5, K15, K16, S7, S9, S11 P3, P7	1. Defend common radiology tests, including their accuracy, limitations and risks by utilizing ACR Appropriateness Criteria for common conditions.
K1-K5, K7, S7-11, P7	2. Discuss and interpret clinical cases which provide clinical, radiologic, and pathologic correlations on various disease processes.
K1-K5, S7-11 S6, S7	3. Incorporate patient specific variables into ordering and interpreting appropriate imaging tests.
K2-5, K16, S1, S9, P5	4. Identify the different interventional procedures performed by radiology including their contraindications, risks and benefits.
S1, S9-S11, P4, P7	5. Identify radiation, contrast, and MRI safety concerns to minimize and quantify risk from common imaging studies.
K15-16, P1, P6, P7	6. Communicate effectively with patients and clinicians when reporting imaging results or consulting on test appropriateness.
	7. Become aware of imaging costs and the need to reduce unnecessary tests.

Professionalism: UT/COM students will meet or exceed the institutional standards for professionalism as stated in the current Educational Program Objectives and the current Educational Course Objectives for the Sponsoring Department.

Instructional Methods: -Problem-solving exercises (web-based case modules)  
-Small-group, Clinical skills and Didactic Sessions  
-Lecture/Didactic sessions (traditional and web-based)  
-Independent study  
-Observation of and participation in daily radiology cases  
-Observation of image guided procedures  
-Observation of and participation of technologies used in radiology including but not limited to CT, MRI, US, DR, and DM.  
-Case discussions with radiology and pathology correlation  
-Didactic sessions to include but not limited to subspecialty radiology in emergency, neuroradiology, GI/GU, musculoskeletal, cardiothoracic, interventional, and vascular.  
-Review of teaching cases and discussion with faculty (PACS time)

Evaluation Methods:

1. Attendance
2. Evaluation of participation in small-group discussion during case conferences
3. Faculty/resident observation and assessment of clinical skills
4. 360-degree evaluations of communication skills and behavior on modality rotations by technologists
5. Professionalism assessment module Alliance of Medical Student Educators in Radiology (AMSER)
6. End of rotation AMSER shelf-exam

Prerequisites: None  
Clerkship Director: Haitham Elsamaloty, MD  
Clerkship Coordinator: Mary Carroll  
Phone Number: 419-383-3403  
Email: [Mary.Carroll@utoledo.edu](mailto:Mary.Carroll@utoledo.edu)

Special Requirements: None

**AAMC Hot Topics  
Addressed in this Elective  
Clerkship:**  
*(please make selection from  
attached Hot Topic list)*

- Clinical problem solving/decision making
- Communication skills
- Diagnostic Imaging
- Evidence Based Medicine
- Health Care Quality Improvements
- Health Care Systems
- Medical ethics
- Medical Socioeconomics
- Practice Management
- Women's Health