Title of Clerkship:	Radiology/Pathology Clerkship UTMC				
Required:	3 rd year				
Departments:	Radiology and Pathology				
Type of Clerkship:	Clin	ical <u>x</u>	Non-Clinical/Research	Basic Science	
Clerkship Site:	The University of Toledo Medical Center				
Course Number:	RADI762				
Blocks Available:	All blocks except June				
Number of Students/ Block:	18				
Faculty	Robert Booth, MD, Richard Cantley, MD, Cara Gatto-Weis, MD, Amira Gohara, MD, William Gunning, PhD, Jennifer Hipp, MD, Robert Mrak, MD, PhD, Mary R. Smith, MD, Hongliu Sun, MD, Robert Coombs, MD, Haitham Elsamaloty, MD, Terrence Lewis, MD, Hassan Semaan, MD, Lee Woldenberg, MD, Jacob Zeiss, MD				
Elective Description/ Requirements:	 Students will spend 2 weeks in the Department of Radiology and 2 weeks in the Department of Pathology. The overall course will bridge radiology and pathology subspecialties to prepare students to best utilize departmental resources (i.e. testing, consultation, procedures) as they transition into clinical practice. Students will participate in a plethora of clinical activities in the Department of Radiology including ½ day 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. While in Pathology students will participate in all anatomic and clinical activities in the Department of Pathology, genomics & transplant immunology. Students will attend all radiology and pathology departmental case conferences provided during the rotation and various interdisciplinary conferences when available. 				
Length of Clerkship:	4 weeks				
Links to Core Competencies:	Educational Course Objectives:				
МК-1 МК-2	1. 2.		nal structure and function of all organ ecular, biochemical and cellular mech	systems anisms related to normal and abnormal	
МК-3 МК-4	3. 4.	Knowledge of underlyi	ng causes of common disorders and structure and function (pathology and	their pathogenesis pathophysiology)associated with various	
МК-5 МК-7	5. 6.	Knowledge of clinical i	manifestations of common diseases c principles required to practice evide	nce based medicine	
MK-9	0. 7.		principles that govern decision making		
MK-10	8.		and abnormal human behavior		
MK-11	9.	and respond to sympto	oms, diseases and related treatments		
MK-12	10.		-biological determinants of health and ntribute to health and disease	the economic, psychological, social and	
MK-13			cultural and other biases that impact	delivery of health care	
MK-14 MK-15			entals of medical professionalism ental principles of preventive medicine	and population/public health	
MK-15 MK-16				d team based care, patient safety as well as	
PC-1	15	quality improvement in		at covers all essential aspects of the history	
PC-3	15.			d physical in appropriate clinical situations	
PC-7		The ability to use know		boratory, radiographic and pathological	
PC-8	18.		t appropriate common diagnostic and	therapeutic strategies for patients with	
PC-10		The ability to retrieve (information to deliver s	from electronic databases and other safe and effective clinical care	resources), manage, and utilize biomedical	
PC-11	20.		are in interprofessional teams	appeals of their professional lives and -	
PB-1	21.		eliable and dependable behavior in all s, society and the profession	aspects of their professional lives and a	
PB-2					

PB-3	22.	Honesty and integrity in all interactions with patients, families, staff, colleagues and others with whom students interact in their professional life		
	23.	Professionalism in dress, grooming, manner of speech and personal interactions with patients, families,		
PB-4	~ ~ ~	staff, colleagues and others with whom students interact in their professional life		
PB-5		Respect for the privacy and dignity of patients and their families		
PB-6		Compassionate treatment of patients		
PB-7	20.	Knowledge of, and respect for other health care professionals, and of the need to collaborate with others in caring for patients as well as promoting population health		
PB-7 PB-8	27	Knowledge of key principles required for delivery of culturally competent care		
FD-0	27.			
IPC-1	20.	and showing flexibility in potentially ambiguous situations		
	29.			
IPC-2		patients' families, colleagues, and others		
	30.			
		professionals in a respectful, professional and timely manner with patients, families and community at		
IPC-3		large		
	31.	The ability to communicate in a culturally competent manner with patients, families and community at		
IPC-4		large		
PBL-3	32.			
	33.	, , , , , , , , , , , , , , , , , , ,		
PBL-4		professionalism and implement remediation plans		
	34.			
PBL-7 SBP-4	35.	patients and populations		
SBP-5	35. 36.	The ability to apply fundamentals of basic sciences to clinical problems The ability to identify and report systems error as well as identify solutions		
JDF-J		The ability to participate effectively in and deliver care in an interprofessional team		
	57.	The ability to participate enectively in and deriver care in an interprotessional team		
Professionalism:		students will meet or exceed the institutional standards for professionalism as stated in the current		
FIDIESSIDIIdiisiii.		nal Program Objectives and the current Educational Course Objectives for the Sponsoring Department.		
Instructional Methods:				
matidetional methods.	-Problem-solving exercises (web-based case modules) -Small-group, Clinical skills and Didactic Sessions			
		Didactic sessions (web-based)		
		dent study		
		tion of technologies used in lab medicine to include but not limited to microbiology, transfusion medicine,		
	immunolo	bgy, clinical chemistry, hematology and molecular		
		tion of and participation in daily radiology cases		
		tion of image guided procedures		
	-Observa	-Observation of and participation of technologies used in radiology including but not limited to CT, MRI, US, DR,		
	and DM.			
		tion of and participation in surgical pathology and post-mortem examination		
		tion of and participation in fine needle aspiration and cytopathology		
		-Case discussions and clinical pathological correlation with individual faculty -Didactic sessions to include but not limited to neuropathology, hematopathology, molecular pathology,		
		sessions to include but not inflited to neuropathology, hematopathology, molecular pathology, plogy and genomics.		
		of teaching slides and discussion with faculty (scope time)		
		scussions with radiology and pathology correlation		
		sessions to include but not limited to subspecialty radiology in emergency, neuroradiology, GI/GU,		
		skeletal, cardiothoracic, interventional, and vascular.		
		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		
	7.	Test skills with unknown slides and clinical cases		
Prerequisites:	Successf	ul completion of blocks 1-7		
Clerkship Directors:	Amira Gohara, MD, Haitham Elsamaloty, MD			
Clerkship Coordinators:		y - Mary Carroll		
Phone Number:	419-383-			
Email:	Mary.Car	roll@utoledo.edu		
	Patholog	y - Jennifer Reynolds		
	419-383-			
	<u>Jennife</u> r.l	Reynolds4@utoledo.edu		

Special Requirements:

None

AAMC Hot Topics Addressed in this Elective Clerkship: (please make selection from attached Hot Topic list) Clinical Pathology Clinical problem solving/decision making Communication skills Diagnostic Imaging Evidence Based Medicine Health Care Quality Improvements Health Care Systems Medical ethics Medical Jurisprudence Medical Socioeconomics Practice Management Women's Health