Course: Neuroradiology Course Number: RAD 2104

Department: Radiology

Faculty Coordinator: Carlos Perez, MD

Hospital: Parkland Health and Hospital Systems; Meadows Clinic; Anderson Clinic

Periods Offered: All

Length: 4 weeks

Max # of Students: 2

First Day Contact: Alejandro Calderon Lopez

First Contact Time: 8:00 a.m.

First Day Location: Assigned clinical site

Prerequisites: Completion of a neurology rotation

I. Course Description

Goals	Objectives	Assessment methods
Patient Care:	After the rotation, students	Observations of faculty and
Students are expected to:	will:	staff
 Determine appropriateness of requested Neuroradiology CT and MRI exams for given clinical situations. 	Know indications and contraindications (by daily instruction) for and methods of performing neuroradiology CT and MRI	
 Determine any prerequisite laboratory values prior to study, such as recent serum creatinine/eGFR. 	studies. 2. Recognize contrast reactions through observation and be familiar with potential treatments.	
 Understand how to recognize contrast reactions and know their appropriate therapy. 		
Medical knowledge:	After the rotation, students	Observations of faculty and
Students will be knowledgeable in:	will:	staff
Normal CT and MRI anatomy of the brain, spine, and neck.	Become familiar with Neuroanatomy and wide range of	
The general range of pathological conditions of the central nervous system demonstrable by CT and MRI.	associated pathology through daily readouts. 2. Become familiar with the myriad MRI sequences used in	
The sequences employed in Neuro MRI imaging.	Neuroimaging through direct observation.	

Interpersonal and communication	Students will:	Observations of faculty and
skills:	 Observe residents, 	
Students will understand:	and faculty dictate	
The importance of	·	
·	and approve radio	
effective communication	reports in a timely	Tashion,
with physicians, other	and communicate	
health professionals, and	unexpected or sign	
health related agencies.	findings to referrin	
	clinicians in a time	,
	manner in person,	•
	phone, or via Voca	da pager
	alert activation sys	tem.
Practice Based learning and	Students will:	Observations of faculty and
Improvement:	1. Investigate and eva	aluate staff
Students will:	the care of patient	s by
 Demonstrate the ability to 	using information	
assimilate scientific	technology (EPIC, j	ournal
evidence and improve	reviews).	
patient care practices.		
Professionalism:	Students will:	Observations of faculty and
Students must demonstrate a	1. Maintain a profess	ional staff
commitment to carrying out	relationship with p	atients,
professional responsibilities and an	radiology faculty, r	adiology
adherence to ethical principles.	technicians, and re	
Residents are expected to	clinicians.	
demonstrate:	2. Keep patient's ider	ntifying
Respect for patient privacy	information confid	
and autonomy	3. Dress appropriatel	v and
2. Accountability to patients,	have adequate hyg	•
society, and the profession		,
Systems based practice:	Students will:	Observations of faculty and
Students will:	 Observe residents, 	
Demonstrate an	and faculty discuss	
awareness of and	referring clinicians	
responsiveness to the	objectives of Neur	
larger context and system	MRI exams and op	
of health care, as well as	imaging protocol a	
the ability to call	modality when the	
effectively on other	request provides li	
resources in the system to	clinical information	
-		
provide optimal health	distinctly different	
care.	exam/modality wo	
	better serve the in	terests of
	the patient.	

II. Methods of Instruction:

- A. Didactic (Block 1-4 and 7-10 Only):
 - 1.Monday Friday: 1:00-3:00 PM Diagnostic Radiology Medical Student Conferences 2.Optional:
 - i. Wednesday 7 a.m. ENT Skull-base Malignancy Conference and ENT Tumor Conference (CS0.106)
 - ii. Friday 12:00 p.m. Resident Neuroradiology Conference (CS0.106)
 - iii. Friday 12:30 p.m. Brain Tumor Conference (Zale Doctor's Conference Room)
- B. Clinical: Faculty teaching will be performed throughout the day during regular image interpretation read-out sessions and during procedures.

1.Schedule:

- i. Week 1 & 2: Students report to Parkland Neuroradiology Reading Room by 8:30 a.m. (First 2 weeks of block, under direction of Dr. Richard Suss).
- ii. Week 3 & 4: Students report to Neuroradiology Reading Room, Meadows MRI by 8:30 a.m. (Second 2 weeks of block, under direction of Dr. Carlos Perez).

IV. Overview of student responsibilities

The student is expected to participate in image interpretation sessions with clinical data and follow-up of patient outcome.

A. Attendance:

Per UTSW requirements for attendance for MS-4 clinical electives, the student may not miss more than 4 days of excused absences. Missing more than 4 days will result in an Incomplete grade. Due to limits on departmental resources and full monthly course enrollments, "make-up days" will not be permitted. Only four (4) total days of excused absences are permitted to still pass the course, with documentation of an appropriate reason provided to the Clerkship Coordinator.

Examples of appropriate reasons for excused absences include residency interviews or illness. Students should contact the Clerkship Coordinator, or the Radiology Education Office (RADEducation@UTSouthwestern.edu), with expected dates of excused absences at least one (2) weeks prior to the start of the course. In the event of illness or an unexpected absence (or missed lecture) arises, promptly contact the Clerkship Coordinator or the Radiology Education Office.

Students must attend daily conferences (a sign-in sheet will be posted at the front of the lecture hall). A conference is considered "missed" after the first 10 minutes. Any missed conferences (excluding those from pre-approved/excused absences) are required to be made up by attending the next available Resident Conference(s). Failure to make up missed lectures could result in unexcused absences. There is a limit of two (2) make-ups for missed lectures. Each additional missed lecture thereafter would result in an unexcused absence.

Please note that a Professionalism Form may be filled out when an unexcused absence occurs, and this becomes a part of the student's record in the student deans' office.

- IV. **Method of evaluation of students and requirements:** Evaluation based on assessment methods listed above, grade is Pass/Fail
 - A. This course is graded on a "Pass" or "Fail" basis. To receive a "Pass" grade, you must:
 - 1. Meet the attendance requirements assessed by Conference attendance and faculty signatures on the Clinical Site Attendance logs.
 - 2. Complete evaluations of the faculty and the overall course by Sunday following the last day of the block:
 - 2 Medhub conferences per day x 1 evaluation per lecturer = 2 Conference evaluations per day
 - o 1 Medhub evaluation (overall course evaluation)

All evaluations must be completed prior to the first lecture on the final day of the block. Students will not receive a Pass grade until all evaluations are completed and all other requirements have been met.

PLEASE LEAVE COMMENTS! We do rely on student feedback to make improvements to the course.