

Course: Vascular and Interventional Radiology Course Number: RAD 2103

Department: Radiology

Faculty Coordinator: Hriday Shah MD, Harold Park MD

Hospital: Parkland Health and Hospital Systems; University Hospital

Periods Offered: 4-12

Length: 4 weeks

Max # of Students: 4

First Day Contact: Alejandro Calderon Lopez – Alejandro.Calderon@UTSouthwestern.edu

First Contact Time: 7:00 am

First Day Location: Parkland IR Angio/ CUH Angio

Prerequisites: Completion of a Surgery Rotation

I. Course Description

Goals	Objectives	Assessment methods
Patient Care: Students, together with the supervising faculty, must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.	Students are expected to: <ul style="list-style-type: none">• Gather essential and accurate information about their patients through obtaining a pertinent medical history, physical exam and chart review• Develop recommendations for a management plan based on radiologic findings and clinical information• Demonstrate knowledge of proper technique in planning and performing image-guided procedures with the assistance of the attending faculty• Demonstrate effective and appropriate interaction with patients	<ul style="list-style-type: none">• Quality of patient workup and presentation• Direct observation of patient interaction• Skills evaluation from direct observation.
Medical knowledge: 1. The Student will be able to complete patient presentation in morning rounds 2. The student will know how to assess and manage basic patient pre-procedure workup	Students are expected to: <ul style="list-style-type: none">• Recognize and describe the relevant radiologic anatomy and abnormalities• Synthesize radiologic and clinical information and form an impression and treatment plan	<ul style="list-style-type: none">• Patient presentation in morning rounds• Participation in daily work flow (patient workup and management)• End of rotation case presentation

3. The student will know the indications for common procedures		
Interpersonal and communication skills: Students should communicate effectively with the patient and their family as well as to other members of the medical team.	Students are expected to: <ul style="list-style-type: none"> • Show sensitivity to and communicate effectively with all members of the health care team and to the patient • Be able to interact and communicate effectively and in a professional manner with IR staff • Be able to communicate effectively with referring services 	<ul style="list-style-type: none"> • Observation of daily interactions with patients • Observation of daily interaction with IR staff • Observation of daily interaction with referring services
Practice Based learning and Improvement: Students should investigate and evaluate patient care practices, and appraise and assimilate scientific evidence in order to improve their practices.	Students are expected to: <ul style="list-style-type: none"> • Locate and assimilate evidence from scientific studies related to their patients' health problems • Participate in quality improvement/assurance activities • Recognize and correct personal errors 	<ul style="list-style-type: none"> • Participation in morning rounds • Participation in daily workflow (patient workup, participation in cases, patient follow-up)
Professionalism: Students should be altruistic and accountable, and adhere to principles of medical ethics by respecting and protecting patients' best interest.	Students are expected to: <ul style="list-style-type: none"> • Demonstrate a commitment to ethical principles pertaining to confidentiality of patient information • Demonstrate responsiveness to the needs of patients • Demonstrate a responsible work ethic with regard to conference attendance Demonstrate a responsible work ethic with regard to service responsibilities and attendance 	<ul style="list-style-type: none"> • Observation of daily interactions with faculty, staff and patients • Shows up on time • Shows initiative (scrubs into cases, has read about patient and case before scrubbing in)
Systems based practice: Students should demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal	Students are expected to: Incorporate considerations of cost awareness and risk-benefit analysis in patient care. This will incorporate practice quality guidelines as proposed by the Society of Interventional Radiology as well as the American College of Radiology.	<ul style="list-style-type: none"> • Observation and participation in patient consent process • Is aware of appropriate indications and contraindications

health care.	If guidelines are available, this will be included in the student case presentation	for procedures
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III. Methods of Instruction:

A. Didactic:

Each morning, except Wednesday, from 7:00-7:30 a.m. there will be an IR specific lecture.

Blocks 1-4 and 7-10 Only:

There will be two (2) one-hour medical student didactic conferences every Monday – Friday afternoon from 1:00 PM – 3:00 PM. These lectures will be given by Radiology faculty or, occasionally, fellows or residents and will cover radiology topics appropriate for medical students. Attendance at these lectures while on the IR rotation is optional as you will likely be involved in cases at this time. It is expected that you will return to the IR rotation after conference to complete the cases for the day.

Radiology Grand Rounds occurs the 2nd and 4th Thursday of each month from 3:00 – 4:00 p.m. The lecture on the 4th Thursday is clinical related and attendance is required for the course.

B. Clinical:

Students are invited to observe and assist in interventional procedures daily at Parkland Memorial Hospital and at Clements' University Hospital. Interventional procedures at Parkland are performed in the Angiography Suites in the Interventional Radiology Department on the 2nd floor. The morning schedule begins at 7:00 A.M. with morning lecture and rounds, and ends with the completion of clinical cases. The students will not have call responsibilities. Faculty teaching will be performed throughout the day during the procedures. Resident and student teaching conferences are also outlined below in didactic section.

Schedule:

Monday

7:00 a.m. - IR Case of the Week by Fellows

7:30 a.m. - IR rounds

8:00 a.m. - Clinical Rotation

1:00 p.m. - 3:00 p.m. -Optional Radiology Didactic Lectures

3:00 p.m. – return to IR until completion of clinical cases

Tuesday

7:00 a.m. - IR Case of the Week by Attendings

7:30 a.m. - IR rounds

8:00 a.m. - Clinical Rotation

1:00 p.m. - 3:00 p.m. -Optional Radiology Didactic Lectures

3:00 p.m. – return to IR until completion of clinical cases

Wednesday

7:00 a.m. - Staff meeting (students do not attend)
8:00 a.m. - Rounds & Clinical Rotation
1:00 p.m. - 3:00 p.m. -Optional Radiology Didactic Lectures
3:00 p.m. – return to IR until completion of clinical cases

Thursday

7:00 a.m. - IR Didactics by Faculty
7:30 a.m. - IR rounds
8:00 a.m. - Clinical Rotation
1:00 p.m. - 3:00 p.m. -Optional Radiology Didactic Lectures
3:00 p.m. – return to IR until completion of clinical cases

Friday

7:00 a.m. - M&M/Journal Club/Research
7:30 a.m. - IR rounds
8:00 a.m. - Clinical Rotation
1:00 p.m. - 3:00 p.m. –Optional Radiology Didactic Lectures
3:00 p.m. – return to IR until completion of clinical cases

IV. Overview of student responsibilities

Student Responsibilities:

- A. Assist the residents, fellow and staff in evaluating new inpatients and outpatients. Evaluate new patients and help assimilate all of the patients' clinical information and radiographs to determine the most appropriate treatment plan. Participate as an assistant in the procedure planned for that patient.
- B. Students will also choose one interesting case or disease topic of interest that they saw during their rotation and give a 10-15 min presentation on this subject, to be presented during the last week of the rotation at the 7am lecture (please speak with Clerkship Director to coordinate the exact date). The presentation should include radiographic findings, pathologic findings, treatment options, expected results, any relevant patient follow-up, as well as a brief review of current literature.

Attendance

Evaluations will be based on a system of "Pass", or "Fail", for the overall course. Completion of the oral presentation is required for a "Pass" grade. Evaluations of the student by the faculty will be based on achievement of the stated objectives of the course. Similarly, evaluations of the elective by the student will include achievement of the stated objectives of the course.

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 with expected dates of excused absences at least one (1) week prior to the start of the course. In the event of illness or an unexpected absence (or missed lecture) arises, promptly contact Clerkship Coordinator or the Radiology Education Office.

Students must have a faculty member (NOT a resident or fellow) sign an attendance sheet at the completion of each day. The Clerkship Coordinator will collect these clinical attendance sheets on Fridays. Loss of faculty signatures could result in documented absences, which may count toward the maximum allowed absence days. Due to limited departmental resources and full monthly course enrollments, "make-up dates" for clinical service absences are not permitted.

IV. Method of evaluation of students and requirements: Evaluation based on assessment methods listed above, grade is Pass/Fail

This course is graded on a "Pass" or "Fail" basis. To receive a "Pass" grade, you must:

1. Meet the attendance requirements assessed by daily 7am conference attendance and faculty signatures on the Clinical Site Attendance logs.
2. Present a PowerPoint presentation of a case seen on service at the end of the course.
3. Complete evaluations of the faculty and the overall course by Sunday following the last day of the block:
 - a. Medhub conferences evaluations per conference you attend
 - b. Medhub 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.

Directions to Clinical Sites – Vascular and Interventional Radiology

PHHS Interventional Radiology (IR) - From the Charles Sprague Building, take the Sprague elevators to Floor 3, turn left, and open the door to take the Sky Bridge to the New Parkland Hospital. Once you have crossed over the sky bridge, take a right and walk down the hallway with the glass wall and then take a left with the glass wall. Before you get to the brown double doors, you will see white Authorized double doors on the left (the glass wall will be numbered 28 in front of it). Enter through these doors and walk straight until you reach the 2nd to last door on the right. It will say "Authorized Personnel Only" (IR/CATH/EP Suite), unlock door with badge. Walk down the hallway, last door on the left (Room #02-472).

UT Interventional Radiology (IR) – Take the Clements Connector to CUH, go in back door, turn left down hall with glass windows on left, take South elevators to 3rd floor, turn toward where windows where. Follow signs to IR 3-5. Control room is on the left.

VIR Administrative Offices - Professional Office Building 1 (POB1), 6th Floor, Interventional Radiology Conference Room (HP6.600). (POB1 is on the West Campus and can be found using map at <http://tinyurl.com/aab9lvv>)

Clinical Site Attendance Log

Course Number and Name: _____

Medical Student Name (Printed): _____

*Please have the **faculty member (may NOT be a fellow or resident)** you work with during your clinical site rotation complete this attendance log daily to document your attendance. Failure to do so could result in an absence for the day. This log should be turned in to the course coordinator every Friday afternoon before the 1:00 PM lecture, then you will receive a new weekly clinical site attendance log for the upcoming week. Refer to the RAD 1501 course description for the lecture and clinical rotation attendance and grading policy.*

Clinical Site: _____			
Dates on service: _____			
Day of Week	Faculty Name: (PRINT)	Faculty Signature:	Date:
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

NOTES:

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