Course: **Vascular and Interventional Radiology (RAD 1505)**

Department: Radiology  
Faculty Coordinator: Shellie Josephs, M.D.  
Hospital: Parkland Health and Hospital System, St Paul University Hospital, Zale Lipshy Hospital  
Periods offered: All  
Length: 4 weeks  
Max no. of students: 2  
First Day Contact: Karen Myrick, 214-645-8995, FAX - 214-645-8998  
First Day Time: 7:30 A.M.  
First Day Place: Special Procedures Suite, Ground floor, Radiology PMH  
Prerequisites: 3rd year Surgery and Internal Medicine Clerkship

I. **Course Description:**

Students will be a part of the Interventional Radiology team providing clinical care for inpatients and outpatients who require interventional radiology services. This will include assistance and observations during procedures as well as with clinical consultations.

A. **Course Goals and Objectives:**

Overall: The elective course in Vascular and Interventional Radiology is designed to give students an opportunity to be exposed to the wide range of procedures performed by practicing Interventional Radiologist. It will help the medical student understand the types of interventions performed, the indications for interventions as well as the risks and benefits of these interventions.

**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.

**Objectives:**

**Students are expected to:**

- 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.
**Medical Knowledge:**

Students must demonstrate knowledge about established clinical science and apply this knowledge to patient care.

**Objectives:**

Students are expected to:

- Recognize and describe relevant radiologic anatomy and abnormalities.
- Synthesize radiologic and clinical information and form an impression and treatment plan.
- Utilize information technology to investigate clinical questions and for continuous self-learning.

**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.

**Objectives:**

Students are expected to:

- Locate and assimilate evidence from scientific studies related to their patients’ health problems.
- Participate in quality improvement/assurance activities.
- Recognize and correct personal errors.

**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 health care.

**Objectives:**

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. If guidelines are available, this will be included in the student research presentation.

**Interpersonal and Communication Skills:**
Students should communicate effectively with the patient and their family as well as to other members of the medical team.

**Objective:**

Students are expected to:

- Show sensitivity to and communicate effectively with all members of the health care team and to the patient.
- Be able to recognize, appropriately communicate, and document in the patient record, urgent or unsuspected radiologic findings, including knowledge of the use of notification systems such as Vocada.

**Professionalism:**

Students should be altruistic and accountable, and adhere to principles of medical ethics by respecting and protecting patients’ best interest.

**Objective:**

Students are expected to:

- 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.

**II. Methods of Instruction:**

**A. Clinical:**

Students are invited to observe and assist in interventional procedures daily at Parkland Memorial Hospital and at St Paul University Hospital. Interventional procedures at Parkland are performed in the Special Procedures area in Radiology on the Ground floor. At St Paul Hospital, procedures are performed in the Angiography suite on the 6th floor. The morning schedule usually begins by 7:30 A.M. and ends with the completion of clinical cases and rounding. 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.

**B. Didactic**

- Monday 12:00 noon — GI Malignancy Conference (E6.224)
• Tuesday 7:30 A.M. – Resident Interventional Radiology conference (CS0.106)

• Wednesday 6:45 A.M. – Vascular Surgery Conference (E6.224)

• Thursday 8:00 A.M. – Trauma Conference, Anesthesia conference room
  Final Thursday of rotation, Student case presentation in SPUH POB1 6th floor conference room

• Friday 7:30 AM.- CTA conference, St Paul POB 1 6th floor

III. Student Responsibilities

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.

Students will also choose one patient or disease topic of interest and give a full presentation on this subject to include a brief review of current literature and typed description of expected clinical presentation, radiographic findings, pathologic findings, treatment options and expected results.

IV. Methods of Evaluation of Students:

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.