

## 680M INTERVENTIONAL RADIOLOGY (IR)

**Course Description:** The IR elective provides students with the opportunity to study IR patients in outpatient and hospital settings and participate in pre-, intra-, and post-procedural patient care. The clinical evaluation, pathogenesis, diagnosis, and treatment of IR diseases are taught. Emphasis is given to the analysis of non-invasive imaging used in the planning of IR procedures.

**Department:** Radiological Sciences

**Prerequisites:** Successful completion of 1st and 2nd year curriculum.

**Restrictions:** None

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**Site Coordinator:** Lindsay Wold, UC Irvine Medical Center, Department of Radiological Sciences, 101 The City Drive South, Building 1, Room 0115, Orange, CA 92868, Office: (714) 456-6595 Fax: (714) 456-6832 Email: [lwold@uci.edu](mailto:lwold@uci.edu)

**Site:** UC Irvine Medical Center

**Instructing Faculty:** Dr. Abi-Jaoudeh, Dr. Fernando, Dr. Katrivesis, Dr. Nelson

**Course Website:** None

**Location to Report on First Day:** Radiology Education Office, Bldg 20

**Time to Report on First Day:** 7:30 am

**Who to Report to First Day:** Lindsay Wold

**Periods Available:** Throughout the year

**Duration:** 2 to 4 weeks

**Number of Students:** 3 maximum

**Scheduling Coordinator:** UC Irvine students please email [comsched@uci.edu](mailto:comsched@uci.edu) or call (714) 456-8462 to make a scheduling appointment. Please read the following information carefully. Any student enrolled at a U.S. LCME medical school will use VSAS to apply. To apply please refer to this website <http://www.aamc.org/programs/vsas/>

**Course Objectives:** At the end of this rotation the student will be able to. . .

- Develop data integration, clinical reasoning, and oral presentation skills.
- Create differential diagnoses and treatment plans.
- Communicate medical information to patients in lay language.
- Improve time management skills.
- Continue their personal growth and the development of professional, ethical, and altruistic behaviors and attitudes.
- Appreciate the effect of social factors and cultural and health beliefs on patient health and illness.
- Search the medical literature for evidence-based patient-specific information and utilize evidence based medicine to conduct medical care.
- Experience IR as a clinical specialty.
- Learn about Medicare coding, Medicare compliance, insurance plans, and health care costs.

**Key Topics:**

- IR and general radiology
- Pathophysiology of vascular, oncological, urological and biliary diseases
- Evidence based medicine
- Professionalism
- Patient care
- Patient confidentiality
- Doctor-Patient communication
- Medicare compliance and managed care
- Advanced directives
- Consultative communications

**Competencies:**

- Obtain comprehensive histories and perform complete physical examinations
- Present a detailed history and physical and formulate a differential diagnosis, and plan management.
- Integrate clinical, laboratory and imaging data.
- Proficiency in time management and organizational skills.
- Gain experience in inpatient and outpatient care.
- Learn pre-procedural and post-procedural management.
- Use evidence based medicine to guide patient management.
- Acquire the knowledge of IR procedures.
- Gain familiarity with practice of Conscious Sedation and Intra-operative Biometric Monitoring.
- Learn to manage contrast reaction and toxicity.
- Gain familiarity with the imaging modalities of IR and acquire a basic skill level in the observation, synthesis, and management of medical imaging cases.

**Attitudes and Commitments:**

- Become confident in the role of primary care giver.
- Become more proficient in communication skills to aid in care of their patients.
- Gain greater understanding of professionalism in medicine.
- Accept responsibilities such as the primary workup of new patients, order writing, and note writing.
- Assume a high level of patient care responsibility in preparation for residency
- Strengthen their clinical and procedural skills
- Improve their ability to manage complex, acutely ill patients.
- Learn to work as a team member.
- Demonstrate commitment to the highest quality patient care

**Educational Activities:**

- Accompany the attending, resident, and/or fellow on rounds and participate in pre-procedural management.
- Report for morning conference.
- Assist in procedures and in pre and post procedural care.
- Break for lunch and attend radiology noon conference.
- Participate in clinics
- Assist in procedures and in pre and post procedural care.
- Attend Multidisciplinary case conferences

How many times is each student observed taking a history and examining patients? Several times a week.

**What Students Should do to Prepare for the Rotation:** review recommended readings

**Clinical Responsibilities of the Student:** See Above

**Patient Care Responsibilities:** See Above

**Call Schedule of the Student:** None

**Procedures to be Learned by the Student:** basic ultrasound guidance, fluid drainage

**Percentage of Time Student will Participate in Ambulatory Setting:** Up to one half a day per week

**Conference/Lecture/Small Group Sessions:** There are no standardized lectures for this course.

**Course Hours Weekly Summary:**

Throughout rotation	Case Based
4	Conference
Varies	Clinical Correlates
50	Patient-Care Activities
0.5	formal feedback sessions with preceptor
10	Ward Rounds
-60/week	Total

**Content Theme Integration:**

- Communication skills
- Death & Dying
- Decision Making
- Diversity
- Epidemiology
- Ethical Problems in Medicine
- Evidence Based Medicine
- Geriatrics
- Health Care Systems
- Home Health Care
- Humanities
- Informatics
- Integrative Medicine (CAM)
- Medical Jurisprudence
- Multicultural Medicine
- Nutrition
- Pain Management
- Palliative Care
- Patient-Health Education
- Practice Management
- Preventive & Health Maintenance
- Research Methods
- Spirituality
- Substance Abuse
- Technology Assessment

- Women's Health

**Recommended Reading(s):**

- Handbook of Interventional Radiologic Procedures, John E. , MD Aruny, Krishna, MD Kandarpa, Krishna Kandarpa, Lippincott Williams & Wilkins, 3rd edition
- Vascular and Interventional Radiology: The Requisites, John A. Kaufman, Michael J. Lee, C.V. Mosby; 1st edition

**Official Grading Policy:** The student will receive a grade of Honors, Pass or Fail. The student's final grade will be submitted on the standard UCI elective form. The student will be evaluated by attendings, fellows, and residents on clinical proficiency, procedural skills, participation, knowledge base, professionalism, and attendance. Throughout the rotation, the faculty preceptor encourages the student, gives the student feedback on performance, and advises the student on how to improve. Written evaluation by supervising physician. If the student fails the elective, a grade of "F" will be permanently recorded on his/her transcript. The student can repeat the course for a second grade, however, the "F" will not be removed from the transcript.