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

**Department:** Radiological Sciences

**Prerequisites:** Successful completion of 1st, 2nd, and 3rd year curriculum.

**Restrictions:** None

**Elective Director:** Laura Findeiss, M.D., UC Irvine Medical Center, Department of Radiological Sciences 101 The City Drive, Orange, CA 92868 714-456-5033 [lfindeis@uci.edu](mailto:lfindeis@uci.edu)

**Site Coordinator:** Melissa Khy, UC Irvine Medical Center, Department of Radiological Sciences, 101 The City Drive South, Building 56, Suite 300, Route 140 Orange, CA 92868, Office: (714) 456-5535 Fax: (714) 456-7430 Email: [mkhy@uci.edu](mailto:mkhy@uci.edu)

**Site:** UC Irvine Medical Center

**Instructing Faculty:** Dr. Findeiss, Dr. Vajgrt, Dr. Tom Nguyen, Dr. Fernando, Dr. Suzuki, Sr. Senturl, Dr. Fared

**Course Website:** None

**Location to Report on First Day:** Radiology Reception Area, Bldg 1, Basement

**Time to Report on First Day:** 8 am

**Who to Report to First Day:** Melissa Khy

**Periods Available:** Throughout the year except the month of July, Thanksgiving week, the week following Thanksgiving and the weeks that include Christmas and New Year’s Day.

**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/](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 VIR as a clinical specialty.
- Learn about Medicare coding, Medicare compliance, insurance plans, and health care costs.
Key Topics:

- VIR 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 VIR 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 VIR 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 (Vascular, Oncological, and Neurointerventional)
- Assist in procedures and in pre and post procedural care.
- Attend Multidisciplinary case conferences

4/1/2016
How many times is each student observed taking a history and examining patients? Approximately three times a day.

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: 1 night/week

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

Percentage of Time Student will Participate in Ambulatory Setting: One half a day per week is spent seeing clinic patients. Outpatient procedures are performed daily.

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

Course Hours Weekly Summary:

<table>
<thead>
<tr>
<th>Throughout rotation</th>
<th>Case Based</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Conference</td>
</tr>
<tr>
<td>Varies</td>
<td>Clinical Correlates</td>
</tr>
<tr>
<td>40</td>
<td>Patient-Care Activities</td>
</tr>
<tr>
<td>0.5</td>
<td>formal feedback sessions with preceptor</td>
</tr>
<tr>
<td>20</td>
<td>Ward Rounds</td>
</tr>
<tr>
<td>%7e60/week</td>
<td>Total</td>
</tr>
</tbody>
</table>

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

4/1/2016
• Women’s Health

**Required text(s):**

• Handbook of Interventional Radiologic Procedures, John E., MD Aruny, Krishna, MD Kandarpa, Krishna Kandarpa, Lippincott Williams & Wilkins, 3rd edition

**Recommended Reading(s):**


**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. Each week the resident, fellow, and faculty members are asked to submit short notes regarding the medical student’s clinical proficiency and operative skills. Each time a student participates in a case a record is made in the student’s procedure log book. During regularly scheduled weekly mentoring sessions the faculty preceptor encourages the student, gives the student feedback on performance, and advises the student on how to improve.

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.

<table>
<thead>
<tr>
<th>Oral Exams</th>
<th>Faculty &amp; Resident Observation</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>20%</td>
<td>80%</td>
<td>100%</td>
</tr>
</tbody>
</table>

4/1/2016