

## 680H ULTRASOUND DIAGNOSTIC RADIOLOGY

**Course Description:** Students will primarily observe performance and interpretation of general, vascular, and early obstetrical ultrasound examinations. Students will have the opportunity to participate in scanning of select cases. Students are taught primarily by the attending, fellow, and resident(s) on the service. There are no formal required reading assignments, but students will receive recommended readings and educational resources. The content of material taught will be guided by the mix of clinical cases as well as teaching file cases. By the completion of this elective, the student will have a grasp of the role and scope of ultrasonography in diagnosis across multiple disciplines. This elective will be of particular value for students considering careers in Obstetrics and Gynecology, Pediatrics, Internal Medicine, Surgery, and Diagnostic Radiology.

**Department:** Radiological Sciences

**Prerequisites:** UC Irvine students must have successfully completed the basic science curriculum. Extramural students must be in the final year of undergraduate medical education.

**Restrictions:** None

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

**Instructing Faculty:** Dr. Helmy, Dr. Houshyar, Dr. Lall, Dr. Lee, Dr. Ward

**Course Website:** None

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

**Location to Report on First Day:** Building 1, Room 0115

**Time to Report on First Day:** 9:00 am

**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) 456-3622 Fax: (714) 456-6832 Email: [lwold@uci.edu](mailto:lwold@uci.edu)

**Site:** UC Irvine Medical Center

**Periods Available:** Please refer to Medical Education scheduling grid.

**Duration:** 1 week only; additional weeks need approval from the department.

**Number of Students:** 1 maximum

**UC Irvine students** must officially enroll for the course by contacting the Scheduling Coordinator via email or phone (714) 456-8462 to make a scheduling appointment.

**Extramural students** enrolled at a U.S. LCME medical school must use VSAS to apply. To apply please refer to this website <https://students-residents.aamc.org/attending-medical-school/electives-andmake-courses/applying-away-electives-vsas/>

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

- Understand the role and scope of ultrasonography in patient care.
- Understand the indications and limitations of the most common ultrasound examinations.
- Review key anatomic landmarks, terminology, and technical specifications in diagnostic ultrasonography.

**Key Topics:**

- Normal anatomy, scan techniques, and terminology in medical ultrasound studies
- Appropriate indications and limitations of diagnostic ultrasound examinations
- Key findings in the most common pathologic conditions diagnosed by ultrasound

**Competencies:**

- Identification of normal anatomy
- Recognition of common disease states and conditions on ultrasound imaging
- Understand appropriateness and limitations of ultrasound in diagnostic workups and as adjuncts to clinical evaluation

**Attitudes and Commitments:**

Attitudes and Commitments:

- Participate as an engaged and active learner during the rotation
- Exhibit appropriate reading room etiquette through proper attentiveness and professionalism during read-out and scanning sessions
- Avoid non-clinical use of phones, laptops, tablets, and other electronic devices during teaching, read-out, and scanning sessions; please discuss exceptions with supervising radiologists/residents

**Educational Activities:**

- Readout of cases (throughout the day)
- Scan patients (when appropriate)
- Observe procedures (if patient consents)
- Attend daily departmental teaching conferences

**What Students Should do to Prepare for the Rotation:** Arrive with an eagerness to learn, review welcome announcement from course coordinator prior to start of the rotation

**Clinical Responsibilities of the Student:** Attend readouts, remain actively engaged

**Patient Care Responsibilities:** None

**Call Schedule of the Student:** None

**Procedures to be Learned by the Student:** To learn about the types of ultrasound procedures performed by our department.

**Percentage of Time Student will Participate in Ambulatory Setting:** None

**Conference/Lecture/Small Group Sessions:** Daily departmental teaching conferences

**Course Hours Weekly Summary:**

30	Case Based
5	Computer Assisted Instruction
5	Conference
40	Total

**Content Theme Integration:** None

**Recommended Reading:** To be assigned.

**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 UC Irvine elective form. The student will be evaluated by attendings and residents in the areas of interest, participation, completion of work undertaken, quality of understanding, knowledge base, professionalism, attendance, observational skills, and by asking appropriate questions. 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. Written evaluation by supervising physician.