

645N OB/GYN ULTRASOUND

This course is available to UCI students only.

Course Description: This elective is designed to offer prospective OB-GYN candidates the opportunity learn and/or improve their ultrasound skills of image acquisition and interpretation through hands-on practice and professional guidance from many specialists within the fields of Obstetrics and Gynecology.

Department: Obstetrics & Gynecology

Prerequisites: Admission to UCI medical school; completion of basic science curriculum; completion of OB-GYN third-year clerkship unless otherwise approved by clerkship director.

Restrictions: For UC Irvine students only

Course Director: Julianne Toohey, M.D., UCI Medical Center, 101 The City Drive South, Department of Ob/Gyn, OTC, Route 81, Orange, CA 92868 714-456-6618, jtoohey@uci.edu

Instructing Faculty: Dr. Toohey, Dr. Fox, Dr. Porto, Dr. Hameed, Dr. Hatfield, Dr. Vuchinic, Dr. Major, Dr. Lane, Dr. Guerrero, Dr. Harken, Dr. Saberi, Dr. Chung, Dr. Wing

Course Website: None

Who to Report to on First Day: Glenda Arciniega, gwatson@uci.edu UC Irvine Medical Center, Department of Ob/Gyn, 101 The City Drive South, Bldg. 56, Room 800, Orange, CA 92868 Phone: 714-456-6707 Fax: 714-456-8360

Location to Report on First Day: Please contact the site coordinator for details.

Time to Report on First Day: Please contact the site coordinator for details.

Site Coordinator: Glenda Arciniega, gwatson@uci.edu UCI Medical Center, Department of Ob/Gyn, 101 The City Drive South, Bldg. 56, Room 800, Orange, CA 92868 Phone: 714-456-6707 Fax: 714-456-8360

Site: UCI Medical Center and UCI Health OB-GYN clinics

Periods Available: January-September in 2-week blocks

Duration: 2 weeks

Number of Students: 1

Scheduling Coordinator: UCI students please email comsched@uci.edu or call (714) 456-8462 to make a scheduling appointment.

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

- Understand the applicability of ultrasound in both Obstetrics and Gynecology
- Independently acquire images for all organs routinely imaged by ultrasound in OB-GYN
- Independently acquire images for 1st, 2nd and 3rd trimester pregnancies
- Identify and interpret common Obstetric and Gynecologic pathologies

Key Topics:

- Key first trimester ultrasound topics: confirm presence of one or multiple IUPs, amnionicity/chorionicity, estimated gestational age via crown-rump length vs. gestational sac diameter, evaluation of suspected ectopic or molar pregnancy, NT measurement, placental location

- Key second-third trimester ultrasound topics: Standard Fetal Exam (fetal number, fetal presentation, amniotic fluid volume [amniotic fluid index vs. single deepest pocket vs. two-diameter pocket], placental location/appearance/relationship to cervical os, number of umbilical vessels, fetal cardiac activity, gestational age assessment and fetal weight estimation via BPD, HC, AC, FDL, maternal and fetal anatomic surveys.
- Key Gynecological ultrasound topics: evaluation of uterus, adnexal structures and cervix

Competencies:

- In both Obstetric and Gynecological ultrasound, the student should improve their ability in:
 1. Image acquisition
 2. Image interpretation
 3. Peer to peer instruction and collaboration

Attitudes and Commitments: Our aim is to expose students to the use of ultrasound in the fields of Obstetrics and Gynecology and not only improve their ultrasound skills but to help them become more confident and competent future resident physicians. We will emphasize an attitude of collaboration and joint instruction amongst peers, along with a commitment to improving diagnostic accuracy and efficiency with maximal safety and comfort for patients.

Educational Activities:

1. Obstetric Ultrasound lectures with Dr. Fox and Dr. Porto
2. Multiple Ultrasound reading assignments
3. Hands-on OB-GYN pathology lesson with mannequin
4. Maternal Fetal Medicine Clinic Ultrasound
5. Antepartum Ultrasound on UCI L&D floor
6. Fetal Echocardiogram Clinic
7. Outpatient Gynecology Clinic Ultrasound
8. OB-GYN M&M and Grand Rounds

What Students Should do to Prepare for the Rotation: Thorough understanding of Ambulatory Obstetrics and Gynecology

Clinical Responsibilities of the Student: Rounds, Office visits, Gyn Surgery

Patient Care Responsibilities: All patients should be treated respectfully as if the student were clinically responsible for the patient.

Call Schedule of the Student: None

Procedures to be learned by the Student: Obstetric Gynecologic ultrasound.

Percentage of Time Student will Participate in Ambulatory Setting: 100%

Conference/Lecture/Small Group Sessions: Students will receive a podcast lecture by both Dr. Fox and Dr. Porto regarding OB-GYN ultrasound topics and will have multiple ultrasound-related reading assignments. Each student will also have designated ultrasound sessions with attendings at the Maternal Fetal Medicine Clinic, Fetal Echocardiography clinic, UCI Gynecology Outpatient clinics, and UCI L&D ward.

Course Hours Summary:

Hour	Type
2	*Computer Assisted Instruction
2	Conference (M&M)

2	Grand Rounds
2	*Lecture (same as CAI above)
12	Patient-Care Activities (Wards)
54	Preceptorship
72	Total (in two weeks)

Content Theme Integration:

- Communication
- Women's Health

Required Reading:

- Ultrasonography in Pregnancy (ACOG Practice Bulletin, Number 101, Feb 2009).
- AIUM Practice Guideline for the Performance of Obstetric Ultrasound Examinations.
- First and second Trimester Ultrasound, What Not to Miss (PDF Lecture by Dr. Chasen)

Recommended Reading: www.sonoguide.com, www.fetalsono.com, Ultrasonography in Obstetrics and Gynecology by Peter Callen

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. 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.

To achieve an overall clerkship grade of PASS, a student must:

1. Complete all assigned readings
2. Attend all assigned lectures and/or clinic days
3. Acquire and interpret at least 20 obstetric and/or gynecologic ultrasound scans
4. Achieve a passing grade by evaluating clinical preceptors at completion of clerkship

Failure to achieve these stated scores will result in failure of the course. The clerkship director may choose to write a narrative summary of each student's performance based upon the director's interpretation of the most clearly representative comments and evaluations received for each student. Some comments or contributions are subject to editing if, in the opinion of the director, they are not representative of a fair evaluation of the student's performance and abilities.

If there is a question regarding any evaluation, students should schedule an appointment with Dr. Toohey, the course director, after Final Grades have been calculated. Appointments should be scheduled through the Clerkship Program Representative. Students may not directly contact their clinical preceptor regarding their evaluation after it has been completed and submitted to Medical Education.