

Course: 2002 Exploration of Ob/Gyn Sonography **Course Number:** OBG 2002

Department: Obstetrics & Gynecology

Faculty Coordinator: Josiah Hawkins, MD

Location: Ob/Gyn Sonography unit (NPC WISH Clinic Bldg., 4th floor)

Length: 2 weeks

Prerequisites (if any): The rotation may be more meaningful for students who have completed the Ob/Gyn core clerkship, but it is not required that they do so.

Periods offered: January-June

Number of students per 2 week period: 1

First day Contact: Regina Williams ObGynPost-Clerkship@UTSouthwestern.edu,

Office Phone: 214-648-3306 **Office Location:** G6.202D

First day time: 8:30 am

First day location: Ob/Gyn Sonography unit (NPC WISH Clinic Bldg., 4th floor)

- I. **Course Description:** This is a 2 week introduction to Ob/Gyn sonography. It is intended to permit the student to explore how sonography is used to assist in the evaluation of frequently-encountered clinical scenarios in Obstetrics and Gynecology, including the diagnosis of normal pregnancy, pregnancy complications, and gynecologic disorders. The purpose of the course is to allow the student to gain an appreciation for how sonography is used in prenatal care and in the evaluation of gynecologic complaints, both in the clinic and acute-care settings. This may complement the clinical experience for students interested in a career in Obstetrics and Gynecology or Radiology.

II. **Learning Goals/Objectives:**

a. Patient Care:

- i. The student will be able to list appropriate indications for performance of obstetrical and gynecologic sonograms.
- ii. The student will be able to list the components of obstetric sonograms (examinations) in the first, the second and third trimesters.
- iii. The student will be able to list the components of gynecologic sonograms.
- iv. The student will learn about the reporting of obstetric and gynecologic sonograms, including documentation of normal and abnormal findings.

b. Medical knowledge

- i. The student will learn to recognize the anatomic structures that are imaged during each obstetric and gynecologic sonogram.
- ii. The student will learn about use of transabdominal and transvaginal sonography equipment.

- iii. The student will have the opportunity to learn about how sonographic findings are used to assist in diagnosis and management within the specialty of Obstetrics & Gynecology.
- c. Professionalism
 - i. The student will be punctual and complete all required work.
 - ii. The student will demonstrate respect and compassion for patients, families and support staff.
 - iii. The student will demonstrate respect for patient privacy and autonomy.
- d. Interpersonal and Communication skills
 - i. The student will communicate effectively with colleagues and health professionals
 - ii. The student will communicate effectively with patients and families as appropriate.

III. Methods of Instruction:

- a. The student will be paired with a Registered Diagnostic Medical Sonographer (RDMS) in either the Ob/Gyn Sonography unit or Ob/Gyn Emergency Service (OGES). The student will directly observe obstetric and gynecologic sonograms in order to learn about the components of each examination type and how findings are reported. The student will review the indication for the sonogram with the sonographer, reading the electronic medical record as appropriate. Also, when appropriate, the sonographer will permit the student to assist with performance of sonograms under the sonographer's direct supervision.
- b. The student will be encouraged to review images with attending physicians, residents and fellows during prescribed times during the 2-week rotations. Dr. Hawkins will also provide his cell phone to discuss any questions the student might have.
- c. The student will be encouraged to attend certain Wednesday conferences of the Obstetrics and Gynecology department.

IV. Course Requirements:

- a. To complete the learning goals and objectives described above.

V. Method of Evaluation of the Student:

- a. The student will keep a journal in which they will compile the printed images they acquire while scanning with the sonographer during the rotation, and juxtapose these printed images with an adjacent schematic, which they will draw and label with the relevant anatomy depicted in the printed image. They will discuss their journal progress weekly with Dr. Hawkins and at the end of the rotation, submit a copy of their journal to Dr. Hawkins.

VI. Recommended Reading (if any):

Williams Obstetrics (26th edition, Chapters 14 and 15), and Williams Gynecology, 4th edition, Chapter 2), both available through the UTSW Library website.

Also available via the UT Southwestern Library website:

AIUM. AIUM Practice Parameter for the Performance of Fetal Echocardiography.

<https://onlinelibrary.wiley.com/doi/10.1002/jum.15188>

Malinger et al. ISUOG Practice Guidelines (updated): sonographic examination of the fetal

central nervous system. Part 1: performance of screening examination and indications for targeted neurosonography. *Ultrasound Obstet Gynecol.* 2020.

<https://obgyn.onlinelibrary.wiley.com/doi/full/10.1002/uog.22145>

Paladini et al. ISUOG Practice Guidelines (updated): sonographic examination of the fetal central nervous system. Part 2: performance of targeted neurosonography. *Ultrasound Obstet Gynecol.* 2021. <https://obgyn.onlinelibrary.wiley.com/doi/10.1002/uog.23616>