

**Annual Ob-Gyn Ultrasound Course**  
**Baylor College of Medicine Department of Obstetrics & Gynecology 2024**  
**December 6, 2024**

Virtual Course

**Title: Optimizing Practices in Obstetric & Gynecologic Imaging**

**Directors:** Laura Detti, MD, FAIUM  
Joan M. Mastrobattista, MD, FAIUM

**Gynecology Speakers:**

- Laura Detti, MD, FAIUM
- Sheila Hill, MD, FAIUM
- Lauri Hochberg, MD, FAIUM
- Francisco Orejuela, MD

**Obstetric Speakers:**

- Jane Burns, RDMS
- Sandra Darilek, MS, CGC
- Vanessa Duran, RDMS
- Giancarlo Mari, MD, FAIUM
- Joan Mastrobattista, MD, FAIUM
- Martha Rac, MD

**Global Learning Objectives**

The GYN session will provide a fundamental understanding of ultrasound imaging and its clinical benefits in reproductive medicine with specific emphasis on the role of 3D imaging and sonohysterography. The use of ultrasound for evaluation of ovarian reserve, follicle monitoring, adenomyosis, fibroids, endometriosis, uterine anomalies and early pregnancy will be reviewed.

**Learning Objectives for Gyn:**

- **Pelvic Organ Assessment:** Explain the clinical benefits of ultrasound in the evaluation of the pelvic organs
- **Uterine Cavity Assessment:** Discuss the evaluation of the uterine cavity for early pregnancy and for minimally invasive surgery plans
- **Pelvic Floor Pathology Assessment:** Explain the diagnostic and prognostic ability of ultrasound for the pelvic floor

**Course Schedule**

<b>08:00 – 08:10</b>	<b>Course and Speaker Introduction</b>	<b>Laura Detti, MD</b>
<b>08:10 – 09:00</b>	<b>Basic guidelines for an effective gynecological assessment with ultrasound and the role of 3D ultrasound of the pelvic organs</b>	<b>Sheila Hill, MD</b>
<b>09:00 – 09:25</b>	<b>Transvaginal ultrasound and sonohysterogram in the work-up for abnormal uterine bleeding in the reproductive-age woman -Tubal patency</b>	<b>Laura Detti, MD</b>

09:25 – 09:55	Transvaginal ultrasound in the diagnosis of superficial and deep-infiltrating endometriosis	Lauri Hochberg, MD
09:55– 10:05	Break	
10:05 – 10:35	Uterine fibroids and Adenomyosis: different conditions with similar outcomes on fertility and pelvic pain	Lauri Hochberg, MD
10:35 – 11:00	Ultrasound evaluation of the early pregnancy: normal vs. abnormal pregnancy	Laura Detti, MD
11:00 – 11:40	Ultrasound diagnosis of Ectopic pregnancy	Sheila Hill, MD
11:40 – 12:05	Ultrasound as a screening tool for the benign adnexal pathology	Laura Detti, MD
12:05 – 12:35	Ultrasound evaluation of the pelvic floor	Francisco Orejuela, MD
12: 35- 1:00	Break/Q &A	

### Global Learning Objectives

The OB session will explore essential techniques for enhancing ultrasound image quality, key first-trimester biometry and chorionicity identification in multiple gestations, comparative insights into genetic screening tests, and critical landmarks for cervical and fetal assessment. Additionally, it will cover the types and applications of Doppler screening in pregnancy, providing a comprehensive guide to optimizing practices in obstetric imaging.

### Learning objectives for Ob:

- **Image Quality:** Discuss techniques to enhance ultrasound image clarity
- **First Trimester Biometry and Chorionicity:** Describe key parameters for pregnancy dating and identifying chorionicity in multiple gestations
- **Genetic Screening:** Compare tests before and during pregnancy
- **Cervical and Fetal Assessment:** Discuss landmarks for cervical length measurement and second trimester fetal anatomic survey
- **Doppler Screening:** Classify types and applications in pregnancy

1:00 – 1:30	Genetic screening tests prior to and in pregnancy	Sandra Darilek, MS, CGC
1:30 – 2:00	Knobology and Image Acquisition: How to improve images	Vanessa Duran, RDMS
2:00 – 2:30	Approach to Cervical Screening	Martha Rac, MD
2:30 – 2:45	Q&A and BREAK	
2:45 – 3:15	1 <sup>st</sup> Trimester Dating & Assessment of Chorionicity	Joan Mastrobattista, MD
3:15 – 4:00	2 <sup>nd</sup> trimester Dating & Basic Fetal Anatomic Survey	Jane Burns, RDMS
4:00 – 4:30	Application of Doppler Screening in Pregnancy	Giancarlo Mari, MD
4:30 – 5:00	Questions and faculty panel	All Faculty