**Annual Ob-Gyn Ultrasound Course**

**Baylor College of Medicine Department of Obstetrics & Gynecology 2024**

**December 6, 2024**

Virtual Course

**Title: Ultrasound imaging of the female pelvis and obstetric scanning: from basics concepts to improving pregnancy outcomes**

**Chairs:** 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

**Learning Objectives**

**This course 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:**

* Understand the clinical benefits of ultrasound in the evaluation of the pelvic organs.
* Appraise the ultrasound evaluation of the fallopian tubes, tubal patency and ectopic pregnancy.
* Optimize uterine cavity evaluation and plan for minimally invasive surgery and early pregnancy.
* Understanding of the diagnostic and prognostic ability of ultrasound for the pelvic floor.
* Assess the value of ultrasound imaging for the diagnosis of endometriosis and deep infiltrating endometriosis

**Course Schedule**

**08:00 – 08:10 Course and Speaker Introduction (Laura Detti)**

**08:10 – 09:00 Basic guidelines for an effective gynecological assessment with ultrasound and the role of 3D ultrasound of the pelvic organs (Sheila Hill)**

**09:00 – 09:25 Transvaginal ultrasound and sonohysterogram in the work-up for abnormal uterine bleeding in the reproductive-age woman -Tubal patency (Laura Detti)**

**09:25 – 09:55 Transvaginal ultrasound in the diagnosis of superficial and deep-infiltrating endometriosis (Lauri Hochberg)**

**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)**

**10:35 – 11:00 Ultrasound evaluation of the early pregnancy: normal vs. abnormal pregnancy (Laura Detti)**

**11:00 – 11:40 Ultrasound diagnosis of Ectopic pregnancy (Sheila Hill)**

**11:40 – 12:05 Ultrasound as a screening tool for the benign adnexal pathology (Laura Detti)**

**12:05 – 12:35 Ultrasound evaluation of the pelvic floor (Francisco Orejuela)**

**12: 35- 1:00 Break/Q &**

**Learning objectives for Obstetric session:**

* Describe methods to improve image quality
* Understand 1st trimester biometric parameters for pregnancy dating
* Characterize chorionicity in multiple gestations
* Contrast genetic screening tests utilized prior to and during pregnancy
* Describe appropriate landmarks for cervical length assessment
* Describe important landmarks of a second trimester fetal anatomic survey
* Describe types of Doppler screening 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 1st Trimester Dating & Assessment of Chorionicity Joan Mastrobattista, MD**

**3:15 – 4:00 2nd trimester Dating & Basic Fetal Anatomic Survey Jane Burns, RDMS**

**4:00 – 4:30** **Application of Doppler Screening in Pregnancy Giancarlo Mari, MD**

**4:30 – 4:45**  Questions and faculty panel All Faculty