



DECEMBER 12, 2020 | 10:00 AM–4:30 PM ET

# Maternal-Fetal Medicine Part 2

Valuable Ultrasound Specialty Education & CME Opportunities!

AIUM leaders from the Fetal Echocardiography, Obstetric Ultrasound, and Basic Science & Instrumentation communities will present a comprehensive program on the latest advances in Maternal and Fetal Medicine through a series of lectures, simple and advanced image reviews, case presentations, and live Q&A sessions. Attendees who participate in this full-day program can **earn up to 5 CME credits**.

## SCHEDULE

(All times are listed in Eastern Standard Time)

### Imaging the Future of Obstetrics Through the Lens of Preterm Birth I

#### Learning Objectives:

- Describe the technique for transvaginal ultrasound measurement of the cervix, as well as its value and shortcomings;
- Discuss why assessing tissue elasticity and viscoelasticity is critical to comprehensive evaluation of biological tissues; and
- Explain why solving complex clinical problems, such as preterm birth, will require cooperation between many areas of basic and clinical sciences.

#### 10:00 am–10:05 am: Introduction

Jude Crino, MD, FAIUM

#### 10:05 am–10:20 am: How, Why, and When to Measure Cervical Length

Joanne Stone, MD, MSHCDL

#### 10:20 am–10:35 am: Quantitative Ultrasound Evaluation of Pregnancy Tissues

Helen Feltovich, MD, MS

#### 10:35 am–10:50 am: Elasticity, Viscosity, and Dispersion: What the Clinician Needs to Know

Ivan Rosado-Mendez, PhD

#### 10:50 am–11:00 am: Question and Answer

Jude Crino, MD, FAIUM

### Imaging the Future of Obstetrics Through the Lens of Preterm Birth II

#### Learning Objectives:

- Describe how biomechanical modeling can identify how multiple pregnancy tissues contribute to both maintaining a fetus in utero and facilitating its delivery;
- Discuss artificial intelligence/ machine learning approaches to analyzing obstetric imaging, and other, biomarkers; and
- Explain why solving complex clinical problems, such as preterm birth, requires cooperation between many areas of basic and clinical sciences.

#### 11:15 am–11:20 am: Introduction

Tim Hall, PhD, FAIUM

#### 11:20 am–11:35 am: Using AI and Machine Learning to Mine Imaging Data

Aris Papageorghiou, MD, FRCOG, FAIUM

#### 11:35 am–11:50 am: Future Solutions to the Ancient Problem of Preterm Birth

Michael House, MD

#### 11:50 am–12:05 pm: Toward a Comprehensive Picture of Pregnancy Tissues Through Combining B-mode and Quantitative Ultrasound with Finite Element Modeling

Kristin Myers, PhD

#### 12:05 pm–12:15 pm: Question and Answer

Tim Hall, PhD, FAIUM

REGISTER TODAY!

### 12:15 pm–1:00 pm: Break

### How is 3D/4D Ultrasound Imaging Utilized in Prenatal Diagnosis

#### Learning Objectives:

- Gain an understanding of volume imaging and the important role it plays in imaging the fetal brain, face, and heart; and
- List imaging techniques for imaging the fetal brain, face, and heart.

### 1:00 pm–1:05 pm: Introduction

Mishella Perez, BS, RDMS, RDCS

### 1:05 pm–1:20 pm: Fetal CNS

Dolores Pretorius, MD, FACR, FAIUM, FSRU

### 1:20 pm–1:35 pm: Fetal Face

Mishella Perez, BS, RDMS, RDCS

### 1:35 pm–1:50 pm: Fetal Heart

Gregory Devore, MD, FACOG, FAIUM

### 1:50 pm–2:00 pm: Question and Answer

Mishella Perez, BS, RDMS, RDCS

### Just Images: Test Your Skills in Prenatal Diagnosis

#### Learning Objectives:

- Identify abnormalities seen in the fetal anatomic evaluation in the first and second/third trimesters;
- Describe normal anatomic structures and avoid imaging pitfalls; and
- Apply skills learned in screening and prenatal diagnosis of ultrasound defects.

### 2:15 pm–2:20 pm: Introduction

Arij Faksh, DO

### 2:20 pm–2:40 pm: First-Trimester Anomalies and Pathology

Reem Abu-Rustum, MD, FACOG, FACS, FAIUM, and Kendra Sylvester-Armstrong, MD

### 2:40 pm–3:00 pm: 2nd- & 3rd-Trimester Anomalies and Pathology

Timothy Canavan, MD, MSc, FAIUM

### 3:00 pm–3:15 pm: Question and Answer

Arij Faksh, DO

### Case Presentations: Complex Fetal Malformations and Syndromes

#### Learning Objectives:

- Review images and findings for complex anomaly syndromes, including imaging pearls; and
- Describe the approach to complex fetal anomaly evaluation and management.

Note: This series is being offered as a live online event only. A recording will not be available.

### 3:30 pm–3:35 pm: Introduction

Joan Mastrobattista, MD

### 3:35 pm–3:50 pm: Fetal CNS: Posterior Fossa Abnormalities

Ana Monteagudo, MD, RDMS, FAIUM

### 3:50 pm–4:05 pm: Fetal Skeleton & Limb Disorders

Anne Kennedy, MB, BCh, BAO, FAIUM

### 4:05 pm–4:20 pm: Fetal Genitourinary

Luis Goncalves, MD

### 4:20 pm–4:30 pm: Question and Answer

Joan Mastrobattista, MD

### REGISTRATION FEES

REGISTER TODAY!

- **Members:** \$200
- **Nonmembers:** \$450



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