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# A CME Teaching Activity

# 2020 Advances in Ultrasound in Obstetrics & Gynecology



16.75 AMA PRA Category 1 Credit(s)<sup>™</sup> Release Date: September 1, 2020



# About This CME Teaching Activity

This CME activity is a practical, clinically oriented review of recent advances in first trimester ultrasound. A mix of topics including comprehensive normal fetal anatomy along with abnormalities of major organ systems in the first trimester is included. Guidelines and indications for imaging in the first trimester are presented so participants can implement these into their clinical practices. Tips, images, and pitfalls provide balance to the program.

## **Target Audience**

This program is designed for obstetricians and gynecologists, maternal-fetal medicine physicians, radiologists, family medicine physicians, genetic counselors and sonographers, who order, perform and interpret ultrasound examinations in obstetrics and gynecology. The goal of this educational activity is to bring the level of practice for the health practitioners to a higher degree of proficiency in obstetric sonography.

# **Scientific Sponsor**

Educational Symposia

# Accreditation

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

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### AMA PRA Category 1 Credit(s)<sup>™</sup> for this activity may be claimed until August 31, 2023.

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This activity was planned and produced in accordance with the ACCME Essential Areas and Elements.

# **Educational Objectives**

At the completion of this CME teaching activity, you should be able to:

- Assess normal fetal anatomy in the first trimester.
- Explain the indications and national guidelines for first trimester ultrasound.
- Optimize scanning parameters and techniques of the first trimester ultrasound examination.
- Review major fetal malformations that can be diagnosed in early gestation.
- Discuss the use of ultrasound in screening for fetal aneuploidy in the first trimester.
- Describe the indications for performing saline infusion sonohysterography.
- Recognize the sonographic findings in ectopic pregnancy.
- Optimize parameters in obstetric ultrasound.

No special educational preparation is required for this CME activity.

# Faculty

#### Alfred Abuhamad, M.D.

Professor and Chairman Department of Obstetrics and Gynecology Vice Dean for Clinical Affairs Eastern Virginia Medical School Norfolk, VA

#### Reem S. Abu-Rustum, M.D., FACOG, FACS, FAIUM

Associate Professor Division of Maternal Fetal Medicine Department of Obstetrics and Gynecology University of Florida Gainesville, FL

#### Beryl R. Benacerraf, M.D.

Professor of Obstetrics, Gynecology and Reproductive Biology, Part-time Professor of Radiology, Part-time Brigham and Women's Hospital Department of Obstetrics Gynecology and Reproductive Biology Harvard Medical School Boston, MA

#### Bryann Bromley, M.D.

Professor of Obstetrics, Gynecology and Reproductive Biology, Part time Massachusetts General Hospital Harvard Medical School Diagnostic Ultrasound Associates, partner Boston, MA

#### Lawrence D. Platt, M.D.

Director Center for Fetal Medicine and Women's Ultrasound Professor (Clinical) Ob Gyn David Geffen School of Medicine at UCLA Los Angeles, CA

#### Leslie M. Scoutt, M.D.

Professor of Radiology, Surgery & Cardiology Vice Chair for Education, Department of Radiology & Biomedical Imaging Medical Director of the Non-Invasive Vascular Lab Yale School of Medicine New Haven, CT

#### Elena Sinkovskaya, M.D., Ph.D.

Associate Professor of Obstetrics and Gynecology Director of Ultrasound Research & Education Division of Maternal-Fetal Medicine Eastern Virginia Medical School Norfolk, VA

#### Thomas C. Winter, III, M.D., FACR

Professor of Radiology and OB-Gyn Director of Body Imaging University of Utah School of Medicine Salt Lake City, UT

## Program

#### **Session 1**

The New "Detailed First Trimester Ultrasound": National Guidelines *Bryann Bromley, M.D.* 

How to Get the Best Ultrasound Image in the First Trimester *Alfred Abuhamad, M.D.* 

First Trimester Ultrasound: Pregnancy Dating & Elements of Failed Pregnancy *Beryl R. Benacerraf, M.D.* 

Genetic Screening and Diagnosis in Early Gestation *Lawrence D. Platt, M.D.* 

#### Session 2

The Role of First Trimester Ultrasound in the Evaluation of Multiple Pregnancies *Reem S. Abu-Rustum, M.D., FACOG, FACS, FAIUM* 

Ectopic Pregnancy: Role of Ultrasound In Diagnosis & Management *Beryl R. Benacerraf, M.D.* 

Case Presentation 1 Elena Sinkovskaya, M.D., Ph.D.

Ultrasound Scanning Demonstration 1: The Detailed First Trimester Ultrasound *Reem S. Abu-Rustum, M.D., FACOG, FACS, FAIUM* 

Just Images: Normal & Abnormal Fetal Anatomy in Early Gestation Bryann Bromley, M.D.

#### Session 3

First Trimester Ultrasound: The Fetal Brain *Elena Sinkovskaya, M.D., Ph.D.* 

First Trimester Ultrasound: The Fetal Face & Neck *Beryl R. Benacerraf, M.D.* 

First Trimester Ultrasound: The Fetal Heart Reem S. Abu-Rustum, M.D., FACOG, FACS, FAIUM

First Trimester Ultrasound: The Fetal Gastrointestinal Tract *Lawrence D. Platt, M.D.* 

#### Session 4

First Trimester Ultrasound: The Fetal Genitourinary Tract *Alfred Abuhamad*, *M.D.* 

First Trimester Ultrasound: The Fetal Skeletal System *Lawrence D. Platt, M.D.* 

Case Presentation 2 Elena Sinkovskaya, M.D., Ph.D.

Ultrasound Scanning Demonstration 2: Focus on the Fetal Heart *Elena Sinkovskaya, M.D., Ph.D.* 

#### Session 5

The Placenta & Umbilical Cord in Early Gestation *Elena Sinkovskaya, M.D., Ph.D.* 

Placenta Accreta Spectrum: Sonographic Markers in Early Gestation *Bryann Bromley, M.D.* 

Adnexal Masses: What's Benign & What's Malignant Alfred Abuhamad, M.D.

Congenital Mullerian Malformations: Role of 3D Ultrasound in Diagnosis *Beryl R. Benacerraf, M.D.* 

#### **Session 6**

Case Presentation 3 Elena Sinkovskaya, M.D., Ph.D.

Ultrasound Scanning Demonstration 3: Focus on the Fetal Brain *Elena Sinkovskaya, M.D., Ph.D.* 

The Mid Sagittal Plane in the First Trimester: Putting it all Together *Reem S. Abu-Rustum, M.D., FACOG, FACS, FAIUM* 

Case Presentation 4 Elena Sinkovskaya, M.D., Ph.D.

#### **Session 7**

Ultrasound of the Endometrium and SIS *Thomas C. Winter, III, M.D.* 

1st Trimester Ultrasound Leslie M. Scoutt, M.D.

#### **Session 8**

Fetal GU Ultrasound Thomas C. Winter, III, M.D.

Ectopic Pregnancy Leslie M. Scoutt, M.D.

#### **Session 9**

Pelvic Pain Leslie M. Scoutt, M.D.

Obstetric Sonography: Dos and Don'ts *Thomas C. Winter, III, M.D.* 



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