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A CME Teaching Activity

2020

# Fetal Echocardiography:

Normal and Abnormal Hearts

**Designated for SA-CME**

16.75 AMA PRA Category 1 Credit(s)<sup>TM</sup>

Release Date: February 15, 2020

ESI Educational  
Symposia

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## About This CME Teaching Activity

The CME activity provides detailed information on the evaluation of the normal fetal heart both from an anatomic and functional approach. Detailed information on the use of three-dimensional ultrasound in fetal echocardiography and cardiac imaging in the early gestation is presented. The activity also provides a comprehensive evaluation of various cardiac malformations, involving abnormalities of the cardiac chambers and the outflow tracts.

## Target Audience

This CME activity will greatly benefit physicians in the fields of obstetric imaging, fetal echocardiography and pediatric cardiology. Residents in obstetrics and gynecology, as well as fellows in maternal fetal medicine and pediatric cardiology, will also benefit greatly. It should also prove valuable to those physicians wanting to gain a more in-depth knowledge of fetal echocardiography.

## 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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**SA-CME:** Credits awarded for this enduring activity are designated “SA-CME” by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.

All activity participants are required to take a written or online test in order to be awarded credit. (Exam materials, if ordered, will be sent with your order.) All course participants will also have the opportunity to critically evaluate the program as it relates to practice relevance and educational objectives.

**AMA PRA Category 1 Credit(s)<sup>™</sup> for this activity may be claimed until February 14, 2023.**

This CME activity was planned and produced by Educational Symposia,  
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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:

- Discuss indications for fetal echocardiography, review existing guidelines and the approach to patient counseling.
- Optimize ultrasound equipment for the use of 2D and Doppler in fetal echocardiography.
- Review the normal fetal cardiac anatomy.
- Describe the abnormalities of the venous system of the fetal heart.
- Discuss in detail anomalies of the cardiac chambers to include septal defects and anomalies of the right and left ventricle.
- Review in detail anomalies of the outflow tracts to include transposition of great arteries, tetralogy of Fallot complex and aortic arch abnormalities.

*No special educational preparation is required for this CME activity.*

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Vice Dean for Clinical Affairs  
Eastern Virginia Medical School  
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*Associate Professor of Obstetrics and Gynecology  
Director of Ultrasound Research & Education  
Division of Maternal-Fetal Medicine  
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Norfolk, VA*

**SESSION 1**

New National Guidelines for  
Fetal Echocardiography: A Sneak Preview  
*Alfred Abuhamad, M.D.*

Fetal Echocardiography: How to Optimize  
the Ultrasound Examination  
*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Screening for Cardiac Malformations  
in the First & Second Trimesters of  
Pregnancy  
*Elena Sinkovskaya, M.D., Ph.D.*

Normal Cardiac Anatomy:  
The Cardiac Chambers  
*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Just Images & Movie Clips:  
Do You Know the Diagnosis?  
*Elena Sinkovskaya, M.D., Ph.D.*

**SESSION 2**

Anomalies of the Cardiac Chambers 1:  
Atrial & Ventricular Septal Defects  
*Elena Sinkovskaya, M.D., Ph.D.*

Anomalies of the Cardiac Chambers 2:  
Atrioventricular Septal Defects  
*Lynn L. Simpson, M.D., FACOG*

Anomalies of the Cardiac Chambers 3:  
Abnormal Right Ventricle  
*Anita J. Moon-Grady, M.D.*

Anomalies of the Cardiac Chambers 4:  
Hypoplastic Left Heart Syndrome  
*Jack Rychik, M.D.*

**SESSION 3**

Hands on Scanning Session I: Fetal Echo-  
cardiography: Gray Scale & Color Doppler  
*Lynn L. Simpson, M.D., FACOG*

Anomalies of the Cardiac Chambers 5:  
Single Ventricle-Type Congenital Heart  
Disease  
*Jack Rychik, M.D.*

Neurodevelopment Outcome of the  
At-Risk Fetus with CHD  
*Mary T. Donofrio, M.D., FAAP, FACC, FASE*

Case Presentation I  
*Mary T. Donofrio, M.D., FAAP, FACC, FASE*

## SESSION 4

Fetal Ectopy and Tachyarrhythmias:  
Diagnosis & Management

*Elena Sinkovskaya, M.D., Ph.D.*

Hands on Scanning - Session II:  
Fetal Echocardiography: Evaluation of Cardiac  
Rhythm

*Elena Sinkovskaya, M.D., Ph.D.*

Panel Discussion 1

*Faculty*

## SESSION 5

Tips & Tricks of Fetal Echocardiography

*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Role of Fetal Cardiac Evaluation in Twin-Twin  
Transfusion Syndrome

*Anita J. Moon-Grady, M.D.*

Normal Cardiac Anatomy: The Outflow Tracts

*Lynn L. Simpson, M.D., FACOG*

Normal Cardiac Anatomy:

The Three Vessel Trachea View

*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Just Images & Movie Clips:

Do You Know the Diagnosis?

*Elena Sinkovskaya, M.D., Ph.D.*

## SESSION 6

Anomalies of the Great Vessels 1:

Tetralogy of Fallot

*Alfred Abuhamad, M.D.*

Anomalies of the Great Vessels 2:

Double Outlet Right Ventricle

*Anita J. Moon-Grady, M.D.*

Anomalies of the Great Vessels 3:

Transposition & Corrected Transposition of  
the Great Arteries

*Mary T. Donofrio, M.D., FAAP, FACC, FASE*

Anomalies of the Great Vessels 4:

Aortic Arch Abnormalities

*Jack Rychik, M.D.*

## SESSION 7

Hands-on Scanning - Session III:  
Fetal Echocardiography: Biometric  
Measurements & Pulsed Doppler

*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Anomalies of Pulmonary Veins

*Anita J. Moon-Grady, M.D.*

Anomalies of Systemic Veins

*Alfred Abuhamad, M.D.*

Prenatal Counseling after Detection of  
Congenital Heart Disease

*Jack Rychik, M.D.*

Case Presentation II

*Jack Rychik, M.D.*

## SESSION 8

Hands-on Scanning - Session IV:  
Fetal Echocardiography: Imaging in  
Early Gestation

*Alfred Abuhamad, M.D.*

Panel Discussion 2

*Faculty*

## SESSION 9

Introduction to the Fetal Heart Society

*Mary T. Donofrio, M.D., FAAP, FACC, FASE*

Current Tool for Assessment of  
Cardiac Function

*Elena Sinkovskaya, M.D., Ph.D.*

Cardiac Imaging in the First Trimester

*Alfred Abuhamad, M.D.*

Update on Sjogren's Antibodies & Fetal  
Heart Block

*Lynn L. Simpson, M.D., FACOG*

Just Images & Movie Clips:

Do You Know the Diagnosis?

*Elena Sinkovskaya, M.D., Ph.D.*

## SESSION 10

Pearls in Cardiac Imaging:  
Putting it All Together

*Alfred Abuhamad, M.D.*

Case Presentation III

*Elena Sinkovskaya, M.D., Ph.D.*

Panel Discussion 3

*Faculty*

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