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A CME Teaching Activity

# 2019 Fetal Echocardiography:

Normal and Abnormal Hearts

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**Designated for SA-CME**



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

Release Date: February 1, 2019

**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.

Educational Symposia designates this enduring material for a maximum of 17.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**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 January 31, 2022.**

This CME activity was planned and produced by Educational Symposia,  
a leader in continuing medical education since 1975.

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, 3D 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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*Professor and Chairman  
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Vice Dean for Clinical Affairs  
Eastern Virginia Medical School  
Norfolk, VA*

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## **Julia E. Solomon, MDCM, FACOG**

*Director, Fetal Diagnostic Center  
Physicians Group of Arizona  
Steward Healthcare  
Gilbert, AZ*

## **Wayne Tworetzky, M.D.**

*Director of Fetal Cardiology  
Boston Children's Hospital  
Associate Professor  
Harvard Medical School  
Boston, MA*

## **Session 1**

Optimizing Fetal Cardiac Imaging:

Gray Scale & Color

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

Normal Fetal Cardiac Anatomy:

The Cardiac Chambers

*Alfred Abuhamad, M.D.*

Screening for Congenital Heart Disease  
in the First & Second Trimesters of  
Pregnancy

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

Fetal Echocardiography:

Protocols & Tools

*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

*Julia E. Solomon, MDCM, FACOG*

Anomalies of the Cardiac

Chambers 3: Hypoplastic Left Heart

Syndrome & Critical Aortic Stenosis

*Wayne Tworetzky, M.D.*

Anomalies of the Cardiac Chambers 4:

Abnormal Right Ventricle (Tricuspid

Atresia, Ebstein Anomaly, Pulmonary

Atresia with Intact Septum)

*Michael D. Puchalski, M.D.*

## Session 3

Hands on Scanning Session I:  
Approach to Fetal Echocardiography  
*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Anomalies of the Cardiac Chambers 5:  
Single Ventricle-Type Congenital Heart  
Disease  
*Bettina F. Cuneo, M.D.*

Systemic Fetal Venous Malformations:  
A Standardized Approach to Diagnosis  
*Alfred Abuhamad, M.D.*

Fetal Ectopy and Tachyarrhythmias:  
Diagnosis & Management  
*Bettina F. Cuneo, M.D.*

Case Presentation I  
*Julia E. Solomon, MDCM, FACOG*

## Session 4

Hands on Scanning - Session II: Approach to  
the Evaluation of the Fetal Cardiac Rhythm  
*Elena Sinkovskaya, M.D., Ph.D.*

Normal Fetal Cardiac Anatomy;  
The Great Arteries & Venous Connections  
*Julia E. Solomon, MDCM, FACOG*

The Three Vessel Trachea View: Screening &  
Diagnosis of Congenital Heart Disease  
*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

Genetic Aspects of Congenital Heart Disease  
*Alfred Abuhamad, M.D.*

## Session 5

The Use of 3D/4D Ultrasound in  
Fetal Cardiac Imaging  
*Julia E. Solomon, M.D.C.M., FACOG*

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

Anomalies of the Great Vessels 1:  
Transposition of the Great Arteries  
*Wayne Tworetzky, M.D.*

Anomalies of the Great Vessels 2:  
Tetralogy of Fallot  
*Alfred Abuhamad, M.D.*

Anomalies of the Great Vessels 3:  
Aortic Arch Abnormalities  
*Julia E. Solomon, MDCM, FACOG*

## Session 6

Anomalies of the Great Vessels 4:  
Corrected Transposition of the Great Vessels  
*Elena Sinkovskaya, M.D., Ph.D.*

Panel Discussion -  
Question and Answer Session 1  
*Faculty*

Hands-on Scanning - Session III: Fetal  
Cardiac Imaging in Early Gestation  
*Alfred Abuhamad, M.D.*

Bradyarrhythmias and Long QT Syndrome  
*Bettina F. Cuneo, M.D.*

Anomalies of Pulmonary Venous Return  
*Michael D. Puchalski, M.D.*

Fetal Cardiac Interventions  
*Wayne Tworetzky, M.D.*

## Session 7

Case Presentation II  
*Elena Sinkovskaya, M.D., Ph.D.*

Hands-on Scanning - Session IV:  
Parameters of Fetal Cardiac Function  
*Julia E. Solomon, MDCM, FACOG*

Panel Discussion -  
Question and Answer Session 2  
*Faculty*

Cardiac Imaging in Early Gestation  
*Alfred Abuhamad, M.D.*

Update on Management of Pregnancies with  
Sjogren's Antibodies  
*Bettina F. Cuneo, M.D.*

Case Presentation III  
*Tracy L. Anton, BS, RDMS, RDCS, FAIUM*

## Session 8

Prenatal Evaluation of Cardiac Function  
*Elena Sinkovskaya, M.D., Ph.D.*

Heterotaxy Syndrome  
*Michael D. Puchalski, M.D.*

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

Putting it All Together: Fetal Cardiac Imaging  
Knowing What to Look For  
*Alfred Abuhamad, M.D.*

Panel Discussion -  
Question and Answer Session 3  
*Faculty*

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