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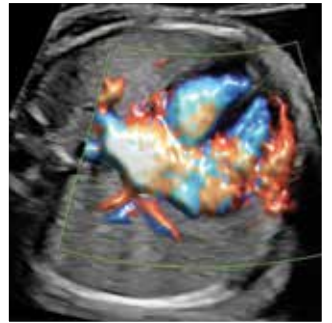
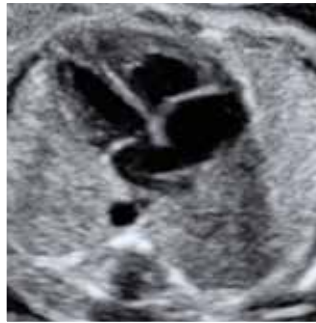
A CME Teaching Activity

# 2018 Fetal Echocardiography:

Normal and Abnormal Hearts

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**Designated for SA-CME**



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

Release Date: February 1, 2018

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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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**AMA PRA Category 1 Credit(s)<sup>TM</sup> for this activity may be claimed until January 31, 2021.**

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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*Director, Fetal Diagnostic Center  
Physicians Group of Arizona  
IASIS Healthcare  
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**Session 1**

The Four Chamber View:  
Normal Anatomy  
*Alfred Abuhamad, M.D.*

The Fetal Circulation and Shunts  
*Julia E. Solomon, MDCM, FACOG*

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

Atrioventricular Septal Defect:  
Diagnosis and Management  
*Elena Sinkovskaya, M.D., Ph.D.*

Do You Know the Answer?  
*Elena Sinkovskaya, M.D., Ph.D.*

**Session 2**

Hypoplastic Left Heart Syndrome  
*Jack Rychik, M.D.*

Tricuspid Valve Abnormalities:  
Dysplasia and Atresia  
*Bettina F. Cuneo, M.D.*

Ebstein's Anomaly  
*Norman H. Silverman, M.D., D Sc (Med), FACC,  
FASE, FAHA*

Congestive Heart Failure in the Fetus:  
Diagnosis and Prognosis  
*Elena Sinkovskaya, M.D., Ph.D.*

**Session 3**

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

Single Ventricle Anomalies: Prenatal  
Diagnosis and Prognosis  
*Jack Rychik, M.D.*

Fetal Myocardial Noncompaction  
*Norman H. Silverman, M.D., D Sc (Med), FACC,  
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Updates on Management of Pregnancy  
with Sjogren's Antibodies  
*Bettina F. Cuneo, M.D.*

Case Presentation I  
*Jack Rychik, M.D.*

## Session 4

Optimizing Fetal Cardiac Images:  
Gray Scale and Color Doppler  
*Tracy L. Anton, BS, RDMS, RDCS*

The Three Vessel Trachea View:  
Normal and Abnormal Hearts  
*Alfred Abuhamad, M.D.*

3D/4D Ultrasound in Fetal Echocardiography  
*Julia E. Solomon, MDCM, FACOG*

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

## Session 5

Fetal Isomerism: Clues to Prenatal Diagnosis  
*Norman H. Silverman, M.D., D Sc (Med), FACC, FASE, FAHA*

Tetralogy of Fallot and Double Outlet  
Right Ventricle  
*Bettina F. Cuneo, M.D.*

Do You Know the Answer?  
*Elena Sinkovskaya, M.D., Ph.D.*

Recognizing the Fetus with Transposition  
at Risk from a Restrictive Atrial Septum:  
Physiology and Rationale for Treatment  
*Norman H. Silverman, M.D., D Sc (Med), FACC, FASE, FAHA*

Corrected Transposition of the  
Great Arteries  
*Elena Sinkovskaya, M.D., Ph.D.*

## Session 6

Hands-on Scanning - Session II:  
The Fetal Echocardiogram - Grey Scale and  
Color Doppler  
*Tracy L. Anton, BS, RDMS, RDCS*

Coarctation of the Aorta and  
Other Arch Abnormalities  
*Elena Sinkovskaya, M.D., Ph.D.*

Approach to the Evaluation of the  
Systemic Venous System  
*Alfred Abuhamad, M.D.*

Total Anomalous Pulmonary Venous Return:  
Prenatal Diagnosis  
*Jack Rychik, M.D.*

## Session 7

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

Panel Discussion -  
Question and Answer Session:  
Fetal Ventricular Anomalies and Arrhythmias  
*Faculty*

Hands-on Scanning - Session III:  
The Use of Three and Four-Dimensional  
Ultrasound in Cardiac Imaging  
*Julia E. Solomon, MDCM, FACOG*

Panel Discussion -  
Question and Answer Session:  
Conotruncal and Venous Abnormalities  
*Faculty*

## Session 8

Standard Fetal Echocardiography:  
Protocols and Techniques  
*Tracy L. Anton, BS, RDMS, RDCS*

Evaluations of Extra Cardiac Anomalies  
Associated with Congenital Heart Disease  
*Julia E. Solomon, MDCM, FACOG*

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

Prenatal Counseling After Detection of  
Congenital Heart Disease: What to Say and  
How to Say It  
*Jack Rychik, M.D.*

## Session 9

Do You Know the Answer?  
*Alfred Abuhamad, M.D.*

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

Putting it All Together: Top Anatomic Regions  
in the Fetal Heart  
*Alfred Abuhamad, M.D.*

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