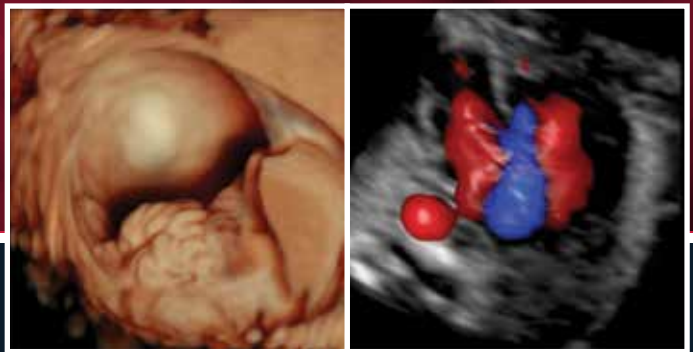


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A CME Teaching Activity

2016 FETAL ECHOCARDIOGRAPHY: Normal and Abnormal Hearts

Designated for SA-CME



16.5 AMA PRA Category 1 Credit(s)TM

Release Date: February 1, 2016

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About This CME Teaching Activity

This 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 course also provides 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 pass a written or online test with a minimum score of 70% 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)*TM
for this activity may be claimed until January 31, 2019.**

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.

Faculty

Alfred Abuhamad, M.D.

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Vice Dean for Clinical Affairs
Eastern Virginia Medical School
Norfolk, VA*

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*Director, Fetal Cardiology Education, Maternal Fetal
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Department of Obstetrics and Gynecology
Thomas Jefferson University
Philadelphia, PA*

Program

Session 1

Components of the Fetal Cardiac Screening and Fetal Echocardiography Examinations: How are They Different?

Dennis C. Wood, Jr., BA, RDMS, RDCS, RCPT

**Indications for Fetal Echocardiography:
New Updates**

Joshua A. Copel, M.D.

New Findings in Screening for Congenital Heart Disease in the First Trimester

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

**Normal Fetal Cardiac Anatomy:
The Cardiac Chambers**

Dennis C. Wood, Jr., BA, RDMS, RDCS, RCPT

Session 2

**Do You Know the Answer?
Multiple Choice Questions, Images and
Video Clips - Random Cases**

Alfred Abuhamad, M.D.

**Anomalies of the Cardiac Chambers 1:
Ventricular Septal Defects: Diagnosis,
Counseling and Management**

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

**Anomalies of the Cardiac Chambers 2:
Atrioventricular Septal Defects**

Bettina F. Cueno, M.D.

**Anomalies for the Cardiac Chambers 3:
Hypoplastic Left Heart Syndrome & Critical
Aortic Stenosis**

Jack Rychik, M.D.

**Anomalies of the Cardiac Chamber 4:
Abnormal Right Ventricle (Tricuspid Atresia,
Ebstein Anomaly, Pulmonary Atresia with Intact
Septum)**

Edgar Jaeggi, M.D., FRCP(C)

Session 3

**Hands-On Scanning - Session 1:
Tips for Cardiac Screening in Early Gestation**

Alfred Abuhamad, M.D.

**Fetal Ectopy and Tachyarrhythmia:
Diagnosis & Management**

Edgar Jaeggi, M.D., FRCP(C)

**Single Ventricle - Type of Congenital Heart
Disease; Prenatal Assessment, Management &
Prognosis**

Jack Rychik, M.D.

Bradyarrhythmias and Long QT Syndrome

Bettina F. Cueno, M.D.

Session 4

Case Presentation - Arrhythmias

Joshua A. Copel, M.D.

Hands-On Scanning - Session 2 Assessment of Cardiac Rhythm: M-Mode & Doppler

Bettina F. Cuneo, M.D.

Dennis C. Wood, Jr., BA, RDMS, RDCS, RCPT

Genetic Aspects of Congenital Heart Disease

Joshua A. Copel, M.D.

Differential Diagnosis of the Abnormal 3 Vessel Trachea View

Alfred Abuhamad, M.D.

Do You Know the Answer? Multiple Choice Questions, Images and Video Clips: First Trimester Screening

Alfred Abuhamad, M.D.

Session 5

Fetal Cardiac Anatomy: Outflow Tracts & 3 Vessel Trachea View

Alfred Abuhamad, M.D.

Segmental Approach to the Assessment of the Fetal Venous System

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

Fetal Cardiac Imaging in Early Gestation: What is Possible and How?

Alfred Abuhamad, M.D.

Do You Know the Answer? Multiple Choice Questions, Images and Video Clips: Genetic Syndromes and Heart Anomalies

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

Session 6

Anomalies of the Great Vessels 1: Transposition of the Great Vessels

Jack Rychik, M.D.

Anomalies of the Great Vessels 2: Tetralogy of Fallot, Double Outlet Right Ventricle and Truncus Arteriosus

Alfred Abuhamad, M.D.

Anomalies of the Great Vessels 3: Aortic Arch Anomalies

Edgar Jaeggi, M.D., FRCP(C)

Congenital Corrected Transposition of the Great Arteries

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

Session 7

Hands-On Scanning - Session 3:

Components for Fetal Echocardiography Doppler

Joshua A. Copel, M.D.

Dennis C. Wood, Jr., BA, RDMS, RDCS, RCPT

Fetal Cardiomyopathies

Edgar Jaeggi, M.D., FRCP(C)

Update on Management of Pregnancies with Sjogren's Antibodies

Bettina F. Cuneo, M.D.

Assessment of Cardiac Function: Existing Tools and Clinical Application

Alfred Abuhamad, M.D.

Session 8

Case Presentation - Cyanotic CHD

Dennis C. Wood, Jr., BA, RDMS, RDCS, RCPT

Hands-On Scanning - Session 4: Assessment of Cardiac Function: Doppler, Tissue Doppler and M-Mode

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

Prenatal Counseling after Detection of Congenital Heart Disease: What to Say and How to Say It

Jack Rychik, M.D.

Session 9

Impact of Antenatal Diagnosis of Cardiac Disease on Neonatal Outcome

Joshua A. Copel, M.D.

Heterotaxy Syndrome

Dennis C. Wood, Jr., BA, RDMS, RDCS, RCPT

Anomalous Pulmonary Venous Return: Clues to Diagnosis

Bettina F. Cuneo, M.D.

Case Presentation - Hypoplastic Left Heart Syndrome

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

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