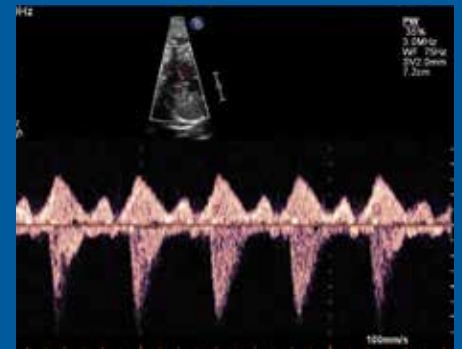
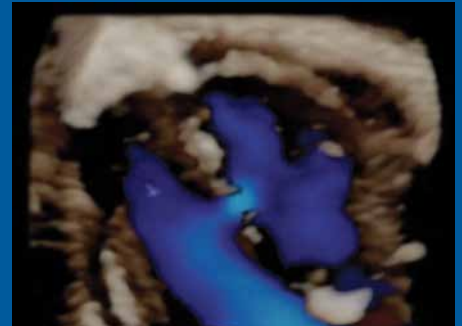
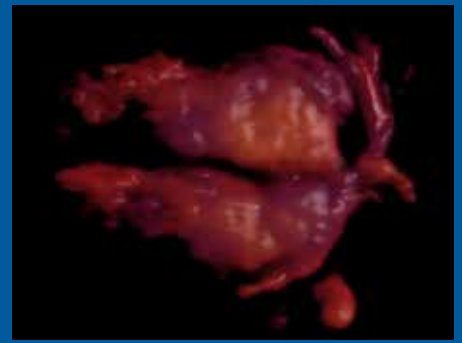




The Sixth Phoenix Fetal Cardiology Symposium

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April 14 through 18, 2015

The Ritz-Carlton
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Arizona Pediatric
CARDIOLOGY

The Sixth Phoenix Fetal Cardiology Symposium

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COURSE DESCRIPTION

To provide a comprehensive understanding of the uniqueness of the fetal cardiovascular system, its normal and abnormal development, physiology of fetal cardiac development and adaptation, echocardiographic imaging of the normal and abnormal fetal heart, morphologic diagnosis and manifestations of simple and complex fetal cardiac disorders, genetics of fetal cardiac disorders, diagnosis and therapy of fetal arrhythmias, history and impact of fetal cardiac intervention, extra-cardiac fetal abnormalities that are important to outcome of affected fetus, fetal and neonatal catheterization and surgical interventions, and management of the mother and family of the unborn child with heart disease. Additionally, for the upcoming symposium, we plan to add several additional innovative topics. There will be a session dedicated to several subjects of current controversy in fetal cardiology for which management is uncertain. There is also a half-day session devoted entirely to hands-on scanning of both normal and abnormal fetuses, with added instruction in 3-4D volume based echocardiography and data set manipulation. Finally, there are several sessions devoted to interesting case presentations as submitted by attendees, where challenging diagnoses, management and outcomes can be discussed amongst the faculty and experts.

The symposium is specifically designed to address key topics of current active research in the literature in regards to the evaluation and management of fetal congenital heart disease, with the individuals most well known in their field for their scientific contributions to these particular topics as the chosen speakers. This 4 ½-day conference will discuss basic important knowledge and recent advances in diagnosis and management of fetal cardiac disease. Lectures, procedure demonstrations, interactive case studies and break out hands-on learning and scanning sessions will focus on the expanding evidence-based care management strategies for clinical decision making. Speakers are nationally and internationally prominent experts, creating an authoritative learning venue for fetal cardiology and fetal cardiac imaging. Abstract submission is encouraged. Abstract presentations on innovative fetal cardiology research will occur throughout the conference.

WHO SHOULD ATTEND

Physicians, sonographers and nurses in the fields of Pediatric Cardiology, Fetal Echocardiography, Obstetrics and Maternal Fetal Medicine should attend. The information presented will also benefit those who care for neonates with cardiac disease or those who plan to embark on fetal ultrasonography as their career.

LEARNING OBJECTIVES

- Understand normal fetal cardiac anatomy and physiology relating to cardiac embryogenesis, as well as the physiologic developmental abnormalities that result in congenital heart disease, as assessed by multiple modalities including MRI.
- Teach a comprehensive, segmental approach in fetal cardiac echocardiographic imaging through both didactics and live case demonstrations with pregnant volunteers.
- Discuss the environmental influences on fetal cardiac development and vascular programming.
- Discuss the techniques of evaluating the fetal cardiac function and rhythm, as well as the treatment of various arrhythmias.
- Describe the echocardiographic and clinical manifestations of various specific simple and complex fetal cardiac anomalies, relate them to their natural and unnatural history, and present expectations in disease severity at the course of pregnancy and at birth; incorporate in discussion atrial and ventricular septation, endocardial cushion, ventricular inlet, chamber and outlet development, conotruncus, great arteries, cardiac position, ductus arteriosus, and myocardial disease
- Describe the rationale and technique for first trimester hemodynamic assessment and echocardiography
- Determine the abnormalities that can be diagnosed in the first trimester, along with identifying differences in outcome and fetal loss associated with early diagnosis.
- Describe the utility of new technologies including first trimester fetal cardiac echocardiography and 3D and 4D echocardiography and nuchal translucency evaluation.
- Describe fetal venous abnormalities- both systemic and pulmonary- as well as associated disorders and outcome.
- Enumerate new information on fetal cardiac genetics and teratology
- Promote new information in diagnosis and treatment of fetal arrhythmias – including non-invasive rhythm evaluation, diagnosis and treatment of fetal bradycardia, fetal long QT, heart block, ectopies and tachycardias.
- Discuss the current status and future of fetal cardiac intervention for both left and right heart disorders
- Promote understanding of the three vessel-tracheal view, along with how this view is diagnostic for various subtypes of congenital heart disease.
- Determine the cardiovascular issues associated with multiple gestations, specifically in regards to twin-twin transfusion syndrome and lesions that may affect only one twin.
- Discuss the pathology and presentation of vascular rings, along with outcome and management.
- Describe the assessment of extracardiac structural anatomy in a fetus with congenital heart disease.
- Describe the extra-cardiac Doppler assessment of the fetal arterial and venous systems to enhance both understanding of the physiology of congenital heart disease, as well as associated abnormalities such as growth restriction, anemia and placental insufficiency.

- Recognize various fetal cardiac disorders that may be encountered in one's practice and permit audience participation by their presentation of their own difficult to diagnose cases.
- Deliver "pearls" on the field of fetal cardiology and maternal fetal medicine.
- Recognize various types of fetal cardiomyopathies, along with etiologies, associated pathology and outcomes.
- Discuss the physiology of brain development in the fetus with congenital heart disease, as well as neurodevelopmental outcomes observed in survivors with CHD.
- Discuss the current guidelines for imaging in fetal echocardiography.
- Provide small group workshops for face-to-face learning in 4D Volume Echo manipulation, hands-on scanning to determining cardiac rhythm and function, fetal Doppler evaluation and fetal heart imaging.

COURSE CREDIT

Phoenix Children's Hospital is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide Continuing Medical Education for physicians.

Phoenix Children's Hospital designates this live activity for a maximum of *31.5 AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

DISCLOSURE POLICY STATEMENT

It is the policy of Phoenix Children's Hospital and the Office for Continuing Medical Education to insure balance, independence, objectivity, and scientific rigor in all of its sponsored or jointly sponsored educational programs. All faculty participating in programs sponsored or jointly sponsored by Phoenix Children's Hospital are expected to disclose to the program audience any real or apparent conflict(s) of interest related to the content of their presentation(s). The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by Phoenix Children's Hospital or its affiliates. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgment when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses. All Faculty disclosures will be listed in the printed Program and will be made in each presentation.



PROGRAM SCHEDULE			
TUESDAY APRIL 14		THE FETAL POSITION	
12:30 - 1 p.m.		Opening Remarks, Welcome <i>Robert Meyer and Brett McClain</i>	
1 - 1:30 p.m.		Normal Fetal Cardiac Anatomy <i>Diane Spicer, PA</i>	
1:30 - 2:15 p.m.		Unanswered Questions in Fetal Cardiovascular Physiology <i>Abe Rudolph, MD</i>	
2:15 - 3 p.m.		MRI Assessment of Fetal Cardiac Physiology <i>Mike Seed, MD</i>	
3 - 3:30 p.m.		BREAK	
3:30 - 4 p.m.		Cardiac Issues in Twin-Twin Transfusion Syndrome <i>Anita Moon-Grady, MD</i>	
4 - 4:30 p.m.		Live Scan <i>Julia Solomon, MD</i>	
4:30 - 5 p.m.		My Most Challenging Case- Presentation <i>TBD following case submission</i>	
WEDNESDAY APRIL 15		I'VE GOT RHYTHM...WHO COULD ASK FOR ANYTHING MORE	
7 - 7:50 a.m.		BREAKFAST	
7:50 - 8 a.m.		Announcements	
8 - 8:30 a.m.		Electrophysiology for Perinatal Cardiac Evaluation <i>Edgar Jaeggi, MD</i>	
8:30 - 9:15 a.m.		Bradycardias and Long QT Syndrome <i>Bettina Cuneo, MD</i>	
9:15 - 9:45 a.m.		Fetal Tachycardias <i>Edgar Jaeggi, MD</i>	
9:45 - 10 a.m.		Panel Discussion- Arrhythmias	
10 - 10:30 a.m.		BREAK	
10:30 - 11 a.m.		IN THE BEGINNING.... First Trimester Echocardiography and Doppler Assessment <i>Simcha Yagel, MD</i>	
11 - 11:30 a.m.		First Trimester Case Studies <i>Alfred Abuhamad, MD</i>	
11:30 a.m. - 12 p.m.		Non-Invasive Prenatal Testing – Pitfalls and Pearls <i>Julia Solomon, MD</i>	
12 - 1 p.m.		LUNCH	
1 - 1:30 p.m.		IT’S ALL ABOUT THE VEINS Extracardiac Venous Abnormalities <i>Simcha Yagel, MD</i>	
1:30 - 2:15 p.m.		Diagnosis and Outcomes of Heterotaxy Syndromes <i>Wayne Tworetzky, MD</i>	
2:15 - 2:45 p.m.		Abnormalities of Pulmonary Venous Return <i>Anita Moon-Grady, MD</i>	
2:45 - 3 p.m.		Panel Discussion	
3 - 3:30 p.m.		BREAK & ABSTRACT SESSION	
3:30 - 4 p.m.		Surgical Challenges of Patients with Heterotaxy <i>V. Mohan Reddy, MD</i>	
4 - 4:30 p.m.		Pathologic Assessment of Heterotaxy <i>Diane Spicer, PA</i>	
4:30 - 5 p.m.		My Most Challenging Case- Presentation <i>TBD- following case submission</i>	
THURSDAY APRIL 16		BANQUET RECEPTION & DINNER THE CHALLENGES OF FETAL SURGERY <i>V. Mohan Reddy MD</i>	
7 - 7:50 a.m.		BREAKFAST	
7:50 - 8 a.m.		Announcements	
8 - 8:30 a.m.		Double Outlet Right Ventricle <i>Norman Silverman, MD</i>	
8:30 - 9 a.m.		Transposition Abnormalities <i>Mary Donofrio, MD</i>	
9 - 9:30 a.m.		Tetralogy of Fallot- Variations on a Theme <i>Gary Satou, MD</i>	
9:30 - 10 a.m.		Common Arterial Trunk <i>Anita Moon-Grady, MD</i>	
10 - 10:30 a.m.		BREAK & ABSTRACT SESSION	
10:30 - 11 a.m.		Surgical Repair of Tetralogy of Fallot-MAPCA <i>V. Mohan Reddy, MD</i>	
11 - 11:30 a.m.		Extracardiac Evaluation of Conotruncal Abnormalities <i>Alfred Abuhamad, MD</i>	
11:30 a.m. - 12 p.m.		3-4D Fetal Echocardiography <i>Simcha Yagel, MD</i>	
12 - 1 p.m.		LUNCH	
1 - 1:30 p.m.		Vascular Rings and Coarctation <i>Helena Gardiner, MD</i>	
1:30 - 2 p.m.		The Genetics of Conotruncal Abnormalities <i>Karina Seidl, MS</i>	
2 - 2:30 p.m.		Live Scan- Conotruncal Abnormality <i>Christopher Lindblade, MD</i>	
2:30 - 3 p.m.		Panel Discussion- Conotruncal Abnormalities	
3 - 3:30 p.m.		BREAK & ABSTRACT SESSION	
3:30 - 4 p.m.		Pathology of Conotruncal Abnormalities <i>Diane Spicer, PA</i>	
4 - 4 :30 p.m.		The Fetal Ductus Arteriosus <i>Christopher Lindblade, MD</i>	
4:30 - 5 p.m.		My Most Challenging Conotruncal Case- Presentation <i>TBD- following case submission</i>	

FRIDAY APRIL 17	IT'S ONLY FOUR CHAMBERS - WHAT COULD GO WRONG?
7 - 7:50 a.m.	BREAKFAST
7:50 - 8 a.m.	Announcements
8 - 8:45 a.m.	Atrioventricular Septal Defects <i>Mary Donofrio, MD</i>
8:45 - 9:15 a.m.	Ebstein's Anomaly <i>Bettina Cuneo, MD</i>
9:15 - 10 a.m.	Hypoplastic Left Heart Syndrome & Aortic Stenosis <i>Wayne Tworetzky, MD</i>
10- 10:30 a.m.	BREAK & ABSTRACT SESSION
10:30 - 11 a.m.	Pulmonary Atresia-Intact Septum and Tricuspid Atresia <i>Gary Satou, MD</i>
11 - 11:20 a.m.	Left Heart Intervention <i>Wayne Tworetzky, MD</i>
11:20 - 11:40 a.m.	Right Heart Intervention <i>Helena Gardiner, MD</i>
11:40 a.m. - 12 p.m.	Panel Discussion- Fetal Cardiac Intervention
12 - 1 p.m.	LUNCH
1 - 3:30 p.m.	HANDS ON SCANNING WORKSHOPS
Room A	3-4D Scan, Acquisition and Data Manipulation <i>Abuhamad, , Solomon, Yagel</i>
Room B	2D Normal Fetal Echocardiogram <i>Gardiner, Satou, Seed</i>
Room C	Assessment of Rhythm, Function, Doppler <i>Cuneo, Jaeggi, Tworetzky</i>
Room D	2D Cardiac Pathology Live Scan <i>Donofrio, Lindblade, Stock, Svenson</i>

SATURDAY APRIL 18	GOING BEYOND STRUCTURAL CARDIAC ANOMALIES
7 - 7:50 a.m.	BREAKFAST
7:50 - 8 a.m.	Announcements
8 - 8:45 a.m.	Cardiovascular Physiology in the Developing Fetus & CHD <i>Abe Rudolph, MD</i>
8:45 - 9 a.m.	Audience Questions
9 - 9:30 a.m.	Environmental Influences on Cardiac Development and Vascular Programming <i>Helena Gardiner, MD</i>
9:30 - 10 a.m.	Fetal Extracardiac Doppler Assessment <i>Alfred Abuhamad, MD</i>
10 - 10:30 a.m.	BREAK
10:30 - 11 a.m.	Fetal Cardiomyopathies <i>Edgar Jaeggi, MD</i>
11 - 11:30 a.m.	The Three Vessel View <i>Julia Solomon, MD</i>
11:30 a.m. - 12 p.m.	MRI Evaluation of Fetal Congenital Heart Disease <i>Mike Seed, MD</i>

12 - 1 p.m.	LUNCH
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	CONTROVERSIES AND ESOTERICA IN FETAL CARDIAC DISEASE
1 - 1:30 p.m.	Fetal Heart Failure <i>Norman Silverman, MD</i>
1:30 - 1:50 p.m.	Use of Indomethacin as Treatment in Fetal Ebstein's Anomaly <i>Edgar Jaeggi, MD</i>
1:50 - 2:10 p.m.	Use of Nifedipine in Twin-Twin Transfusion Associated Cardiomyopathy <i>Bettina Cuneo, MD</i>
2:10 - 2:30 p.m.	Role of Cardiac Surgery in Neonates with Trisomy 13 or 18 <i>Daniel Velez, MD</i>
2:30 - 3 p.m.	Guidelines for Fetal Imaging <i>Mary Donofrio, MD</i>
3 - 3:30 p.m.	BREAK
3:30 - 4:15 p.m.	Neurodevelopmental Outcome in CHD <i>Mary Donofrio, MD</i>
4:15 - 5 p.m.	Physiology of Brain Development in the Fetus <i>Abe Rudolph, MD</i>
5 p.m.	Final Comments & Wrap Up

GUIDELINES FOR POSTER ABSTRACTS AND MOST CHALLENGING CASES

Poster abstracts depicting original research or clinical practice relevant to the study of fetal cardiology should be submitted per guidelines outlined on the Symposium website. Abstracts will be presented using Powerpoint slides (7 slides maximum). In addition, Posters will be displayed throughout the Symposium. Most Challenging Case presentations should highlight complex and challenging fetal cardiac pathophysiology. Presentations (10 slides maximum) should be under 10 minutes to allow for audience questions and response. All Poster Abstracts and Most Challenging Case presentations require review by the organizing committee prior to the Symposium for acceptance.

Deadline for submission is March 2, 2015.

REGISTRATION

	Before March 2	March 2 and After
Physicians/NPs/PAs	Early \$895	Late \$995
Nurses/Residents/Trainees	Early \$695	Late \$795
Technicians/Sonographers	Early \$695	Late \$795

Poster Abstract Submission Discount \$100

(deadline for submission is March 1)

Ritz-Carlton Reception/Dinner/Lecture \$90 per person \$100 per person

(guest of registrant may purchase additional ticket)

Registration fee includes: symposium, noted meals, program materials, and continuing education credits. Registration is limited. On-site registration will be available as seating permits.

Online registration is available at www.fetalcardio.com

For registration by telephone or other requests, contact Symposium Coordinator Kathryn Poole at kpoole@phoenixchildrens.com or (602) 933-2318

Refund Policy

All cancellations must be in writing. Refunds, less a 20 percent administrative charge, will be given until March 1, 2015. After March 1, 2015, no refunds will be issued. Phoenix Children's Hospital reserves the right to cancel or change any program for due causes. Cancellation of a program by Phoenix Children's Hospital will result in a full tuition refund. Phoenix Children's Hospital is not responsible for the refund of travel or hotel expenses under any circumstance.

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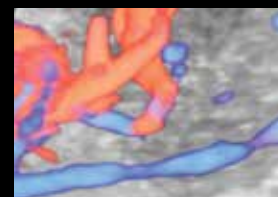


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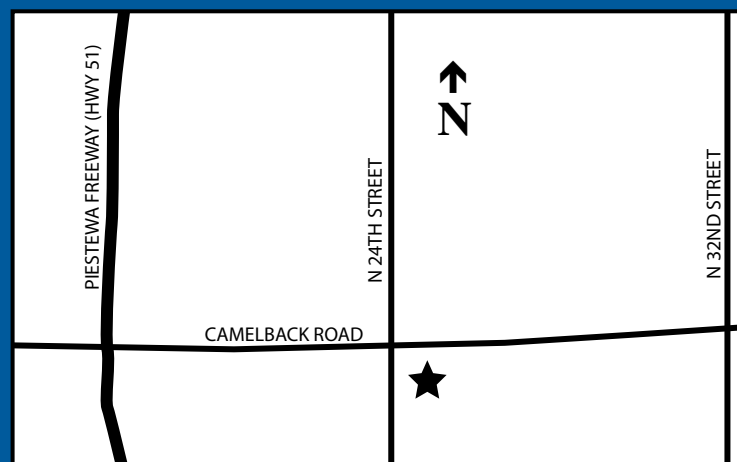
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By Telephone:

Call (800) 542-8680 and reference the PCH Fetal Cardiology and the event date.

Online:

- Visit www.ritzcarlton.com/en/Properties/Phoenix/Default.htm.
- Complete arrival and departure dates, number of rooms, and guests per room on the right side of the screen
- Click on "Group/Promo Codes" to reveal additional fields
In the "Group Code" Field:
 - Enter PCHPCHA for a Deluxe Room - \$199.00 + 12.27% Lodging Tax (Deluxe Room features one king bed or two double beds)
- Click Submit



For off site hotel accommodations or for any other questions contact Symposium Coordinator Kathryn Poole at kpoole@phoenixchildrens.com or (602) 933-2318