THE UNIVERSITY OF VIRGINIA CHILDREN'S HOSPITAL IN PARTNERSHIP WITH
CHILDREN'S HOSPITAL OF THE KING'S DAUGHTERS
PRESENTS THE

VIRGINIA FETAL CARDIOLOGY SYMPOSIUM
FROM DIAGNOSIS TO DELIVERY

May 18-19, 2018

Hilton Richmond Hotel & Spa/Short Pump - Richmond, VA

University of Virginia Children's Hospital | Children's Hospital of The King's Daughters

PROVIDED BY
OFFICE OF CONTINUING MEDICAL EDUCATION
UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE

PROGRAM DESCRIPTION

This symposium focuses on improving congenital heart disease detection rates in obstetrics and maternal fetal medicine offices through improved fetal cardiac screening processes. Sessions include fetal echocardiography basics in addition to evaluation of perinatal conditions known to affect the fetal heart including twin-to-twin transfusion syndrome, maternal diabetes, teratogens and connective tissue disorders. Special consideration will also be given to topics on various advanced fetal interventions, comprehensive genetic screening and issues surrounding family counseling and delivery. The afternoon portion of the main conference will have breakout sessions allowing attendees to choose to join a series of topics on Fetal Echocardiography and/or a series of topics on Maternal Fetal Medicine.

TARGET AUDIENCE

Physicians[1], Physician Assistants[1], Sonographers[1], Cardiovascular Technicians[1], Nurse Practitioners[2], Registered Nurses[2], and Genetic Counselors[3]

[1]May claim ***AMA PRA Category 1™*** credit [2]May claim ANCC contact hours

[3]May claim Hours of Participation

EDUCATIONAL OBJECTIVES

By the end of this activity, attendees should be able to:

1. State the purpose of the basic fetal shunts and cardiac connections and how they transition at the time of birth
2. Differentiate between evidence-based reasons to perform fetal echocardiography and conditions that do not warrant comprehensive fetal heart evaluation
3. List the standard fetal echocardiographic views and how the comprehensive exam is performed
4. Plan how early genetic and cardiac screening can increase rates of prenatal diagnosis and how these screens can be appropriately applied to standard first trimester evaluation
5. Generalize the approach and evidence for recommending chromosomal testing when a fetal cardiac disease is diagnosed
6. Generalize the approach and evidence for recommending focused genetic testing when a known family history of an inherited cardiac condition exists
7. Classify the levels of severity for Twin-to-Twin transfusion syndrome and how those levels affect decision for fetal intervention
8. Examine how known twin-to-twin transfusion syndrome affects both twin's cardiovascular system including implications for perinatal outcomes
9. Differentiate between all of the causes of fetal cardiomegaly and criteria that are used to accurately classify it
10. Identify when the patient with fetal hypoplastic left heart syndrome becomes higher risk and what echocardiographic findings suggest a chance in delivery planning and prognosis
11. Define the basic right heart obstructive lesions including pulmonary atresia and pulmonary stenosis and how they are diagnosed on fetal echocardiography
12. Illustrate how malformation of the placenta and umbilical arteries are associated with a physiologic effect on the heart as well as congenital heart lesions
13. State the basic echocardiographic findings of left heart obstructive disease including aortic stenosis, coarctation and hypoplastic left heart syndrome

14. Compare the effects of gestational diabetes and pre-pregnancy maternal diabetes on the developing heart and the function of the heart at time of delivery
15. Summarize the major conotruncal defects including Tetralogy of Fallot, Transposition of the great arteries and, and truncus arteriosus and explore how they are diagnosed in utero
16. List the common maternal teratogens that have known associations with congenital heart disease and how to minimize their effect and exposure
17. Apply basic m-mode and fetal Doppler assessment to identify and risk stratify fetal arrhythmia
18. Examine the different genetic syndromes that are associated with congenital heart disease and how their diagnoses are suggested by ultrasound
19. Discriminate between the positives and negatives of engaging in social media while counselling patients with known fetal cardiac disease
20. List the major hemodynamic issues surrounding women with congenital heart disease who become pregnant and how those issues can risk stratify them during their whole course
21. Critique the use of hyperoxygenation in assessing pulmonary blood flow in patients at risk for diminished states at the time of birth
22. Evaluate how intervention on the developing fetal heart affects outcomes post-natally and where the evidence exists in supporting continued development of these techniques
23. Summarize the many different ways that parents seek out information about congenital heart programs and discriminate between reputable reporting systems and data that comes internally from individual programs
24. Examine the issues surrounding labor and delivery management for pregnancies complicated by fetal cardiac disease
25. Examine the issues surrounding the immediate post-natal period for infants with known or suspected fetal cardiac disease
26. Illustrate how various neurodevelopmental tools can be utilized to describe outcomes for patients who were diagnosed prenatally with cardiac disease in contrast to those with postnatal diagnoses

FACULTY

CHILDREN'S HOSPITALOF THE KING'S DAUGHTERS SPEAKERS

Robert B. Escalera, II, MD
Pediatric Cardiologist
Department of Pediatrics

Jonathan T. Fleenor, MD*
Pediatric Cardiologist
Department of Pediatrics

INVITED SPEAKERS

Helena M. Gardiner, MD, PhD
Professor of Obstetrics and Gynecology
Texas Medical Center, Houston, Texas

Alfred Z. Abuhamad, MD
Professor of Obstetrics and Gynecology
Eastern Virginia Medical School, Norfolk,VA

Michael E. Cunningham, MD, FAAP
Assistant Professor, Pediatric Cardiology
Naval Medical Center, Portsmouth, VA

Christopher S. Ennen, MD
Division Director, Maternal Fetal Medicine
Naval Medical Center, Portsmouth, VA

Jena L. Miller, MD
Assistant Professor, Obstetrics and Gynecology
Johns Hopkins Medical Center, Baltimore, MD

UNIVERSITY OF VIRGINIA SPEAKERS

Annelee C. Boyle, MD *
Assistant Professor
Department of Obstetrics and Gynecology

Christian A. Chisholm, MD
Associate Professor
Department of Obstetrics and Gynecology

Peter N. Dean, MD*
Assistant Professor
Department of Pediatrics

Donald J. Dudley, MD
Professor
Department of Obstetrics and Gynecology

James J. Gangemi, MD
Associate Professor
Department of Surgery

Logan B. Karns, MS
Genetic Counselor
Department of Obstetrics and Gynecology

Leslie S. Peregoy, PNP*
(Nursing Content Expert) Nurse Practitioner , Children's Heart Center

Christine H. Saunders, MHA, RDCS, RDMS* Sonographer, Technical Director
Pediatric Echocardiography Lab

Daniel S. Schneider, MD*
Associate Professor
Department of Pediatrics

Matthew J. Thomas ScM, LCGC*
Genetic Counselor
Department of Pediatrics

Brooke D. Vergales, MD*
Assistant Professor
Department of Pediatrics

Jeffrey E. Vergales, MD, MS* (Director)
Assistant Professor
Department of Pediatrics

OTHER COMMITTEE MEMBERS

G. Thomas Albrecht, Jr., MD*
Clinical Instructor
University of Virginia Department of Pediatrics

Kathryn B. Reid, PhD, RN, FNP-C*
(Nurse Planner) Associate Professor
University of Virginia School of Nursing

Eva C. Casola, MBA*
Program Manager
University of Virginia Continuing Medical Education

* Planning Committee

AGENDA

FRIDAY, MAY 18, 2018

8:00-9:15	BREAKFAST, REGISTRATION AND EXHIBITS
9:15-9:25	**Welcome and Overview** Jeffrey E. Vergales, MD, MS
9:25-9:50	**Fetal Cardiac Physiology: The Base of it All** Jeffrey E. Vergales, MD, MS
9:50-10:15	**Indications and Appropriate Use of Fetal Echocardiography** Peter N. Dean, MD
10:15-10:40	**The Normal Fetal Echocardiogram** Christine H. Saunders, MHA, RDCS, RDMS
10:40-11:00	BREAK AND EXHIBITS
11:00-11:25	**First Trimester Genetic & Cardiovascular Screening** Alfred Z. Abuhamad, MD
11:25-11:45	**Genetics: Screening for Aneuploidy When Cardiac Disease is Diagnosed** Logan B. Karns, MS
11:45-12:05	**Genetics: Screening for CHD When a Family History Exists** Matthew J. Thomas, ScM, LCGC
12:05-1:15	LUNCH (provided) & EXHIBITS
1:15-1:40	**Twin-to-Twin Transfusion Diagnosis and Treatment** Jena L. Miller, MD
1:40-2:05	**Twin-to-Twin Transfusion and Effects on the Cardiovascular System** Helena M. Gardiner, MD, PhD
2:05-2:30	**Fetal Cardiomegaly: Criteria and Causes** Daniel S. Schneider, MD
2:30-2:55	**Hypoplastic Left Heart Syndrome:** **When High Risk becomes Higher Risk** Alfred Z. Abuhamad, MD
2:55-3:15	BREAK AND EXHIBITS

Breakout Sessions

3:15-3:40	• **Fetal Echocardiography 1: Right Heart Lesions** Robert B. Escalera, II, MD
or	• **Maternal Fetal Medicine 1: Placental and Umbilical Malformations** Jena L. Miller, MD
3:40-4:05	• **Fetal Echocardiography 2: Left Heart Lesions** Daniel S. Schneider, MD
or	• **Maternal Fetal Medicine 2: Diabetes** Christopher S. Ennen, MD
4:05-4:30	• **Fetal Echocardiography 3: Conotruncal Lesions** Michael E. Cunningham, MD
or	• **Maternal Fetal Medicine 3: Teratogens** Christian A. Chisholm, MD
4:30-5:00	• **Fetal Echocardiography 4: Arrhythmias** Jonathan T. Fleenor, MD
or	• **Maternal Fetal Medicine 4: Genetic Syndromes Associated with CHD** Christopher S. Ennen, MD

SATURDAY, MAY 19, 2018

7:30-8:15	BREAKFAST AND EXHIBITS
8:15-8:40	**Social Media and Fetal Counselling** Leslie S. Peregoy, PNP
8:40-9:05	**Caring for the Pregnant Mother with Congenital Heart Disease** Donald J. Dudley, MD
9:05-9:30	**Maternal Hyperoxygenation as a Diagnostic Tool** Peter N. Dean, MD
9:30-9:55	**Fetal Cardiac Interventions: Risks vs. Rewards** Helena M. Gardiner, MD, PhD
9:55-10:15	BREAK AND EXHIBITS
10:15-10:40	**Importance of Transparency to Expectant Parents in Congenital Heart Programs** James J. Gangemi, MD
10:40-11:05	**Delivering the Baby with CHD: The Obstetrician Perspective** Donald J. Dudley, MD
11:05-11:30	**Delivering the Baby with CHD: The Neonatologist Perspective** Brooke D. Vergales, MD
11:30-11:55	**Neurodevelopmental Outcomes in Infants with Prenatally Diagnosed CHD** Helena M. Gardiner, MD, PhD
11:55-12:45	**Wrap Up, Announcements, Adjourn to Exhibits**

REGISTRATION

Registration is available at www.cmevillage.com and is limited to 100 attendees. On the website click the "Conferences & Symposia" button, then scroll to the Fetal Cardiology Symposium to see a button for registration and a downloadable PDF brochure. For logistical purposes, you will be asked to select your preference of breakout sessions during registration. Fees for this conference include free parking and Wi-Fi, an online syllabus, conference handout, lectures, breakout sessions, breakfast, lunch, morning and afternoon breaks.

REGISTRATION FEES	through midnight 4/17/18	4/18/18 through midnight 5/10/18	Walk-in registration 5/11/18 & Later
Physicians:	$300	$400	$500
Other Healthcare Professionals:	$250	$350	$400
Students, Residents/Fellows:	$35	$50	$75

Registration will close midnight May 10, 2018. All registrations after that date will be considered walk-in registrations and will be charged at the higher price.

CONFIRMATION & CANCELLATION POLICY

Upon receipt of registration AND payment, you will receive an email confirmation. *Please keep this confirmation for your records.*

Registration fees will be refunded (less a $50 administrative fee) for written cancellations (emails to uvacme@virginia.edu are acceptable) received a minimum of 14 days prior to the activity date. No refunds will be granted for registration fees of less than $50 or for cancellations made within 13 days of the activity.

The University of Virginia School of Medicine reserves the right to cancel CME activities, if necessary. In this case, the entire registration fee will be refunded. All other expenses incurred in conjunction with this CME activity are the sole responsibility of the participant.

ACCREDITATION AND DESIGNATION STATEMENT

The University of Virginia School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The University of Virginia School of Medicine designates this live activity for a maximum of ***9.25 AMA PRA Category 1 Credits™***. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The University of Virginia School of Medicine awards **9.25 hours of participation** (equivalent to ***AMA PRA Category 1 Credits™***) to each non-physician participant who successfully completes this educational activity. The University of Virginia School of Medicine maintains a record of participation for six (6) years.

The University of Virginia School of Nursing Continuing Education is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

The **University of Virginia SONCE awards 9.25 contact hours** for nurses who participate in this educational activity and complete the post activity evaluation.

Successful completion of this CME activity, which includes participation in the activity, with individual assessments of the participant and feedback to the participant, enables the participant to earn **9.00 MOC points in the American Board of Pediatrics' (ABP) Maintenance of Certification (MOC) program.** It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit."

LOCATION

The Virginia Fetal Cardiology Symposium will be held at the Hilton Richmond Hotel & SPA / Short Pump, 12042 West Broad Street, Richmond, VA, https://tinyurl.com/HiltonInnatRichmondShortPump which is located at the Short Pump Town Center, an open air shopping mall with many restaurants, retail stores and a movie theater. The Hilton has easy access to US Route 64 and downtown Richmond. For more information and to plan before/after meeting activities, visit www.visitrichmondva.com.

LODGING

A block of rooms has been reserved for Virginia Fetal Cardiology Symposium course participants at the meeting site, Richmond Hotel & SPA/Short Pump, at the rate of $93.00 per room, per night and are subject to applicable state and local taxes, (currently 13.3%), or prevailing fees in effect at the time of check in. The maximum occupancy is 4 individuals per room. The rate quoted is at the 2018 per diem rate. To reserve your accommodation book online at https://tinyurl.com/VFCS2018 or call 804-364-3600 and identify yourself as a participant in the "Virginia Fetal Cardiology Symposium". Reservations must be made on or before 5:00 pm, Thursday, April 26, 2018 to ensure the conference preferred rate. Any reservations made after that date will be made on a space and rate available basis only. All reservations must be accompanied by a first night room deposit or guaranteed with a major credit card. Reservation cancellations must be received at least 72 Hours prior to arrival to avoid being charged one night's room and tax.

SPECIAL NEEDS

Please email the CME Office (uvacme@virginia.edu) with special needs or to update your profile.

CONTACT INFORMATION

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