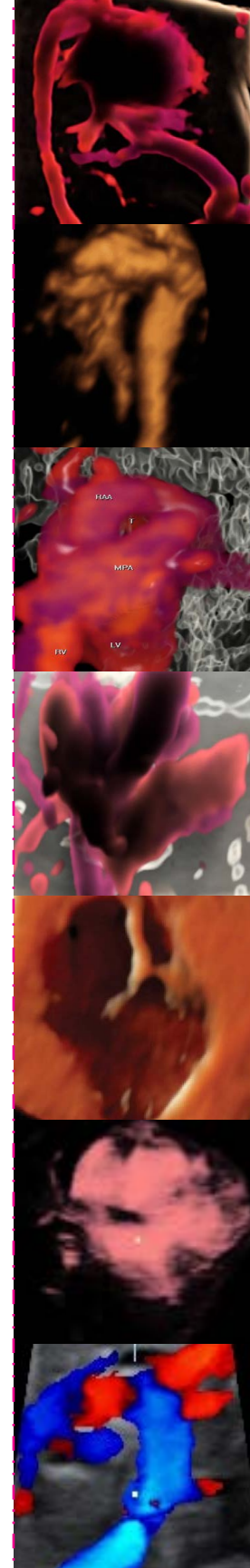




655 West Baltimore Street
Room 14-012 BRB
Baltimore, MD 21201

the fetal heart
April 25-27, 2019

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Sponsored by the
University of Maryland School of Medicine

University of Maryland, Baltimore
SMC Campus Center
Baltimore, MD

**April 25-27
2019**

INTERNATIONAL SYMPOSIUM
& HANDS-ON LEARNING

the fetal heart

Course Description:

The 2019 Symposium and Hands-On Learning event in Baltimore, MD, once again brings together an internationally recognized, multidisciplinary faculty to present two full-days of state-of-the-art presentations and discussions. The half-day event will feature live imaging demonstrations, thus maximizing the didactic and hands-on learning experience. This Symposium will provide clear, concise real-life tips and information about fetal cardiac defects and screening examinations. Evidence-based information will be used to explain important diagnostic and screening modalities for predicting defect risks. Presentations will discuss topics on fetal cardiac evaluation in the NIPT era; fetal cardiac evaluation in the second trimester; cardiac defects and extra cardiac anomalies, and common problems that may occur during the pregnancy. The most common neonatal postoperative complications will be discussed.

Target Audience:

The Symposium and Hands-On Learning experience will target all healthcare professionals who want to improve their ability to scan and evaluate the fetal heart. Maternal fetal medicine specialists, obstetricians, pediatric cardiologists, diagnostic radiologists, sonographers, genetic counselors, and all other healthcare professionals who provide care for patients with congenital heart disease will benefit from this Symposium.

Learning Objectives:

- Demonstrate improved practice strategies of congenital heart disease with interactive case presentations
- Define the advancements in imaging technology
- Describe the latest advances in screening, diagnosing and treatment of congenital heart diseases.
- Describe the most associated extra cardiac anomalies along with heart defects
- Demonstrate competence in the diagnosis and management of fetal cardiac abnormalities.



Program Schedule

Thursday, April 25, 2019

7:30-8:00 Registration & Breakfast

MORNING SESSION:

FETAL CARDIAC EVALUATION in NIPT ERA

Moderators: Chris Harman, MD, Geoffrey Rosenthal, MD

8:00-8:20 Should We Turn the Heart Evaluation Pyramid Upside Down?
Shifa Turan, MD, RDMS

8:20-8:50 Normal Heart at 11-13 weeks: Protocol and common techniques for scanning
Fred Ushakov, MD

8:50-9:10 Fetal Heart Evaluation in the Context of Normal First Trimester Screening Results
Fred Ushakov, MD

9:10-9:30 Fetal Heart Evaluation in the Context of Abnormal First Trimester Screening Results
Fred Ushakov, MD

9:30-10:15 Abnormal Heart at 11-13 weeks
Case presentations

- AVSD
- HPLH
- DORV
- TGA
- TOF
- CoA
- Truncus
- Ebstein's anomaly
- Arrhythmia

Fred Ushakov, MD

10:15-10:35 The Utility of Noninvasive Prenatal Testing in the Evaluation of Congenital Heart Defects
Elizabeth Cutting Coale, MGC, CGC

10:35-10:45 **Q&A & Coffee Break**

10:45 -11:00 Challenges of Early Heart Evaluation
Fred Ushakov, MD

11:00-11:15 Another challenge! Obesity & Early Fetal Heart Evaluation
Shifa Turan, MD, RDMS

11:15 -11:35 First Trimester Heart Evaluation: Can we make it easier?
Shifa Turan, MD, RDMS

11:35 -12:00 12 and 20 weeks: Two Stage Screening Protocol for CHD Detection
Fred Ushakov, MD

12:00-1:00 **Lunch**

AFTERNOON SESSION:

FETAL CARDIAC EVALUATION in SECOND TRIMESTER

Moderator: Alicia Chaves, MD, Shifa Turan, MD, RDMS

1:00-1:30 Normal Fetal Cardiac Evaluation in Second Trimester
Fred Ushakov, MD

1:30-2:00 Abnormal Four Chamber View
Fred Ushakov, MD

2:00-2:30 Abnormal Great Vessel & Abnormal Three Vessel Trachea View
Fred Ushakov, MD

2:30-3:15 The most common Anomalies of the Heart - Review topics with case presentations
Fred Ushakov, MD

- Atrioventricular septal defect (AVSD)
- Ventricular septal defects (VSD)
- Hypoplastic left heart syndrome (HLHS)

3:15-3:30 **Q&A & Coffee Break**

3:30-4:00 What about Conotruncal Anomalies? How to make a differential diagnosis?
Dario Paladini, MD

4:00-4:30 Aortic Arch Branching Abnormalities
Dario Paladini, MD

4:30-5:15 Fetal Arrhythmia
Sudhir Vashist, MD
-Tachycardia – Types of SVT and How to Make a Differential Diagnosis?
- Bradycardia

5:15-5:30 Case Presentations for Fetal Arrhythmia
Alicia Chaves, MD

5:30-5:40 Questions and discussion

6:00-8:00 **Welcome Reception at UMB, SMC Campus Center**

Friday, April 26, 2019

7:30-8:00 Registration & Breakfast

MORNING SESSION:

CARDIAC DEFECTS AND EXTRA-CARDIAC ANOMALIES

Moderators: Ozhan Turan, MD, PhD, Nicholas Pietris, MD

8:00-8:45 Scanning the Heart in Extra-Cardiac Fetal Anomalies:
Fred Ushakov, MD

- Vein of Galen
- Diaphragmatic hernia
- Echogenic lung lesions
- CHAOS
- Major abdominal wall defects
- Skeletal dysplasia
- End stage fetal renal disease

8:45-9:15 Trans-vaginal Neurosonography Must be Part of Level II Examination in Fetuses with CHD
Dario Paladini, MD

9:15-9:30 The role of genetic evaluation in fetuses with congenital heart disease and brain anomalies
Patrick Semesky, MGC, CGC

9:30-10:00 Experts’ Opinions and Prenatal Counseling for Neurodevelopment Delay in Isolated CHD: Mind the Gap
Dario Paladini, MD

10:00-10:15 Q&A & Coffee Break

10:15-10:55 Cardiac Defects in Multiple Pregnancies: Case presentation & Challenges in Management
Ozhan Turan, MD, PhD

10:55-11:35 Cardiac Defects in Diabetic Mothers: Case Presentations & Challenges in Management
Shifa Turan, MD, RDMS & Sarah Crimmins, DO

11:35-12:15 Cardiac Defects in Autoimmune Maternal Diseases: Case Presentations & Challenges in Management
Nicholas Pietris, MD & Katherine Goetzinger, MD, MSCI

12:15-12:25 Questions & Answers

12:25-1:30 Lunch

AFTERNOON SESSION: MATERNAL DISEASES AND CONGENITAL HEART DEFECTS
Moderators: Sarah Crimmins, DO, Deneen Heath, MD

1:30-2:00 Adult Congenital Heart Diseases: The Role of 3D Printing in Diagnosis & Importance of Identifying Mothers
Stacy Fisher, MD

2:00-2:30 Delivery Management of Severe Congenital Heart Defects
Ozhan Turan, MD, PhD

2:30-3:00 Surgical Outcomes in common congenital Heart Defects – Maryland Experience
Sunjay Kaushal, MD, PhD

3:00-3:45 The Feeding Problems in neonates after the Cardiac Surgery – How to guide the parents?
Alicia Chaves, MD

3:45-4:00 Q&A & Coffee Break

4:00-4:15 Having a Child With a Major Congenital Heart Defect -Parent View

4:15-4:30 Importance of Multidisciplinary Management in Fetal Heart Program
Kim Greve, BSN, RNC

4:30-4:45 Q & A

Saturday, April 27, 2019

8:00-8:30 Breakfast at UM Center for Advanced Fetal Care

8:30 a.m.-12:00 Hands-on Learning Session at Center for Advanced Fetal Care
Shifa Turan, MD, RDMS

Small groups focusing on scanning the fetal heart under the supervision of experienced faculty. Participants will become familiar with the following:

- Identifying Situs
- Obtain the 4-chamber View
- Demonstrate Pulmonary Venous Flow
- Obtain the Right and Left Ventricular Arterial Outflow Tracts Views
- Obtain the 3-vessel View
- Obtain the Arch Views
- Application of 4D STIC Fetal Echocardiography
- Learn to assess CHD

Faculty

Invited Faculty

Dario Paladini, MD
Director, Fetal Medicine and Surgery Unit
Gaslini Children’s Hospital, Genoa, Italy

Fred Ushakov, MD
Founder of the London School of Ultrasound
Specialist in Fetal Medicine
University College of London Hospitals, London, UK

Local Faculty

Christopher Harman, MD
Sylvan Frieman, MD Endowed Professor in Obstetrics, Gynecology and Reproductive Sciences
Chairman, Department of Obstetrics, Gynecology and Reproductive Sciences
University of Maryland School of Medicine

Shifa Turan, MD, RDMS
Associate Professor
Department of Obstetrics, Gynecology and Reproductive Sciences
Director, Fetal Heart Program
University of Maryland School of Medicine

Ozhan Turan, MD, PhD
Associate Professor
Director, Fetal Therapy and Complex Obstetric Surgery
Department of Obstetrics Gynecology and Reproductive Sciences
University of Maryland School of Medicine

Alicia Chaves, MD
Assistant Professor
Department of Pediatrics
University of Maryland School of Medicine

Sarah D. Crimmins, DO
Assistant Professor
Director of Labor and Delivery
Department of Obstetrics Gynecology and Reproductive Sciences
University of Maryland School of Medicine

Stacy Fisher, MD
Associate Professor
Director, Women’s and Complex Heart Diseases
Department of Medicine
University of Maryland School of Medicine

Katherine R. Goetzinger, MD, MSCI
Assistant Professor
Director, Perinatal Outreach
Department of Obstetrics Gynecology and Reproductive Sciences
University of Maryland School of Medicine

Deneen Heath, MD
Assistant Professor
Department of Pediatrics
University of Maryland School of Medicine

Sunjay Kaushal, MD, PhD
Associate Professor
Department of Surgery
Director, Pediatric and Adult Congenital Cardiac Surgery
Co- Director, Children’s Heart Program
University of Maryland School of Medicine

Nicholas Peter Pietris, MD
Assistant Professor
Department of Pediatrics
University of Maryland School of Medicine

Geoffrey Rosenthal, MD, PhD
Professor
Department of Pediatrics
Division Head and Director
Children’s Heart Program
University of Maryland School of Medicine

Sudhir Vashist, MBBS, MD
Assistant Professor
Department of Pediatrics
University of Maryland School of Medicine

Elizabeth Cutting Coale, MGC, CGC
Instructor
Prenatal Genetic Counselor Center for Advanced Fetal Care

Department of Obstetrics Gynecology and Reproductive Sciences
University of Maryland School of Medicine

Kim Greve, BSN, RNC
Fetal Heart Program Nurse Coordinator
Center for Advanced Fetal Care
University of Maryland Medical Center

Patrick Semesky, MGC, CGC
Instructor
Prenatal Genetic Counselor
Center for Advanced Fetal Care
Department of Obstetrics Gynecology and Reproductive Sciences
University of Maryland School of Medicine

Accreditation

The University of Maryland School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation

The University of Maryland School of Medicine designates this live activity for a maximum of 18.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Faculty Disclosure

It is the policy of the University of Maryland School of Medicine to ensure balance, independence, objectivity and scientific rigor in all of its educational activities. In accordance with this policy, all persons in a position to control the educational content of this activity must disclose any relevant financial relationships they have with commercial interests. Any identified conflicts of interest must be resolved prior to the speaker’s presentation.

ADA Statement

If you require special accommodations to attend or participate in this CME activity, please provide information about your requirements to Althea Pusateri, Academic Coordinator (410) 706-3957 or (1-800-735-2258) TTY Voice at least 2 weeks in advance of the activity.

Online Registration Information

Please register online at:
<https://umaryland.cloud-cme.com/default.aspx?P=5&EID=5863&formid=90#>

The registration fee includes the cost of instructional materials, lunches, breaks and the reception. This fee does not include the Saturday Workshop.

Registration Fees:

- Early Bird (by March 25, 2019)
- \$475 (Physicians)
 - \$325 (Other Healthcare Professionals - includes residents/ fellows)

Please see Website for details on One Day rates.

- After March 25,2019
- \$525 (Physicians)
 - \$375 (Other Healthcare Professionals)

Saturday Workshop:

There is an additional fee of \$125.00 for the Workshop on Saturday. Please make sure you check the box for the Workshop when registering and pay the additional fee if you would like to attend. Space is limited (first-come, first-served).

For further information:

Althea Pusateri, Program Coordinator
Office of Faculty Affairs and Professional Development
University of Maryland School of Medicine
655 W. Baltimore Street
Baltimore, MD 21201

Phone: 410-706-3957
Email: apusateri@som.umaryland.edu

Social Event

Reception
SMC Campus Center, Baltimore, Maryland
(same location as Symposium)
Thursday- April 25, 2019
6:00-8.00pm

All attendees and faculty are invited to attend. Please indicate if you will be attending this function when registering online.

Location

University of Maryland, Baltimore
Southern Management Corporation (SMC) Campus Center
621 W. Lombard Street
Baltimore, Maryland

Parking

Pratt Street Garage - \$17.00/day
646 W. Pratt St. Baltimore, MD
Entrance to the garage is on Pratt St.
Direct entrance to SMC – Level 3 of the garage.

Driving Directions

From the North to South:
Follow 1.95 to exit 52 (Russell Street). Follow Russell Street as it merges into Paca Street. Turn left onto Lombard St, and cross over Greene St and the campus center will be on the left.

From 1-83:
Follow 1-83 (Jones Falls Expressway) until expressway ends. Go to traffic lights and turn right onto Lombard St. Follow Lombard St for 13 traffic lights and right after crossing over Greene St, the campus center will be on the left.