

CHICAGO

# Sonographer Update

SATURDAY, MAY 4, 2024

## Echocardiographic Assessment of Cardiac Function in Heart Failure: From Fetus to Young Adults

|                         |   |   |
|-------------------------|---|---|
| 7 a.m.                  | BREAKFAST   |   |
| 7:15 a.m.               | WELCOME   | Shivani Patel, MBBS and Stefani Samples, MD                     |
| 7:30 – 8:30 a.m.        | SESSION 1: Heart Failure in Fetal Echocardiography  | <b>Moderators:</b> Sheetal R. Patel, MD, and Karim A. Diab, MD  |
|                         | Fetal Cardiomyopathy (CV Profile Score)   | Angira Patel, MD  |
|                         | Fetal Arrhythmia  | Nina L. Gotteiner, MD   |
|                         | Twin-to-Twin Transfusion Syndrome (TTTS)  | Kelly L. Cox, MD  |
|                         | Q & A   |   |
| 8:30-10:10 a.m.         | SESSION 2: Cardiomyopathies   | <b>Moderators:</b> Philip T. Thrush, MD and Simon Lee, MD       |
|                         | Spectrum of Heart Failure in Pediatrics   | Philip T. Thrush, MD  |
|                         | Echocardiographic Assessment of Dilated Cardiomyopathy  | Nikkan Das, MD  |
|                         | Imaging Innovations in Hypertrophic Cardiomyopathy  | Simon Lee, MD   |
|                         | Left Ventricular Non-Compaction: Echo and Cross-Sectional Perspectives  | Andrew Lawson, MD   |
|                         | Anthracycline Cardiomyopathy: Multimodality Imaging for Cardiac Surveillance of Cancer Treatment in Children (ASE Guideline Review)                           | Nazia Husain, MBBS  |
|                         | Q & A   |   |
| 10:10-10:25 a.m.        | BREAK   |   |
| 10:25 a.m. – 12:20 p.m. | SESSION 3: Cardiac Function Assessments   | <b>Moderators:</b> Shivani Patel, MBBS, and Stefani Samples, MD |
|                         | Systolic Function Evaluation  | Neha Soni-Patel, MEd, RCCS, RDCS                                |
|                         | Cardiac Function Assessment in the Setting of Basic Arrhythmias: Left Bundle Branch Block (LBBB), Premature Ventricular Contractions (PVCs) and Paced Rhythms | A. Sami Chaouki, MD   |
|                         | New Frontiers in Cardiac Imaging: Ultrasound Enhancing Agents in Pediatric Heart Failure  | Jarrett R. Linder, MD   |
|                         | Diastolic Function Evaluation   | Amanda L. Hauck MD  |
|                         | Right Ventricular Function Assessment   | Vinesh Appadurai, MD  |
|                         | Update on Advanced Function Assessments: From Machine to Management (Fetal, Neonatal and Older Patients)  | <b>KEYNOTE ADDRESS:</b> Mark Friedberg, MD, PhD                 |
|                         | Q & A   |   |
| 12:20-1 p.m.            | LUNCH   |   |
|                         |   |   |

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|------------------|--|--|
| 1 – 2:30 p.m.    | <b>SESSION 4: Hands-on Scanning – Performing a Robust Function Assessment: 3D LV and RV Volume Assessment and Myocardial Strain Analysis</b> | <b><i>Sonographers:</i></b> Aneta Cenda, RDCS; Ceara Homb, RDCS; Erica Jenero, RDCS; Neha Soni-Patel, RCCS, RDCS; Cassie Polsen, RDCS; Anthony Shorter, RDCS |
|                  | <b>OR</b>  |  |
|                  | <b>Stump the Experts – Interesting Case Presentations</b>  | <b><i>Moderators:</i></b> Michael Carr, MD; Simon Lee, MD; Candice Vacher, RDCS  |
|                  | Texas Children’s Stumps the Experts in Chicago   | Candice Vacher, RDCS   |
|                  | DCM vs Myocarditis   | Asra Azizuddin, RDCS   |
|                  | HF in Kawasaki Disease   | Karan Carvahlo, MD   |
|                  | HFpEF  | Ravi Patel, MD   |
|                  | HF Congenital Heart Disease  | Elizabeth Dupuis, RDCS   |
|                  | HF Post Cardiac Transplant   | Ashish Garg, MD  |
| 2:30 - 2:45 p.m. | Fetal Echo Case  | Julie Grozev, RDCS   |
|                  | Discussion   |  |
| 2:45 - 4 p.m.    | <b>BREAK</b>   |  |
| 2:45 - 4 p.m.    | <b>SESSION 5: Heart Failure and Congenital Heart Disease (CHD)</b>   | <b><i>Moderators:</i></b> Andrew de Freitas, MD and Michael R. Carr, MD  |
|                  | Left Ventricular Failure in CHD  | Michael B. Satzer, MD  |
|                  | Right Ventricular Failure in CHD   | Bethan A. Lemley, MD   |
|                  | Single Ventricle Failure   | Amy S. Lay, MD   |
|                  | Q & A  |  |
| 4 – 5 p.m.       | <b>SESSION 6: End-Stage Heart Failure (HF)</b>   | <b><i>Moderators:</i></b> Pei-Ni Jone, MD and Brian Madden, MD   |
|                  | Echo and Ventricular Assist Devices: What the Heart Failure Team Needs to Know   | Brian Madden, MD   |
|                  | Echocardiographic Assessment of ECMO: What the Surgeon Needs to Know   | Michael C. Mongé, MD   |
|                  | New Frontiers in HF: Implantable Pulmonary Artery Monitor Pressure Measurement Devices   | Anjan Tibrewala, MD  |
|                  | Q & A  |  |
| 5 p.m.           | <b>ADJOURN</b>   |  |

| RECORDED SESSIONS  |   |
|--|---|
| Echocardiographic and Multimodality Assessment of Restrictive Cardiomyopathy | Madeline Jankowski, ACS, RDCS                     |
| ARVC Explained   | Stephanie Chandler, MD                            |
| Pathology Review: HCM/DCM/ARVC/Restrictive/Explanted Devices/Etc.            | Ra-id Abdulla, MD and Jennifer Acevedo, ACS, RDCS |
| RV Failure in ACHD (Mustard, TOF)  | Andrew de Freitas, MD                             |
| Post Transplant Echo: What You Should Know                                   | Michael R. Carr, MD                               |
| LV Failure in ACHD   | Peter R. Koenig, MD                               |
| Systemic RV Failure  | Joyce Woo, MD                                     |
| BONUS CONTENT: Recorded How-To Sessions                                      |   |
| Perform Myocardial Strain Analysis   | Aneta Cenda, RDCS                                 |
| Perform 3D/4D Volume Acquisition   | Cassandra Polsen, BS, RDCS                        |
| Perform RV Volume Acquisition  | Cassandra Polsen, BS, RDCS                        |

## FACULTY

### Course Directors and Program Coordinator Lurie Children's

**Shivani Patel, MBBS, MS, FASE Course Co-Director**

Health System Clinician, Northwestern University Feinberg School of Medicine

Associate Clinician, Ann & Robert H. Lurie Children's Hospital of Chicago

**Stefani Samples, MD, FASE Course Director**

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**Kathleen Nolan, BS, RDCS, RDMS, Program Coordinator**

Senior Cardiac Sonographer

Ann & Robert H. Lurie Children's Hospital of Chicago

### Guest Faculty and Keynote Speaker

**Vinesh Appadurai, MD**

Advanced Cardiovascular Imaging Fellow

Northwestern Medicine

**Asra Azizuddin, RDCS**

Echo Education, Quality & Accreditation Coordinator

Bluhm Cardiovascular Institute – West Region Central Dupage Hospital

**Mark Friedberg, MD, PhD - KEYNOTE PRESENTATION**

Professor of Pediatrics, University of Toronto

Paediatric Cardiologist, Hospital for Sick Children

**Julie Grozev, RDCS**

Lead Maternal Fetal Cardiac Sonographer

Inova Children's Cardiology

**Madeline Jankowski, ACS, RDCS, FASE**

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Professor of Pediatrics

**Andrew Lawson, MD**  
Cardiology Fellow

**Simon Lee, MD, FASE**  
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**Jarrett R. Linder, MD**  
Assistant Professor of Pediatric

**Michael C. Mongé, MD**  
Associate Professor of Surgery (Cardiac Surgery)

**Sheetal Patel, MD, FASE**  
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**Michael B. Satzer, MD**  
Health System Clinician of Pediatrics

**Philip T. Thrush, MD**  
Associate Professor of Pediatrics