9th Annual

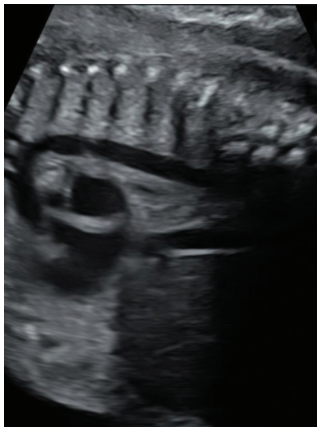
Fetal Imaging Conference

Park City Marriott

Outflow Tracts: Pipes, Pressure, and Pathology

September 27–28, 2019

Intermountain® Healthcare | Intermountain® Pediatrics | HEALTH UNIVERSITY OF UTAH



Target audience: Sonographers, Cardiologists, Obstetricians, Radiologists, Fellows

Friday, September 27 (Pressure)

10 AM–12 PM **Pre-Conference Workshop**
» Basic screening tips and tricks 4C, outflows, 3V, image optimization with simultaneous hands on scanning (additional $50 fee)

12–1 PM **Registration and Exhibits**

1–1:30 PM **Why Do We Screen for Heart Defects—What Happens When a Diagnosis is Missed?**
Jason T. Su, DO
» Describe why detection matters
» Identify the impact on delivery and the child when diagnoses are missed

1:30–2 PM **Diabetic Embryopathy—When Everything Can Go Wrong**
Jan Byrne, MD
» Review fetal anomalies associated with diabetic mothers
» Describe tips to detect these anomalies on ultrasound imaging

2–2:30 PM **Pressure—Extracardiac Masses (Imaging)**
Paula J. Woodward, MD
» Describe types of extracardiac masses
» Identify key imaging findings to diagnose extracardiac masses

2:30–3 PM **Pressure—Extracardiac Masses (Postnatal Management)**
Stephen Fenton, MD, FACS
» Review management and outcome of different extracardiac masses

3–3:15 PM **Breaks and Exhibits**

3:15–3:45 PM **Screening the Fetal Heart—Focus on the Outflows**
Will Lindsley, RDMS (FE, OB, AB), RVT
» Review normal anatomic findings for basic heart images
» Demonstrate techniques to obtain outflow tract images

3:45–4:15 PM **Pressure—The Impact of Extracardiac Masses on the Heart**
Joyce Johnson, MD, MSCI
» Describe the impact of extracardiac masses on cardiac function
» Demonstrates how extracardiac masses can impact imaging of the heart

4:15–4:45 PM **Following Growth and Well-Being in a Fetus with Anomalies**
Michelle Debbink, MD, PhD
» Identify markers of well-being in the normal fetus
» Describe which markers are affected and how they are interpreted when an anomaly is present

4:45–5:15 PM **Panel—Delivery Decisions in the Face of Multiple Defects and Growth Issues**
Jan Byrne, MD,
Stephen Fenton, MD, FACS,
Michael D. Puchalski, MD
» Discuss factors to consider when weighing risks to fetus and mother
» Describe outcomes of delivery decisions

5:15–5:45 PM **Wrap-up and Quiz**

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* **Friday Morning Pre-Conference Workshop**
Attendees of the pre-conference workshop will have the opportunity to participate in small groups (no larger than 2-3 participants per faculty) to practice basic and advanced cardiac imaging. This session will also include a brief introduction on imaging tips prior to hands on practice. The workshop will be from 10 am to noon on Friday. Please indicate your interest in participating when registering for the conference. The fee for this additional opportunity will be $50.

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Saturday, September 28 (Pipes & Pathology)

7–8 AM **Breakfast**

8–8:30 AM **Syndromes in Conotruncal Lesions—Focus on 22Q11**
Anne Kennedy, MB, BCH, BAO
» Describe imaging findings in 22q11 fetuses and children
» Review the spectrum of 22q11 CHD and clinical findings

8:30–9 AM **Fetal Echocardiogram (Extended Views)**
Will Lindsley, RDMS (FE, OB, AB), RVT
» List standard exam protocols and explain methods to obtain views
» Describe methods to identify anatomic abnormalities

9–9:20 AM **How to Think About the Conotruncus—Pattern Recognition**
Nelangi M. Pinto, MD
» Identify abnormal versus normal outflow tracts
» List differential diagnoses for fetal outflow tract abnormalities

9:20–9:50 AM **Single Vessel (PA/VSD and Truncus)**
Joyce Johnson, MD, MSCI
» Demonstrate fetal imaging for a single outflow tract
» Describe pearls to help determine the specific CHD

9:50–10:10 AM **Break and Exhibits**

10:10–10:40 AM **Parallel Outflows—In Depth DTGA, CCTGA**
Thomas A. Miller, DO
» Demonstrate fetal imaging features when the outflow tracts are parallel
» Describe pearls to help determine the specific CHD when outflows are parallel

10:40–11 AM **One Outflow is Too Small—The Right**
Shaji C. Menon, MD
» Demonstrate imaging findings when the right outflow tract is small
» Describe pearls to help determine the specific CHD in this condition

11–11:30 AM **One Outflow is Too Small—The Left**
Carol McFarland, MD
» Demonstrate the imaging features when the left outflow tract is small
» Describe pearls to help determine the specific CHD in this condition

11:30 AM–12 PM **Putting it All Together—DORV**
Jason T. Su, DO
» Review the spectrum of double outlet right ventricle
» Describe fetal features to distinguish what is needed postnatally

12–1:00 PM **Lunch and Exhibits**

1–2:00 PM **Live Scanning/Pathology**
Lance Erickson, PA (ASCP), HTL, MB
Fellows and Sonographers

2–2:30 PM **Fellow/Sonographer Case Presentations**
» Review education presentations using a case based format
» Describe key findings that help classify cases

2:30–3 PM **Parent Panel**
» Impart parental perspective of having a child with CHD
» Describe why earlier detection matters

3 PM **Conference Wrap-up**

Guest speakers

Will Lindsley, RDMS (FE, OB, AB), RVT
Will Lindsley has been a sonographer for 10 years and has spent the majority of his time in maternal-fetal medicine and fetal echocardiography. He currently serves as the educator for a large MFM department in Austin, TX; Austin Maternal-Fetal Medicine in partnership with the St. David's Women's Center of Texas. One of his primary interests is improving the sonographic approach to fetal screening, particularly, fetal heart screening.

Joyce Johnson, MD, MSCI
Dr. Johnson's primary clinical interests include fetal and pediatric echocardiography and her primary academic interest is in value (outcomes and cost) research in congenital heart disease. Dr. Johnson's academic pursuit is to develop a cardiovascular research mission in which she aims to develop a value-based health care delivery model to improve the efficiency and efficacy of care provided to children with congenital heart disease in order to transform the way we deliver care and optimize their outcomes and cost.

Location and Lodging
Park City Marriott
1895 Sidewinder Dr, Park City,
Reservations call:
435.649.2900

A special conference rate of $132 a night is available when you mention Intermountain Healthcare Fetal Imaging at registration. A limited amount of rooms are available and the special rate ends on September 7th, 2019.

Purpose

The purpose of this conference is to increase the knowledge and skills of sonographers and physicians who care for the mother or child with possible congenital heart disease. The first day will focus on the importance of ultrasound screening for heart defects in the fetus and the impact of extracardiac anomalies on the fetal heart. The second day will focus on more in-depth imaging of conotruncal defects such as DORV, transposition of the great arteries, and truncus arteriosus. This day will also include hands on imaging, pathology and a parent panel. These sessions will increase the expertise of participants on imaging these anomalies and will also add to their knowledge of the expected courses and outcomes in different types of conotruncal defects.

Accreditation

ACCME ACCREDITED WITH COMMENDATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Intermountain Healthcare, Intermountain Pediatrics, the Departments of Pediatrics, Obstetrics and Gynecology, and Radiology at the University of Utah School of Medicine. Intermountain Healthcare is accredited by the ACCME to provide continuing medical education for physicians.

AMA Credit

Intermountain Healthcare designates this live educational activity for a maximum of 10 *AMA PRA Category 1 Credit*™ for the main conference and an additional 2 credit hours for the optional pre-conference workshop. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Credit hours are subject to change and are based on actual learning hours based on the discretion of IPCE.

SDMS CME

Credit approval is pending.

Speakers

Jan Byrne, MD
Professor, Obstetrics/Gynecology
Adjunct Professor, Pediatrics
University of Utah School of Medicine

Michelle Debbink, MD, PhD
Instructor of Obstetrics and Gynecology
Maternal-Fetal
Medicine Division
University of Utah School of Medicine

Lance Erickson, PA (ASCP), HTL, MB
Adjunct Assistant Professor,
Division of Pediatric Pathology
Department of Pathology
University of Utah School of Medicine
Supervisor,
Anatomic Pathology Laboratory
Primary Children's Hospital

Stephen Fenton, MD FACS
Assistant Professor of Surgery
Adjunct Assistant Professor
of Pediatrics
University of Utah School of Medicine
Medical Director, Trauma Program
Primary Children's Hospital
Salt Lake City, Utah

Anne Kennedy, MB, BCH, BAO
Professor, Radiology
Adjunct Professor,
Obstetrics / Gynecology
University of Utah School of Medicine

Carol McFarland, MD
Pediatric Cardiology Fellow
Pediatric Cardiology Division
University of Utah School of Medicine

Shaji C. Menon, MD
Associate Professor, Pediatrics
Pediatric Cardiology Division
Adjunct Associate Professor, Radiology
University of Utah School of Medicine

Thomas A. Miller, DO
Assistant Professor, Pediatrics
Pediatric Cardiology Division
University of Utah School of Medicine

Nelangi M. Pinto, MD
Associate Professor, Pediatrics
Pediatric Cardiology Division
University of Utah School of Medicine

Michael D. Puchalski, MD
Professor, Pediatrics
Pediatric Cardiology Division
Adjunct Professor, Radiology
University of Utah School of Medicine

Jason T. Su, DO
Professor, Pediatrics
Pediatric Cardiology Division
Adjunct Associate Professor, Radiology,
University of Utah School of Medicine

Paula J. Woodward, MD
Professor
Department of Radiology and
Imaging Sciences
Division of Clinical Radiology
University of Utah School of Medcine

Guest Speakers

Will Lindsley, RDMS (FE, OB, AB), RVT
Ultrasound Educator
St. David's Women's Center of Texas

Joyce Johnson, MD, MSCI
Assistant Professor, Pediatric Cardiology
Ann & Robert H. Lurie Children's
Hospital of Chicago
Northwestern University Feinberg
School of Medicine

Planning Committee

Nelangi M. Pinto, MD, Course Director
Laura Aure, MS, RN-C
Leesha Baker, BS, RDCS
Jan Byrne, MD
Anne Kennedy, MB, BCH, BAO
Amanda Kirk, MPA
L. Jonell Murray, MBA-MA, MS
Michael Puchalski, MD
Jason T. Su, DO

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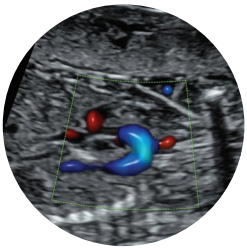
Registration

Online: primarychildrens.org/fetalimaging

By Mail:

Intermountain Healthcare Inc.
Interprofessional Continuing Education
675 East 500 South, Salt Lake City, Utah 84102

Toll Free: 800.910.7262 | **Fax:** 801.442.0480



Name (please print): Title/Credentials:

☐ MD ☐ Sonographer ☐ Resident/Fellow ☐ Other: _____

Organization:

Address:

City:

State: Zip Code: Daytime Phone:

E-mail:

Please indicate any special needs:

One question about these topics I would like to be addressed is:

Tuition

Payment must accompany this registration form:

☐ Full conference: $275 (MD)
☐ Full conference: $150 (Non-MD)
☐ Printed syllabus: $50 (online syllabus free)
☐ Pre-Conference Workshop: $50

Tuition total: _____

*All refunds are subject to a $10 processing fee. No refunds will be made after Sept. 1, 2019.

Payment (Payment must accompany registration. No purchase orders accepted.)

☐ Check (payable to **Interprofessional Continuing Education**)

☐ Visa ☐ American Express ☐ Master Card ☐ Discover

Authorized Cardholder Name: CVV:

Account Number: Expiration Date:

Signature: