



3RD ANNUAL

Pediatric Echocardiography Review

October 4–6, 2019

Children's Hospital Colorado
Conference & Education Center
13123 E. 16th Avenue
Aurora, CO

Provided by

Children's Hospital Colorado Heart Institute



Children's Hospital Colorado
Here, it's different.™



Affiliated with
University of Colorado
Anschutz Medical Campus

Overview and Target Audience

This three day conference will focus on congenital pediatric echocardiography. This course has been designed to combine lectures, panel discussions, case scenarios, and supervised live hands-on scanning. Children's Hospital Colorado pediatric cardiologists and sonographers will lead the lectures, sharing their expertise in the diagnosis and scanning of congenital heart disease. Target audience includes adult sonographers, cardiology fellows, and pediatric sonographers wanting to increase their experience with pediatric echocardiography and congenital heart disease.

Objectives

Upon completion of this conference, participants should be able to:

- Define the basic features of a wide variety of congenital heart defects
- Describe standard pediatric echo scanning views
- Describe strategies to optimize echo quality in the pediatric population
- Demonstrate the ability to scan pediatric patients with basic congenital heart defects
- Identify important imaging goals in post-operative echocardiography

Other highlights of attending course:

- Catered breakfast, lunch, and snacks
- Basic and Advanced Breakout Sessions
- Cardiac pediatric patients will be the models for hands on scanning sessions. There will be 2 sessions guided by our sonographers with a 2:1 ratio in the scanning rooms
- Small group conversations with our reading cardiologists and case review
- Paper binder with Power Point slides included
- Opportunity to network with echo colleagues
- Audience response system utilized during the conference
- Social outing on Friday October 4th, 2019

Continuing Education Credit

Medical: Children's Hospital Colorado is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Children's Hospital Colorado designates this live activity for a maximum of *18.5 AMA PRA Category 1 Credit(s)*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Others: A general certificate of attendance will be given to all other care providers.

Location and Parking

The conference will be held on the Anschutz Medical Campus at Children's Hospital Colorado, 13123 East 16th Avenue in Aurora, Colorado 80045. Please enter the hospital at the main entrance and take the elevators to the second floor to the Conference and Education Center. Free parking for conference guests is available on the Lower Level of the Family/Visitor parking structure, just south of the hospital's main entrance. Employees of Children's Colorado and University of Colorado Hospital must park in their designated area. Please visit www.childrenscolorado.org/directions for driving directions.

Accommodations

The following hotels are within walking distance of the hospital and provide a shuttle service. Please contact directly to arrange housing needs.

Hyatt Regency, Aurora | 303-365-1234

Springhill Suites Marriott, Aurora | 720-859-1100

Agenda

Friday, October 4

9:00 a.m. Registration and Sign-in

9:45 **Welcome (Mt. Oxford Auditorium)**
Bruce "Biff" Landeck, MD FASE
Dawn Park, RDMS BS FASE
Scott Kirby, RDMS FASE

Let's Get Physical! Physiology of Congenital Heart Disease

Moderator Biff Landeck, MD FASE

10:00 **Blood Flows to the Path of Least Resistance**
Adel Younoszai, MD FASE

10:40 **Shunts are Complicated**
Dale Burkett, MD

11:20 **Panel Q & A**

11:30 Lunch (Take lunch into breakout sessions)

BREAKOUT SESSIONS

Breakout Option 1: Basic (Mt. Princeton)

K.I.S.S: Keep it Simple, Sonographer

Moderator Scott Kirby, RDMS FASE

12:00 p.m. **Prenatal to Neonatal: Everything That's In Between**
Dawn Park, RDMS BS FASE

12:30 **The Stubborn Newborn: Persistent fetal circulation and the PDA**
Doaa Aly, MBBCH MS

1:10 **Interesting Cases: Echo Cases That Make You Go "Hmm..."**
Kourtney Brooks, RDMS

1:20 **Panel Q & A**

1:40 Break

Breakout Option 2: Advanced (Mt. Columbia)

Brain Cramps: Missing Parts and Wrong Connections

Moderator Biff Landeck, MD FASE

12:00 p.m. **Complex Congenital Heart Disease: The Segmental Approach**
Adel Younoszai, MD FASE

12:30 **Heterotaxy: How it Makes Your Head Spin**
Mike DiMaria, MD FASE

1:10 **Interesting Case: Your Typical Friday at 5pm Echo**
Jesse Aguilar, RDMS

1:30 **Panel Q & A**

1:40 Break

The Art and Science of Pediatric Echocardiography

Moderator Dawn Park, RDMS BS FASE

2:00 **Image Optimization: Some Sound Advice**
Scott Kirby, RDMS FASE

2:45 **Transition from Adult to Pediatrics: Insightful Moments and Tricks of the Trade**
Tracy Hill, RDMS BS

3:15 **Panel Q & A**

3:30 Break (with snack)

Echo Jeopardy!

4:00 *Moderator Biff Landeck, MD FASE*
Contestants: Jenny Bielby, RDMS, Carlie Brewer, RDMS BS, Kourtney Brooks, RDMS, Courtney Cassidy, RDMS FASE, Jeanine Gruenwald, RDMS, Tracy Hill, RDMS BS

5:00 Adjourn

Social Outing

Logan House Coffee Company at Stanley Marketplace, 2501 Dallas St, Aurora, CO 80010. Please join us for refreshments and appetizers.

Saturday, October 5

- 7:00 a.m. Breakfast
- 7:45 Saturday Morning Welcome (Mt. Oxford)
- 8:00 **Live Scanning Demo and Protocol**
Scott Kirby, RDCS FASE

Extracardiac Stuff is Important Too!

Moderator Biff Landeck, MD FASE

- 9:00 **Imaging the Aortic Arch: It's Not So Easy**
Courtney Cassidy, RDCS FASE
- 9:35 **Coronaries and Veins: They're Kind of a Big Deal**
Carlie Brewer, RDCS BS
- 10:10 **Q&A**
- 10:15 Break (with snacks)

BREAKOUT SESSIONS

Breakout Option 1: Basic (Mt. Princeton)

Hole Foods: Bread and Butter Congenital Defects

Moderator Dawn Park, RDCS RDMS BS FASE

- 10:30 **ASD: More Than Just a Secundum Conundrum**
Matt Demecs, RDCS
- 11:00 **VSD: It's More Than Just a Hole Between the Ventricles**
Lora Ringgenberg, RDCS MS BS
- 11:30 **Interesting Case Presentation: Cases That Give Sonographers Tachycardia**
Matt Demecs, RDCS
- 11:45 **Panel Q & A**

Breakout Option 2: Advanced (Mt. Oxford)

Time to Get Real, Two Tough Diseases

Moderator Biff Landeck, MD FASE

- 10:30 **Pulmonary Atresia with Intact Ventricular Septum: How to Assess the Badness**
Biff Landeck, MD, FASE

- 11:00 **Hypoplastic Left Heart Syndrome: Bad Things Can Come in Small Packages**
Scott Kirby, RDCS FASE

- 11:45 **Panel Q & A**

Noon Lunch (provided)

Saturday Live Scanning Session 1 / Lecture Session 1 Innies and Outies, The Valves of the Heart

Group A and B: Mt. Oxford Lecture

Group C and D: Echo Lab Hands-On Scanning

Moderator Dale Burkett, MD

- 1:00 **Right Side, Left Side, or Down the Middle: AV Valve Disorders**
Dale Burkett, MD

- 1:40 **How the Elephant Got its Truncus**
Ben Frank, MD

- 2:05 **Interesting Case Presentation**
Doaa Aly, MBBCH MS

- 2:15 **Panel Q & A**

- 2:30 Break (with snack)

- 2:50 Meet in Mt. Oxford

Live Scanning Session 2 / Lecture Session 2 Innies and Outies, The Valves of the Heart

Group A and B: Echo Lab Hands-On Scanning

Group C and D: Mt. Oxford Lecture

Moderator Dale Burkett, MD

- 3:00 **Right Side, Left Side, or Down the Middle: AV Valve Disorders**
Dale Burkett, MD

- 3:40 **How the Elephant Got its Truncus**
Ben Frank, MD

- 4:05 **Interesting Case Presentation**
Doaa Aly, MBBCH MS

- 4:15 **Panel Q & A**

- 4:30 Adjourn

Sunday October 6

7:00 a.m. Breakfast

7:45 Sunday Morning Welcome (Mt. Oxford)

Sunday Live Scanning Session 1 / Lecture Session 1

Group A and B: Echo Lab Hands-On Scanning

Group C and D: Mt. Oxford Lecture

Dude, Where's My Conus?

Moderator *Pei-Ni Jone, MD FACC FASE*

8:00 **Tetralogy of Fallot: Time for Some ToF Love**

Pei Ni Jone, MD FACC FASE

8:25 **Transposition of the Great Arteries:
Going Rogue**

Michael DiMaria, MD FASE

8:50 **Double Outlet Right Ventricle:
A Bonus Conus**

Jesse Davidson, MD

9:15 **Panel Q & A**

9:30 Break (with snack)

Sunday Live Scanning Session 2 / Lecture Session 2

Group A and B: Mt. Oxford Lecture

Group C and D: Echo Lab Hands-On Scanning

Dude, Where's My Conus?

Moderator *Pei-Ni Jone, MD FACC FASE*

10:00 **Tetralogy of Fallot: Time for Some ToF Love**

Pei Ni Jone, MD FACC FASE

10:25 **Transposition of the Great Arteries:
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Michael DiMaria, MD FASE

10:50 **Double Outlet Right Ventricle:
A Bonus Conus**

Jesse Davidson, MD

11:20 **Panel Q & A**

11:30 Lunch (provided)

Single Ventricles - Half the Heart, Twice the Fun!

Moderator *Dawn Park, RDMS RDMS BS FASE*

12:15 p.m. **Making Lemonade Out of Lemons: Single
Ventricle Palliation**

Biff Landeck, MD FASE

12:45 **Rerouted: A How-To Guide for Imaging
Single Ventricle Stages 2 and 3**

Carlie Brewer, RDMS BS

1:10 **Interesting Case Presentation**

Biff Landeck, MD FASE

1:25 **Panel Q & A**

1:40 Break (no snack)

Repair and Beyond: How to Fix It and What to Expect

Moderator *Biff Landeck, MD FASE*

1:50 **Post-Op Evaluations: It's Not So Easy**

Courtney Cassidy, RDMS FASE

2:35 **Adult Congenital Heart Disease: Oh, The
Places You Will Go**

Dawn Park, RDMS RDMS BS FASE

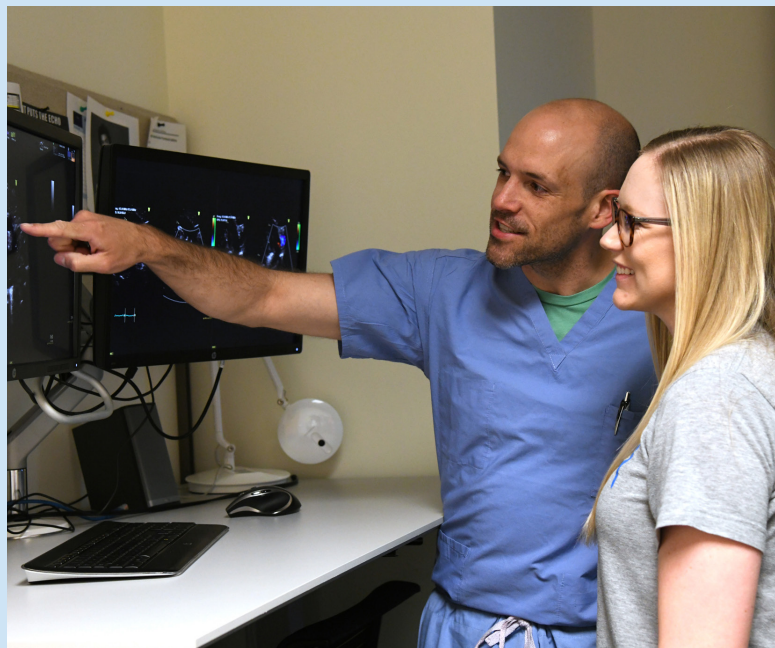
3:10 **Panel Q & A**

3:20 **Closing Remarks, Evaluations, and Adjourn**

Biff Landeck, MD FASE

Dawn Park, RDMS RDMS BS FASE

Scott Kirby, RDMS FASE



Faculty:



Course Director

Bruce 'Biff' Landeck, MD FASE

Associate Professor, Pediatric Cardiology
Director of Non-Invasive Imaging Education



Course Co-Director

Dawn Park, RDCS (AE PE FE) RDMS BS FASE

Senior Pediatric and Fetal Cardiac Sonographer



Scott Kirby, RDCS (AE PE) FASE

Senior Pediatric Cardiac Sonographer,
Technical Coordinator

Children's Hospital Colorado, Heart Institute

Jesse Aguilar, RDCS (AE PE) RVT

Associate Pediatric Cardiac Sonographer

Doaa Aly, MBBCH MS

Advanced Pediatric Cardiology Imaging Fellow

Jenny Bielby, RDCS (AE PE FE) BS

Associate Pediatric and Fetal Cardiac Sonographer

Carlie Brewer, RDCS (AE PE) BS

Senior Pediatric Cardiac Sonographer

Kourtney Brooks, RDCS (PE) RCCS BS

Associate Pediatric Cardiac Sonographer

Dale Burkett, MD

Assistant Professor Pediatric Cardiology

Courtney Cassidy, RDCS (AE PE FE) FASE

Senior Pediatric Cardiac Sonographer,
Research Sonographer

Jesse Davidson, MD MPH/MSPH

Assistant Professor Pediatric Cardiology

Matt Demecs RDCS (PE FE)

Senior Pediatric Cardiac Sonographer

Michael DiMaria, MD FASE

Associate Professor Pediatric Cardiology, Cardiac MRI

Brian Fonseca, MD

Associate Professor Pediatric Cardiology, Director of
Cardiac MRI

Benjamin Frank, MD

Assistant Professor Pediatric Cardiology

Jeanine Gruenwald, RDCS (AE PE) BS

Manager, Echocardiography Lab

Tracy Hill, RDCS (AE PE) BS

Associate Pediatric Cardiac Sonographer

Pei-Ni Jone, MD FACC FASE

Associate Professor Pediatric Cardiology
Director of 3D Imaging

Julio Lutterbach, MD

Clinical Instructor

Lora Ringgenberg, RDCS (AE PE) MS BS

Senior Pediatric Cardiac Sonographer

Adel Younoszai, MD FASE

Professor Pediatric Cardiology

Live Scanning Educators:

Jesse Aguilar RDCS (AE PE) RVT

Jenny Bielby, RDCS (AE PE FE) BS

Michelle Bregar, RDCS (AE PE) BS

Carlie Brewer, RDCS (AE PE) BS

Kourtney Brooks, RDCS (PE) RCCS BS

Courtney Cassidy RDCS (AE PE FE) FASE

Matt Demecs RDCS (PE FE)

Tracy Hill, RDCS (AE PE) BS

Casey Gau, RDCS (AE PE)

Lisa Gilbert RDCS (AE PE FE) RVT BS

Lisa Le, RDCS (AE PE) RVT

Lora Ringgenberg, RDCS (AE PE) MS BS

Cassie Polsen RDCS (AE PE) BS

Lindsay Provenzano RDCS (AE PE)

Mollie Schoenhals, RDCS (PE)

Registration

Visit our website today to register online at childrenscolorado.org/ce

Register online by **September 13, 2019** to receive the early registration fee.

You will receive confirmation and other important details via the online registration system.

Register early, as space is limited to accommodate 2:1 scanning ratio.

Registration Fees

	By 9/13	After 9/13
All Attendees	\$425	\$475

Payment Options: Online credit card payment only.

Cancellation Policy

The Planning Committee reserves the right to alter the agenda or cancel the conference in the event of an unforeseen circumstance, or if the minimum registration is not attained by September 13 with a full refund to participants.

Further Information

If you have questions or to request arrangements to accommodate a disability, please contact Dawn Park 720-777-8395 or dawn.park@childrenscolorado.org at least three weeks prior to conference.