

CARDIOLOGY 2025

28th Annual Update on
Pediatric and Congenital
Cardiovascular Disease

Hope. Heal. Learn.



FEB. 19-23, 2025

Learn more at
chop.edu/cardiology2025

 **Children's Hospital
of Philadelphia®**
Cardiac Center

Disney's Yacht & Beach Club Resort
Lake Buena Vista, Florida



WELCOME



Dear Colleagues & Friends,

In a world filled with human angst and societal turmoil, maintaining our professional focus can be a challenge. However, focus on our work is essential. What purer of heart and more noble a task can there be than improving the lives of some of our most disadvantaged humans, struggling with pediatric and congenital cardiovascular disease? Those of us with the desire, natural gifts and skill sets to care for people with these conditions can truly change, improve and repair the world. Providing hope to the afflicted and their families, healing with compassion, equity and resolve, and learning nature's hidden secrets through the discovery of new knowledge, are the principles by which we strive to abide — day in and day out. To hope, to heal and to learn, these efforts uphold the precious value of every life, no matter how damaged or affected by disease, and thus cultivate optimism for a brighter future for humanity.

Regularly sharing what we do and what we know with each other is what keeps our field moving forward. It is with this in mind that we present to you our collaborative gathering: the **28th Annual Update on Pediatric and Congenital Cardiovascular Disease** at the beautiful *Disney Yacht & Beach Club Resort*, in Lake Buena Vista, Florida, Wednesday, Feb. 19, through Sunday, Feb. 23, 2025.

Our theme this year is **Hope. Heal. Learn.** These words summarize the essence of our work. At Cardiology 2025, our course faculty will provide multiple talks in various plenary sessions, as well as presentations in subspecialty breakout sessions and a series of moderated panel conversations. We will cover all areas and topics related to the comprehensive care of the unborn, neonate, child, teen and young adult with cardiovascular disease.

Our conference reflects the multicenter collaboration of institutions across North America, as well as a community of professional disciplines focused on our work: physicians, nurses, surgeons, administrators, scientists, sonographers, allied health professionals as well as patient and family advocates. Through **learning, sharing, networking and professional socializing**, the goals of this educational conference are to give our collaborative community the tools necessary to best deliver a normal quality and duration of life to our patients with pediatric and congenital cardiovascular disease and to support their families.

We warmly welcome you to this year's conference in Florida!

Jack Rychik,
Course Director for the Organizing Committee
Cardiology 2025

GENERAL INFORMATION

Topics will include:

- The importance of grit and self-regulation in personal success in our profession
- Improving care coordination in partnership with managed care organizations when there is medical complexity
- Community health and equitable access to care in pediatric and congenital cardiovascular conditions
- Mental health concerns for the healthcare provider of pediatric and congenital cardiovascular disease care
- Virtual reality teaching of congenital heart disease
- The value of exercise as an essential component of the healthy individual with a Fontan circulation
- Understanding neurodevelopmental outcomes for individuals with congenital heart disease
- A parent's struggle with the loss of a child to congenital heart disease and grief management for families and providers
- Tips and tricks on reading electrocardiograms
- Predictions of the future with expected limitations in the fields of prenatal care, surgical innovation, catheter-based therapies, cardiac intensive care, brain outcomes in CHD, electrophysiology, nursing transplant/heart failure, and adult congenital heart disease
- Benefits of (and how to set up) a cardiometabolic health clinic for the young
- Updates on congenital and pediatric cardiac surgery in 2025
- The right ventricle in Ebstein's anomaly of the tricuspid valve: Understanding the condition, pathophysiology, mechanics, imaging and management strategies, including surgery
- Healthcare administration in pediatric and congenital cardiovascular disease: Sharing challenges and creating solutions
- Panel discussion on how interventional cardiology is changing the practice of CHD care right before our eyes, including case-based presentations and discussion of current and future innovations in cardiac interventions (stents, valves, opening and closing holes, and other interventions)
- Disappointments and errors in pediatric and congenital cardiovascular disease
- Are we really getting any better at care for pediatric and congenital cardiovascular disease ... and if not, how might we do it?
- Challenges and solutions in the individual with single ventricle
- Case-based learning: arrhythmias, athletics and heart failure
- Echocardiographic imaging of things that do not belong in the heart
- Global perspectives on pediatric and congenital cardiovascular health
- Hope, heal and learn in the field of heart failure and transplant: Case presentations and panel discussion
- Hope, heal and learn in the field of fetal cardiology: Case presentations and panel discussion
- Hope, heal and learn in the field of pediatric cardiac intensive care: Case presentations and panel discussion
- The twists and turns of heterotaxy syndrome
- 2025 Lymphatics update: Case presentations highlighting key principles in lymphatic disorders in pediatric and congenital cardiovascular disease
- Ambulatory pediatric cardiology
- Pediatric and congenital cardiovascular healthcare administration: Sharing and learning from each other — a conversation amongst leaders
- Clinical trials in pediatric and congenital cardiovascular disease
- Provider wellness when caring for pediatric and congenital cardiovascular disease
- I swear, I've never seen that before! Unusual conditions that have taught us something important
- Hey, what do you think? A short, pointed, didactic presentation or case-based presentation on controversial or interesting topics, with two experts offering provocative options on each topic
- Nursing topic-specific breakout sessions
- Perfusion specialist topic-specific breakout sessions
- Featured lecture presentations by chosen luminaries within the areas of cardiology, cardiac surgery, cardiac intensive care, basic cardiovascular science research and nursing

Call for Abstracts

Abstract Submission Deadline: **Friday, Dec. 6, 2024**
(11:59 p.m. EST)

Notification of Acceptance: **Friday, Dec. 20, 2024**

Oral Abstract Presentations: **Thursday, Feb. 20, 2025**

Poster Abstract Presentations: **Thursday, Feb. 20**
through **Saturday, Feb. 22, 2025**

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Course Objectives 2025

At the completion of this program, the healthcare team will be better able to:

- Outline the knowns and unknowns within the knowledge base that informs on how best to understand and care for the patient with pediatric and congenital cardiovascular disease
- Explain the methods for acquisition and sources of data and knowledge that currently exist and that need to be further developed to provide the means to offer optimal care for patients with pediatric and congenital cardiovascular disease
- Describe the science and knowledge base of information that supports current state-of-the art clinical practice for the patient with pediatric and congenital cardiovascular disease
- Recall the concepts and new strategies of care and practice for conditions unique to cardiovascular disease, ranging from the fetus to the adult with congenital heart disease
- Explain the concepts and new strategies of care and practice for systemic conditions outside of the heart which affect the child with cardiovascular disease
- Recognize the unique challenges of the single ventricle and Fontan circulation, including their origins and management
- Review the latest approach to advanced cardiac therapies for the failing circulation in the young
- Describe the current tools and methods available for optimal characterization of the cardiovascular system in the young, utilizing the latest advanced technologies, including echocardiography and MR imaging
- Outline the most recent developments in diagnosis and treatment of lymphatic conditions in the young
- Discuss the latest updates, challenges and opportunities in understanding organ dysfunction, such as liver disease, when there is congenital heart disease
- Recall the underlying principles and best practices for postoperative care by nurses and other front-line providers of the newborn and infant with congenital heart disease
- Review the strategies of management related to perfusion during open heart surgery in the operating room and during mechanical circulatory support outside of the operating room
- Describe the challenges and opportunities in team building amongst varied specialists and providers to optimally deliver care to the young with cardiovascular disease
- Recognize the importance of provider well-being and understand the factors influencing provider burn out
- Discuss strategies for improving team health functionality, as well as individual provider mental health, during periods of stress and grief

- Explain the value of administrative team collaboration in offering optimal healthcare to the community of pediatric and congenital cardiovascular disease
- Discuss the ideal strategies for provider team integration of outpatient community-based ambulatory care into the spectrum of cardiac care
- Recognize key controversies and clinical conundrums in pediatric and congenital cardiovascular disease and the elements that contribute to specific decision making by team providers
- Recognize the global variations in healthcare approach to pediatric and congenital cardiovascular conditions, with strengths, weaknesses and deficiencies around the world
- Outline the latest methods and techniques of catheter-based interventional cardiology in the treatment of congenital heart disease

Registration

The conference will be held Wednesday, Feb. 19, through Sunday, Feb. 23, 2025, at *Disney's Yacht & Beach Club Resort* in Lake Buena Vista, Florida. On-site registration is Wednesday, Feb. 19, from 6:30 a.m. to 6 p.m., and Thursday, Feb. 20, from 6:30 a.m. to 6 p.m.

Register online: **chop.cloud-cme.com**

Course Fees

The registration fee for the five-day conference is \$995 for physicians and \$595 for other healthcare professionals and physicians-in-training. The registration fee includes tuition, online presentations, daily continental breakfast, lunch and opening reception.

Full Conference: 4 p.m. Wed., Feb. 19, to noon, Sunday, Feb. 23

Physicians	\$995
Nurses, medical students, residents, fellows and other healthcare professionals.....	\$595

Optional Preconference Seminars

You must be registered for the full conference to register for a preconference.

A Primer & Review: Congenital Heart Disease and Postoperative Management: Comprehensive Review for Nurses and Front-Line Providers.....	\$150
Fetal Diagnosis and Treatment: Through the Lens of the Heart.....	\$150

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Accreditation



In support of improving patient care, this activity has been planned and implemented by Children's Hospital of Philadelphia (CHOP). CHOP is jointly accredited by the

Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Designation of Credit

Physicians: Children's Hospital of Philadelphia designates this live activity for a maximum of 35.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses: This program provides 35.25 ANCC contact hours.

Joint Accreditation IPCE Credit Statement

This activity was planned by and for the healthcare team, and learners will receive 35.25 Interprofessional Continuing Education (IPCE) credit for learning and change.

Wednesday, Feb. 19, 2025

Optional Preconference Seminars – 7:30 a.m. to 3:30 p.m.

A Primer & Review: Congenital Heart Disease and Postoperative Management: Comprehensive Review for Nurses & Front-Line Provider = 7

Fetal Preconference = 4.75

Main Conference: 4 p.m. Wednesday, Feb. 19, to noon Sunday, Feb. 23, 2025

Total *AMA PRA Category 1 credits™* = 28.25

Perfusion Accreditation Statement

An application for CEU Category 1 hour will be submitted.

Services for People with Disabilities

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.

Cancellation and Refund Policy

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, Children's Hospital of Philadelphia will refund registration fees but is not responsible for any related costs or charges assessed by airlines and travel agencies. In order to process refunds for course withdrawals, cancellations must be received in writing by Wednesday, Feb. 3, 2025. Refunds will be issued for the amount of registration, less a \$100 service charge.

Hotel Information

A block of rooms has been reserved at **Disney's Yacht & Beach Club Resort**, Lake Buena Vista, Florida. The group rate is \$389 per room, per night, for single or double occupancy, with an additional 12.5% tax. This rate includes internet access in guest rooms and the Conference Center. Participants must reserve their own accommodations by calling 407-939-4686 or reserving a room online at <https://mydisneygroup.com/chopcadiology2025>.

For the reduced conference rate, mention "Cardiology 2025 Conference" when making your reservation. The conference rate covers Feb. 17 – Feb. 26, 2025, and will only be available until **Monday, Jan. 20, 2025**. Reservations made after Jan. 20 will be accepted based on space and rate availability.

Disney Disclaimer

From January 2025 through June 2025, Stormalong Bay and Shipwreck Pool at Disney's Yacht and Beach Club Resorts will be closed for routine maintenance. Guests may see or hear construction work during daytime hours. During this time, guests are welcome to swim at the Tidal, Admiral and Dunes Cove leisure pools.

As an added benefit for our CHOP registered attendees staying at Disney's Yacht and Beach Resort, you will receive one (1) After 1 p.m. Park Ticket for admission to one (1) *Walt Disney World* Theme Park beginning at 1 p.m. for one (1) day. This ticket will already have a park reservation added for Epcot on Friday, Feb. 21, 2025. However, if you would prefer to go to another park, simply attach the ticket to your My Disney Experience Account and modify the park reservation to another park, based upon availability. For more information on linking your ticket and modifying park reservations, please visit this link: [Disney Park Pass Reservation System: How It Works | Walt Disney World Resort \(go.com\)](#)

Additionally, all *Walt Disney World* registered resort guests receive a Water Park ticket to be used on arrival day in 2025! **Please Note:** To receive this benefit, all guests MUST be listed on the resort reservation, in advance, in order to gain access to the Water Park.

Details to make the most of your water park day

Things to know before you go and important details are included here: [Water Park Benefit for 2025 Resort Guests | Walt Disney World Resort \(go.com\)](#)

CONFERENCE PROGRAM



WEDNESDAY, FEB. 19

Optional Preconference: 7:30 a.m. – 3:30 p.m.

Congenital Heart Disease and Postoperative Management: A Master Class for Nurses, APPs, and Front-line Providers

Room: Salons 1 and 2

Moderators: Katie Dodds, Lisa Laddish, Nicole Lucchesi and Lauren Betancourt

- 7:30 a.m. What is “Normal” Cardiac Anatomy?
Meryl Cohen
- 7:45 a.m. Screening, Diagnosis and Preoperative Assessment
Kathryn Dodds
- 8 a.m. Open Heart Surgery: What is CPB, X Clamp, Circulatory Arrest?
Christy Bosler
- 8:15 a.m. Early Postoperative Management Issues and Concerns
Maryam Naim
- 8:30 a.m. Temporary Pacing: Who and How?
Maully Shah
- 8:45 a.m. Break
- 9 a.m. ECHO: Effusions, Function, Evaluation of Surgical Operation
David Goldberg
- 9:15 a.m. What the Chest X-ray Can and Cannot Show You
Aaron DeWitt
- 9:30 a.m. How to Decipher Cardiac Catheterization Data
Andrew Glatz
- 9:45 a.m. Postoperative Arrhythmias: SVT, JET, Heart Block, VT
Maully Shah
- 10 a.m. ECMO and Mechanical Support in Children with CHD
Chitra Ravishankar
- 10:15 a.m. Sedation and Pain Management after Cardiac Surgery
Aaron DeWitt
- 10:30 a.m. Break
- 10:40 a.m. Ventricular Septal Defect:
Anatomy/Morphology – *Meryl Cohen*
Surgery – *William DeCampli*
Postoperative Care and Outcomes –
Nicole Lucchesi

- 11a.m. Complete Common Atrioventricular Canal Defect:
Anatomy/Morphology – *Meryl Cohen*
Surgery – *James E. O’Brien*
Postoperative Care and Outcomes – *Lisa Laddish*
- 11:20 a.m. Tetralogy of Fallot:
Anatomy/Morphology – *Meryl Cohen*
Surgery – *James E. O’Brien*
Postoperative Care and Outcomes – *Lisa Laddish*
- 11:40 a.m. Truncus Arteriosus:
Anatomy/Morphology – *Meryl Cohen*
Surgery – *Jonathan Chen*
Postoperative Care and Outcomes – *Kathryn Dodds*
- Noon Lunch
- 12:30 p.m. Coarctation of the Aorta:
Anatomy/Morphology – *Lindsay Rogers*
Surgery – *William DeCampli*
Postoperative Care and Outcomes – *Lisa Laddish*
- 12:50 p.m. Transition of the Great Arteries/Arterial Switch:
Anatomy/Morphology – *Lindsay Rogers*
Surgery – *Jonathan Chen*
Postoperative Care and Outcomes – *Kathryn Dodds*
- 1:10 p.m. Total Anomalous Pulmonary Venous Return:
Anatomy/Morphology – *Lindsay Rogers*
Surgery – *James E. O’Brien*
Postoperative Care and Outcomes – *Lauren Betancourt*
- 1:30 p.m. Single Ventricle:
Stage 1, Bidirectional Glenn, Fontan Anatomy/
Morphology – *Lindsay Rogers*
Surgery – *Jonathan Chen*
Postoperative Care and Outcomes – *Kathryn Dodds*
- 2:30 p.m. Growing Up with Congenital Heart Disease
Yuli Kim
- 2:45 p.m. A Patient Perspective
Thomas Glenn
- 3 p.m. Q and A
- 3:30 p.m. ADJOURN

Wednesday program continued on next page>

CONFERENCE PROGRAM



WEDNESDAY, FEB. 19

Optional Preconference: 10 a.m. – 3 p.m.

Fetal Diagnosis and Treatment: Through the Lens of the Heart

A mini symposium on prenatal diagnosis and management with focus on collaboration between maternal-fetal medicine and cardiology

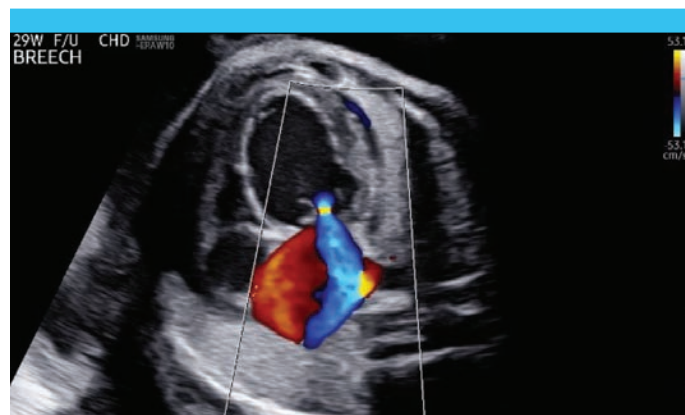
Room: Salons 3 and 4

Moderators: *Juliana Gebb and Amanda Shillingford*

- 10 a.m. Introduction
Juliana Gebb and Amanda Shillingford
- 10:05 a.m. Programmatic Approach and Systems of Care: Fetal Heart Program
Jill Combs
- 10:15 a.m. Programmatic Approach and Systems of Care: Prenatal Diagnosis, Treatment and Special Delivery Unit at a Children's Hospital
Susan Spinner
- 10:25 a.m. Q and A
Faculty
- 10:30 a.m. Collecting the Data: The Essential Value of a Birth Defects Biorepository
J William Gaynor
- 10:45 a.m. Ignored for Too Long: The Placenta is the Key!
Rebecca Josowitz
- 11 a.m. Q and A
Faculty
- 11:05 a.m. When a Fetal Cardiologist Could Use a Fetal Medicine Consult
Juliana Gebb
- 11:20 a.m. When Collaboration is Key: The Texas Children's Approach to Complex Conditions
Shaine Morris
- 11:35 a.m. Q and A
Faculty
- 11:40 a.m. Follow the Heart I: How Fetal ECHO Can Aid in the Management of Monochorionic Twins
Jack Rychik
- 11:55 a.m. Q and A
Faculty
- Noon Lunch and Learn: Bring your boxed lunch to the lecture hall!

- 12:20 p.m. Follow the Heart II: How Fetal ECHO Can Aid in the Management of Non-cardiac Fetal Anomalies
Shabnam Peyvandi
- 12:35 p.m. Fetal Cardiac Interventions: Where Are We Today and What Can We Expect in the Future?
Wayne Tworetzky
- 12:50 p.m. Multidisciplinary Care for Fetal Cardiac Tumors: Fetal Cardiologist and Maternal Fetal Medicine Perspectives
Jack Rychik and Desiree Fiorentino
- 1:15 p.m. Q and A
Faculty
- 1:20 p.m. There's a Hole in the Diaphragm: How to Manage?
Holly Hedrick
- 1:40 p.m. Q and A
Faculty
- 1:45 p.m. Delivery Room of the Future: Individualizing Care and Resources Necessary
Anne Ades
- 2:05 pm. It Takes a Multidisciplinary Team: Panel Discussion and Case Review of Prenatal Conditions from Diagnosis to Treatment and Delivery
Juliana Gebb and Amanda Shillingford (Leads), Anne Ades, Desiree Fiorentino, Holly Hedrick, Shaine Morris, Shabnam Peyvandi, Jack Rychik, Wayne Tworetzky
- 3 p.m. ADJOURN

Wednesday program continued on next page>





Opening Plenary Session: 4 – 6:30 p.m.

Hope. Heal. Learn.

Room: Grand Harbor North and South

Moderators: *Joseph Rossano and Jonathan Chen*

4 p.m. Opening Comments: Welcome to our 28th Anniversary and Introduction to Our Conference
Jack Rychik

4:15 p.m. Opening Session Experience of the Senses: Fetal Heart Motion-Sound Synesthesia
Alfonso de Jesus Martínez García and Cristóbal César Martínez García

4:30 p.m. Special Opening Featured Lecture: Grit and Self-Regulation, Essential Elements of the Human Character



Angela Duckworth, NYT Bestselling Author of *GRIT: The Power of Passion and Perseverance*

4:45 p.m. Improving Care Coordination for Complex Patients: Partnering with Managed Care Organizations
Kelly-Ann Light-McGroary

5 p.m. Modifying Congenital Heart Disease Outcomes through Community Health and Access to Care
Carissa Baker Smith

5:15 p.m. Understanding Neurodevelopmental Outcomes for Individuals with Congenital Heart Disease
Erica Sood

5:30 p.m. Virtual Reality is Indeed a Great Way to Teach Congenital Heart Disease!
Andrew Cook

5:45 p.m. The Best Medicine for a Fontan Circulation is ... Exercise!
Rachael Cordina

6 p.m. “I Will Survive”: The Neuroscience of Clinician Wellbeing



Liz Crowe, Organizational Solutionist, Wellbeing & Performance Counselor and author of *The Little Book of Loss & Grief You Can Read While You Cry*

6:15 p.m. Ambiguity and Humanity: A Parent's Perspective
James Robinson

6:30 p.m. ADJOURN

Opening Reception

6:30 – 8 p.m. • Location: TBD

 **Children's Hospital of Philadelphia**
Cardiac Center

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Sunrise Session I

7 – 8 a.m. **Let's Read ECGs! An Interactive Give and Take Review of Interesting Electrocardiograms from the Pediatric and Congenital Realm**

Room: Salons 1 to 4

Mitchell Cohen and Maully Shah

Plenary Session II: 8 – 10 a.m.

Let's Exercise the Dunning-Kruger Effect: Here are My Predictions for the Next Decade in ...

Room: Grand Harbor North and South

Moderator: Shelley Miyamoto

- 8 a.m. Prenatal Care in Cardiovascular Disease
Jack Rychik
- 8:12 a.m. Surgical Innovation in Pediatric and Congenital Cardiovascular Disease
William DeCampi
- 8:24 a.m. Catheter-based Therapies in Congenital Heart Disease
Bryan Goldstein
- 8:36 a.m. Cardiac Intensive and Acute Care in Pediatric and Congenital Cardiovascular Disease
Michael Gaies
- 8:48 a.m. Nursing Futures in Pediatric and Congenital Cardiovascular Disease
Patricia Hickey
- 9 a.m. Brain in Congenital Heart Disease
Shabnam Peyvandi
- 9:12 a.m. Electrophysiology in Pediatric and Congenital Cardiovascular Disease
Susan Etheridge
- 9:24 a.m. Transplant and Heart Failure
Jennifer Conway
- 9:36 a.m. Adult Congenital Heart Disease Care
Yuli Kim
- 9:48 a.m. Panel and Discussion
Faculty
- 10 a.m. ADJOURN

Break/Visit the Exhibits: 10 – 11 a.m.

Poster Session No. I: Asbury Hall and Salons 5 to 9

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Children's
Healthcare of Atlanta
Heart Center

Simultaneous Breakout Sessions: 11 a.m. – 1 p.m.

Nuts and Bolts of a Cardiometabolic Health Clinic

Room: Salons 1 and 2

Moderators: Geetha Raghuveer and Julie Brothers

- 11 a.m. Why a Cardiometabolic Clinic and National Preventive Pediatric Cardiology Program? Survey Results
Geetha Raghuveer
- 11:15 a.m. Early Life Risk Factors for Adult Cardiovascular Disease
Sarah de Ferranti
- 11:30 a.m. Hypertension in the Young and Vascular Health
Shobha Natarajan
- 11:45 a.m. Innovations in Preventive Pediatric Cardiac Care to Improve Outcomes
Adam Ware
- Noon Lipid Heart Health in the Young
Julie Brothers
- 12:15 p.m. Measuring Quality in a Preventive Pediatric Cardiology Program
Carissa Baker Smith
- 12:30 p.m. Predicting Future Outcomes in Cardiovascular Disease
Justin P.V. Zachariah
- 12:45 p.m. Panel and Discussion
Faculty
- 1 p.m. ADJOURN

Congenital & Pediatric Cardiac Surgery 2025 Update

Room: Grand Harbor North

Moderators: Jonathan Chen and James O'Brien

- 11 a.m. Novel Surgical Interventions for Support of the Failing Circulation
Constantine Mavroudis
- 11:15 a.m. Computational Modeling for Single Ventricle Surgery
Tain-Yen Hsia
- 11:30 a.m. Desensitization Strategies for Heart Transplantation in the Young
Lakshmi Gokanapudy Hahn
- 11:45 a.m. Domino Procedure
Andrew Goldstone
- Noon Minimal Impact vs. Minimally Invasive CHD Surgery
Daniel Velez
- 12:15 p.m. Neonatal Ross Procedure
David Winlaw
- 12:30 p.m. CHD Repair in Trisomy 13 or 18
Subhadra Shashidharan
- 12:45 p.m. Reducing the Risk of Heart Block at Time of Cardiac Surgery
Elizabeth DeWitt
- 1 p.m. ADJOURN

Thursday program continued on next page>



Focus on the Right Ventricle: Ebstein's Anomaly

Room: Grand Harbor South

Moderators: *Mark Friedberg and Laura Mercer-Rosa*

- 11 a.m. To Start Us Off: A Case Presentation
TBD
- 11:05 a.m. Prenatal Care: Imaging, Physiology, Treatment and Counseling
Lindsay Freud
- 11:20 a.m. Editorial Comment on Prenatal Care
Shaine Morris
- 11:25 a.m. Arrhythmias in Ebstein's Anomaly
Chandra Srinivasan
- 11:40 a.m. Right Ventricular Dyssynchrony and RV-LV Interactions in Ebstein's Anomaly
Mark Friedberg
- 11:55 a.m. Editorial Comment on RV-LV Interactions
Daniel Penny
- Noon Modeling the Right Ventricle
Mark Fogel
- 12:15 p.m. Editorial Comment on Modeling the Right Ventricle
Rahul Rathod
- 12:20 p.m. Surgical Treatment of the Neonate with Ebstein's Anomaly
Luciana da Fonseca da Silva
- 12:35 p.m. Editorial Comment on Surgical Treatment of the Neonate with Ebstein's Anomaly
Muhammed Nuri
- 12:40 p.m. Panel Discussion: Will We Ever be Able to Treat the Chronically Failing RV and What Do We Do Now?
Luciana da Fonseca da Silva, Daniel Penny, Joseph Rossano, Shelley Miyamoto
- 1 p.m. ADJOURN

Perfusion Breakout Session I

Future State of Perfusion for CPB

Room: Cape Cod B and C

Moderators: *Jeff Amendola and Tami Rosenthal*

- 11 a.m. DO2: Is it All That It's Cracked Up to Be?
Jeff Amendola
- 11:20 a.m. PediPerform: Can the Data Make a Difference?
Tami Rosenthal
- 11:40 a.m. Inflammatory Response and CPB-developments and Understanding
Jennifer Lynch
- Noon Incorporating CQI to Improve Clinical Practice
Kellie Schiavo

- 12:15 p.m. Late Presentation of a Defect: Challenges and Strategy
Constantine Mavroudis

- 12:30 p.m. Panel Discussion
Faculty

- 1 p.m. ADJOURN

Nursing Breakout Session I

Evidence-based Practice: Challenges and Successes

Room: Newport West

Moderators: *Kathryn Dodds and Angela Gooden*

- 11 a.m. How Can We Use EBP in the CICU?
Amanda Seelhurst
- 11:20 a.m. Provider Use of Patient Portal to Partner with Parents of Pediatric Acute Care Cardiology Patients
Sarah Lagergren
- 11:40 a.m. The Traveling Cath Lab
Karen Iacono
- Noon Trends in Cardiac ICU Readmissions: A Quality Improvement Approach
Tasha Bryant
- 12:20 p.m. Agree to Disagree: Getting on the Same Page About Incision Care
Jenn Jacob-Freese
- 12:40 p.m. Getting Replaced by an APP?
Britt Elin Fredriksen
- 1 p.m. ADJOURN

Thursday program continued on next page>





Healthcare Administration in Pediatric and Congenital Cardiovascular Disease: Sharing Challenges and Creating Solutions

Room: Salons 3 and 4

Moderators: Lawrence Barnes and Mark Schwartz

- 11 a.m. Structuring Administration for Pediatric & Congenital Cardiovascular Care
Wayne Franklin
- 11:15 a.m. What “Should” Our Congenital Heart Healthcare Workforce Look Like in 10 Years?
Vivek Allada
- 11:30 a.m. Roundtable Panel: Sharing Best Practices – Challenges and Solutions in Administration of Pediatric and Congenital Heart Centers
Sara Baumgarten, Jennifer Osborne, Anita Patel, Sara Dill, Carmen Watrin
- 1 p.m. ADJOURN

Outdoor Luncheon

1 – 2 p.m., Shipwreck Beach

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2 – 3 p.m. Oral Abstracts

Room: Grand Harbor North and South

Moderators: Jennifer Lynch and TBD

3 – 4 p.m. Moderated Panel of Experts

Interventional Cardiology is Changing the Practice of CHD Care Right Before Our Eyes: Case-based Presentations and Discussion of Current and Future Innovations in Cardiac Intervention (stents, valves, opening and closing holes, and other interventions)
Christopher Petit (Lead), Andrew Glatz, Bryan Goldstein, David Nykanen, Audrey Marshall

Plenary Session III: 4:15 – 6:15 p.m.

It Doesn't Always Turn Out the Way We Want: Disappointments and Errors in Pediatric & Congenital Cardiovascular Disease

Room: Grand Harbor North and South

Moderators: Meryl Cohen and TBD

- 4:15 p.m. Communicating Errors and How to Learn From Mistakes
Daniel Penny
- 4:30 p.m. Facing Up to Errors: How Do Systems Respond?
Alan Friedman
- 4:45 p.m. I've Intensely Cared for This Child but Things Did Not Turn Out Well: How Do I Manage? What Do I Do Next? The Nurse Perspective
Jenna Heichel
- 5 p.m. I've Intensely Cared for this Child but Things Did Not Turn Out Well: How Do I Manage? What Do I Do Next? The Physician Perspective
Meryl Cohen
- 5:15 p.m. The Difficult Family Conversation: Communication Between Providers and Patients
Aaron DeWitt
- 5:30 p.m. The Medicolegal Aspects of Errors
Benjamin Post
- 5:45 p.m. The Electronic Health Record: Friend or Foe?
Aaron Dorfman
- 6 p.m. ADJOURN



Friday, Feb. 21 | 6:15 – 8 a.m.

HEART RUN 5K

CARING FOR KIDS' HEARTS

EXERCISE YOUR BODY AND YOUR MIND!

Boardwalk

Registration required
and limited to the first
200 registrants

\$25 registration fee includes
5K Heart Run T-shirt

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FRIDAY, FEB. 21

Breakfast

7:30 a.m.

Sponsored by:



**Phoenix
Children's**

Plenary Session IV: 8 – 10 a.m.

Are We Really Getting Any Better, and If Not, How Might We Do It?

Room: Grand Harbor North and South

Moderators: Kiona Allen and Maryam Naim

- 8 a.m. Aspiration or Illusion? Improving Survival Outcomes for HLHS
J. William Gaynor
- 8:15 a.m. The Value of a Single Ventricle Registry and Learning Network: SV-One
Kiona Allen and Thomas Glenn
- 8:30 a.m. Imaging Data and the Fontan Circulation: The FORCE Registry
Rahul Rathod
- 8:45 a.m. Understanding and Managing Lymphatic Problems in CHD
Vibeke Hjortdal
- 9 a.m. Extremely Rare and Highly Variable: Pulmonary Vein Disease
Ryan Callahan
- 9:15 a.m. Modeling of Valves: Can It Have Clinical Impact?
Matthew Jolley
- 9:30 a.m. Improving Rescue Following Resuscitation
Monique Gardner
- 9:45 a.m. Neurological Outcomes: The Perioperative Perspective
Maryam Naim
- 10 a.m. ADJOURN

Break/Visit the Exhibits: 10 – 11 a.m.

Poster Session No. II: Asbury Hall and Salon 5 and 6

Sponsored by:

The Heart Center



Simultaneous Breakout Sessions: 11 a.m. – 1 p.m.

Robert & Dolores Harrington Session on Single Ventricle and Fontan Circulation: Challenges and Solutions in the Individual with Single Ventricle

Room: Grand Harbor North

Moderators: Angela Lorts and Jack Rychik

- 11 a.m. The Hybrid/VAD Approach to High-risk Newborns
Constantine Mavroudis
- 11:15 a.m. A Forgotten Key Time? Second Interstage After Glenn Before Fontan
Chitra Ravishankar
- 11:30 a.m. Family-centered Care in Managing Single Ventricle Heart Disease
Nicolas Madsen
- 11:45 a.m. What's All This About the Liver?
Jack Rychik
- Noon Does the Nature and Size of the Fontan Pathway Make a Difference?
Yves d'Udekem
- 12:15 p.m. Modeling of Blood Flow and Its Role in Characterizing the Fontan Circulation
Mark Fogel
- 12:30 p.m. Mental Health in the Young with Fontan Circulation
Nicholas Seivert
- 12:45 p.m. How Do I know It's Time to Consider a Heart Transplant?
Angela Lorts
- 1 p.m. ADJOURN

Case-based Learning: Arrhythmias, Athletics and Heart Failure

Case presentations highlighting practical approaches to diagnosis and management

Room: Salons 1 and 2

Moderators: Maully Shah (Lead), Julie Brothers, Mitchell Cohen, Elizabeth DeWitt, Jonathan Edelson, Viera Ilikova, Jeffrey Kim, Kara Motonaga

ECHO Breakout: Hey, This Does Not Belong Here!

Room: Grand Harbor South

Moderators: Craig Fleishman and Michael Quartermain

- 11 a.m. Imaging Evaluation of a (Possible?) Thrombus or Vegetation: This is How I Do It
Michael Quartermain
- 11:15 a.m. Imaging Evaluation of a BTT Shunt: This is How I Do It
Anitha Parthiban

Friday program continues on next page >



FRIDAY, FEB. 21 *(continued)*

- 11:30 a.m. Imaging Evaluation of a Fontan Pathway:
This is How I Do It
Lindsay Rogers
- 11:45 a.m. Imaging Evaluation of a Poorly Placed Intracardiac
Patch/Patch Leak: This is How I Do It
Meryl Cohen
- Noon Imaging Evaluation of a Prosthetic Mitral Valve:
This is How I Do It
Sanket Shah
- 12:15 p.m. Hey, What's an Anesthesiologist Doing Here?
The IMPACT Procedure and How It Has Changed
Outcomes for Life-threatening Newborn Conditions
Asif Padiyath
- 12:30 p.m. Panel and Discussion
Faculty
- 1 p.m. ADJOURN

Global Perspectives on Pediatric and Congenital Cardiovascular Health

Room: Salons 3 and 4

Moderators: Zhiyun Tian and Ruth Frey

- 11 a.m. Role of a Major Children's Hospital in Promoting
Global Pediatric Healthcare
Ruth Frey
- 11:15 a.m. Contributions Dedicated to Global Education and
Training in Fetal Echocardiography
Zhiyun Tian
- 11:30 a.m. Australia
Rachael Cordina
- 11:45 a.m. China
Yonghao Gui
- Noon Europe/Bratislava/Slovakia
Martin Zahorec
- 12:15 p.m. Mexico
Alfonso Martinez
- 12:30 p.m. Columbia
Nestor Sandoval
- 12:45 p.m. Ukraine
Andrii Kurkevych
- 1 p.m. ADJOURN

Perfusion Breakout Session II

Innovations in MCS

Room: Cape Cod B and C

Moderators: Kellie Schiavo and Doug Zavadil

- 11 a.m. Berlin Heart Active: Optimizing Use for
Challenging Anatomy
Aaron Dewitt

- 11:15 a.m. MCS: The Path to Explant
Christy Bosler
- 11:30 a.m. Managing Multiple MCS Platforms
Tami Rosenthal
- 11:45 a.m. Challenges of a Transport ECMO/VAD Program
Doug Zavadil
- Noon Bedside VAD Management
Carol Wittlieb-Weber
- 12:15 p.m. DCD and NRP in Pediatrics
Desiree Bonadonna
- 12:30 p.m. Panel Discussion
Faculty
- 1 p.m. ADJOURN

Nursing Oral Abstracts: Presentation and Discussion of the Selected Top 8 Nursing Abstracts: 11 a.m. – 1 p.m.

Room: Newport West

Moderators: Kathryn Dodds, Lisa Laddish and Sandra Staveski

AFTERNOON FREE TIME!

Adjourn for the day and enjoy
the Yacht & Beach Club Resort,
Disney parks or additional
academic and networking
activities to be announced.





SATURDAY, FEB. 22

Sunrise Session II

7 – 8 a.m. Heart Failure and Transplant
 Hope, Heal and Learn: Case Presentations and Panel Discussion
 Room: Salons 1 and 2
Carol Wittlieb-Weber (Lead), Christopher Almond, Angela Lorts

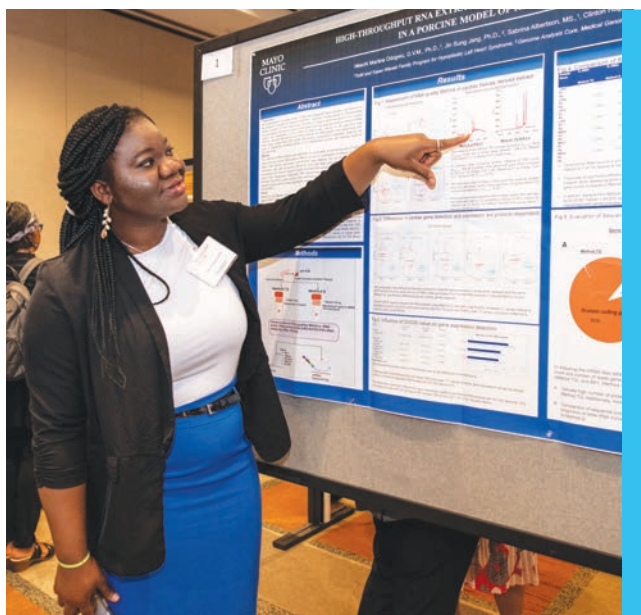
Sunrise Session III

7 – 8 a.m. Fetal Cardiology
 Hope, Heal and Learn: Case Presentations and Panel Discussion
 Room: Salons 3 and 4
Amanda Shillingford (Lead), Lindsay Freud, Shaine Morris, Shabnam Peyvandi, Wayne Tworetzky

Sunrise Session IV

7 – 8 a.m. Pediatric Cardiac Intensive Care
 Hope, Heal and Learn: Case Presentations and Panel Discussion
 Room: Grand Harbor North and South
Venkat Shankar, (Lead), Kiona Allen, Igor Areinamo, Monique Gardner

7 – 8 a.m. Nursing Breakfast Session
 A Case-based Cardiac Medication Review
 Room: Newport West
Christina Moore, Sarah Lagergren, Kathryn Dodds, TBD



Breakfast

7 a.m.

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CHILDREN'S HEART CENTER

Plenary Session V: 8 – 10 a.m.

Awards and Featured Lectures

Room: Grand Harbor North and South

- 8 a.m. Introduction of the Annual Jack Downes Critical Care and Anesthesia Lecturer
Andrew Costarino
- 8:05 a.m. Annual Jack Downes Critical Care and Anesthesia Lecture
Catherine Krawczewski
- 8:20 a.m. Introduction of the Thomas L. Spray Surgery Lecturer
Jonathan Chen
- 8:25 a.m. Annual Thomas L. Spray Surgery Lecture
Yves d'Udekem
- 8:40 a.m. Introduction of the Annual Robert J. Levy Lecturer in Pediatric and Congenital Cardiovascular Basic Science
Daniel Kelly
- 8:45 a.m. Annual Robert J. Levy Lecture in Pediatric and Congenital Cardiovascular Basic Science
Liming Pei
- 9 a.m. Introduction of the Annual William J. Rashkind Cardiology Lecturer
Joseph Rossano
- 9:05 a.m. Annual William J. Rashkind Cardiology Lecture
Sara Pasquali
- 9:20 a.m. Introduction of the Rauch Memorial Nursing Lecturer
Sherri Kubis
- 9:25 a.m. Annual Rauch Memorial Nursing Lecture
Sandra Staveski
- 9:40 am Awards for Best Abstracts
Kathryn Dodds and David Goldberg
- 10 a.m. ADJOURN

Saturday program continued on next page>



Break/Visit the Exhibits: 10 – 11 a.m.

Poster Session No. III: Asbury Hall and Salons 5 and 6

Sponsored by: **children'shealth?**

Simultaneous Breakout Sessions: 11 a.m. – 1 p.m.

The Twists and Turns of Heterotaxy Syndrome

Room: Grand Harbor North

Moderators: TBD and TBD

- 11 a.m. Genetics & Prenatal Detection
Shaine Morris
- 11:15 a.m. Understanding the Cardiac Anatomy in Heterotaxy Syndrome
Andrew Cook
- 11:30 a.m. Newborn Imaging Approaches
Lindsay Rogers
- 11:45 a.m. Complex Surgical Intra-Ventricular Baffling and “Septation” Procedures
Muhammad Nuri
- Noon Repair of Pulmonary Vein Anomalies in Heterotaxy Syndrome
Tain-Yen Hsia
- 12:15 p.m. Panel and Discussion: Case Presentations: Challenges & Solutions in Heterotaxy Syndrome
Faculty
- 1 p.m. ADJOURN

The Conversation: Lymphatics Update 2025

Case Presentations Highlighting Key Principles in Lymphatic Disorders in Pediatric and Congenital Cardiovascular Disease

Room: Grand Harbor South

Yoav Dori (Lead), Aaron DeWitt, Vibeke Hjortdal, Erin Pinto, Christopher Smith

Ambulatory Pediatric Cardiology

Room: Salons 1 and 2

Moderators: Vivek Allada and Nicholas Madsen

- 11 a.m. Activity Restrictions in Pediatric Cardiovascular Disease: Balancing Guidelines with Shared Decision Making
Jonathan Edelson

- 11:15 a.m. Ambulatory Monitors: What is Currently Available? When Does It Impact Care?
Chandra Srinivasan
- 11:30 a.m. Encouraging Exercise in the Fontan Circulation? Absolutely Yes! But How?
Elizabeth Goldmuntz
- 11:45 a.m. Pressure Restrictive VSD: When to Intervene?
Amy Schultz
- Noon Social Determinants of Health in the Ambulatory Cardiology Clinic
Carissa Baker Smith
- 12:15 p.m. Update on Kawasaki Disease 2025
Matthew Elias
- 12:30 p.m. Weight Gain in the Interstage of Single Ventricle and Social Vulnerability
Rachel Shustak
- 12:45 p.m. What Can We Learn from an Exercise Test in the Young with Repaired Congenital Heart Disease?
William Orr
- 1 p.m. ADJOURN

Pediatric and Congenital Cardiovascular Healthcare Administration II: Sharing and Learning From Each Other – A Conversation Amongst Leaders

Panel discussion on how to optimize the patient/family experience, what constitutes full-time effort, setting up a cardiac center, partnering with other cardiac centers, center rankings, engaging with philanthropy, promoting equity and diversity within leadership, and more

Room: Cape Cod B and C

Joseph Rossano (Lead), Aliessa Barnes, Antonio Cabrera, Wayne Franklin, Michael Gaies, Andrew Glatz, Patricia Hickey, Nicolas Madsen, Shelley Miyamoto, Daniel Penny, Christopher Petit

Perfusion Breakout Session III

Unique Perspectives in ECMO

Room: Salons 3 and 4

Moderators: Tami Rosenthal and Desiree Bonadonna

- 11 a.m. Contributors to Complexity of Cardiac ECMO
Desiree Bonadonna
- 11:15 a.m. Bivalrudin vs. Heparin: Is There a Clear Winner?
Jeff Amendola
- 11:30 a.m. Challenges of Managing Complex Cardiac ECMO Patients
Monique Gardner

Saturday program continued on next page>



SATURDAY, FEB. 22 *(continued)*

- 11:45 a.m. Benefits of Improving Technology for ECMO
Kellie Schiavo
- Noon ECMO Initiation: Technical and Physiologic Considerations
Gary Plancher
- 12:15 p.m. Panel Discussion
Faculty
- 1 p.m. ADJOURN

Nursing Breakout Session II

Challenging Cases – Stories of Hope and Healing

Room: Newport West

Moderators: Britt Elin Fredriksen and Amanda Seelhurst

- 11 a.m. Miracle on Miller Street: Surviving Shunt Occlusion
Shaila Bahl
- 11:20 a.m. Lessons from Lymphatics
Erin Pinto
- 11:40 a.m. Healing and Hope: Holding On
Lauren Salinas
- Noon Trauma-Informed Cardiac Care: How Broken Hearts Break People & Interventions Can Elevate Staff Well-being and Patient Outcomes
Allie Eudaly
- 12:20 p.m. Heart to Heart: Navigating Challenges in Adolescent Transplant
Carley Boyle
- 12:40 p.m. A Tale of Two Cities: 175 Years of Hope and Healing
Di Robertshaw
- 1 p.m. ADJOURN

Nursing Luncheon

1 – 2 p.m., Marina

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Plenary Session VI: 2 – 4 p.m.

Clinical Trials in Pediatric & Congenital Cardiovascular Disease

Room: Grand Harbor North and South

Moderators: Andrew Glatz and Sara Pasquali

- 2 p.m. Should We Bother with Clinical Trials?
Joseph Rossano
- 2:15 p.m. Trials in Cardiomyopathy and Heart Failure
Christopher Almond
- 2:30 p.m. Trials in Congenital Heart Surgery
Richard Ohye
- 2:45 p.m. Trials in Fontan Circulation Care
David Goldberg
- 3 p.m. Trials in Interventional Cardiology
Michael O'Byrne
- 3:15 p.m. Trials in Nursing Care
Amy Jo Lisanti
- 3:30 p.m. Are There Alternative Ways to Gain Knowledge Besides Classical Clinical Trials?
Angela Lorts
- 3:45 p.m. SOURCE: A Genetics Dataset for Single Ventricle Research
Diane Pickles
- 4 p.m. ADJOURN

4 – 5 p.m. Moderated Panel of Experts

Provider Wellness When Caring for Patients with Pediatric and Congenital Cardiovascular Disease: The Importance of “Outside of Work” and “Inside of Work” Factors, Work/Life Balance, Control, How to Decompress, Humanism, and More ...

Room: Grand Harbor North and South

Moderator: Liz Crowe

Panelists: Constantine Mavroudis, Angela Gooden, Carol Wittlieb-Weber

Wine and Wisdom Poster Session

5 – 6 p.m.: **Location TBD**

At the end of a long day, enjoy wine and beverages while a selection of outstanding abstract posters are presented and discussed. No CE Credits will be offered for this session.

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Sunrise Session IV

- 7 – 8 a.m. Here is What I Learned...**
 Hope, Heal and Learn: Presentations and Panel Discussion
 Room: Salons 3 and 4
Donald Felix, Kara Motonaga, Jennifer Lynch, Asif Padiyath
- 7 – 8 a.m. Here is What I Learned...**
 I Swear, I've Never Seen That Before!
 Hope, Heal and Learn: Case Presentations and Panel Discussion of Rare and Unusual Findings
 Room: Grand Harbor South
Mingxing Xie, Viera Ilikova
- 7 – 8 a.m. Breakfast with Our Nursing Leaders**
 From the Bedside to the Boardroom to Academia: Hope, Heal and Learn – How Can the Nursing Profession Continue to Move These Concepts Forward?
 Room: Newport West
Sherri Kubis, Lisa Laddish, Carmen Watrin, Britt Elin Fredriksen, Di Robertshaw, Sandra Staveski, Justine Calella, Patricia Hickey

Plenary Session VII: 8 a.m. – Noon

Hey, What Do You Think?

A short, pointed, didactic presentation or case-based presentation on controversial or interesting topics, with two experts offering provocative opinions on each topic
 Room: Grand Harbor South

Moderators: *TBD*

- 8 a.m. TOPIC 1: Does This Fetus Have a Coarctation of the Aorta?**
Amanda Shillingford (Discussion Navigator), Lindsay Freud, Shubika Srivastava
- 8:20 a.m. TOPIC 2: Should We Leave Anterograde Flow in this Patient with Single Ventricle?**
TBD (Discussion Navigator), Andrew Goldstone, Pirooz Eghtesady
- 8:40 a.m. TOPIC 3: Is This Child's Anatomy a Candidate for a Two-ventricular Repair?**
Anitha Parthiban (Discussion Navigator), Wayne Tworetzky, Craig Fleishman
- 9 a.m. TOPIC 4: How Shall I Manage this Newborn with Corrected TGA?**
TBD (Discussion Navigator), Meryl Cohen, Richard Ohye

- 9:20 a.m. TOPIC 5: What Medications Should My Fontan Adolescent Be On? Which Should They Avoid?**
Deepti Bhat (Discussion Navigator), David Goldberg, Rahul Rathod
- 9:40 a.m. TOPIC 6: Stuck in the Middle: How Should Nursing Manage Ethically Challenging Situations?**
Sherri Kubis (Discussion Navigator), Carmen Watrin, Lisa Laddish
- 10 a.m. Break**
- 10:10 a.m. TOPIC 7: The Premature Newborn with Complex CHD: Palliation or Repair?**
Venkat Shankar (Discussion Navigator), James O'Brien, Subhadra Shashidharan
- 10:30 a.m. TOPIC 8: Should We Repair or Replace this Mitral Valve?**
Sanket Shah (Discussion Navigator), Paul Chai, Muhammad Nuri
- 10:50 a.m. TOPIC 9: Time for VAD or Intensive Medical Therapy?**
Aaron DeWitt (Discussion Navigator), Jennifer Conway, Aliessa Barnes
- 11:10 a.m. TOPIC 10: I Suspect My Patient Has an Arteriopathy: How to Diagnose and Manage?**
TBD (Discussion Navigator), Shaine Morris, Stacey Drant
- 11:30 a.m. TOPIC 11: My Patient Has Developed Pulmonary Vein Stenosis: What Should I Do?**
TBD (Discussion Navigator), Christopher Petit, Ryan Callahan
- 11:50 a.m. ADJOURN**

SEE YOU NEXT YEAR!

Noon: Closing Remarks to the 28th Annual Pediatric & Congenital Cardiovascular Conference
Jack Rychik



FACULTY

Anne Ades

Children's Hospital of Philadelphia

Vivek Allada

Children's Hospital of Philadelphia

Kiona Allen

Lurie Children's Hospital of Chicago

Christopher Almond

*Lucile Packard Children's Hospital,
Stanford*

Jeff Amendola

*Orlando Health Arnold Palmer Hospital
for Children*

Igor Areinamo

Arnold Palmer Hospital

Shaila Bahl

Arnold Palmer Hospital

Carissa Baker Smith

Nemours Cardiac Center

Aliessa Barnes

Children's Mercy Kansas City

Lawrence Barnes

Children's Hospital of Philadelphia

Sara Baumgarten

Children's Hospital of Philadelphia

Lauren Betancourt

Arnold Palmer Hospital

Deepti Bhat

Phoenix Children's Hospital

Desiree Bonadonna

Duke University Health System

Christy Bosler

Children's Hospital of Philadelphia

Carley Boyle

Children's Hospital of Philadelphia

Julie Brothers

Children's Hospital of Philadelphia

Tasha Bryant

Texas Children's Hospital

Antonio Cabrera

Nationwide Children's Hospital

Justine Calella

Arnold Palmer Hospital

Ryan Callahan

Children's Hospital of Philadelphia

Paul Chai

Children's Healthcare of Atlanta

Jonathan Chen

Children's Hospital of Philadelphia

Meryl Cohen

Children's Hospital of Philadelphia

Mitchell Cohen

Inova L.J. Murphy Children's Hospital

Jill Combs

Children's Hospital of Philadelphia

Jennifer Conway

*Stollery Children's Hospital, University
of Alberta*

Andrew Cook

University College London

Rachael Cordina

Royal Prince Alfred Hospital

Andrew Costarino

Children's Hospital of Philadelphia

Liz Crowe

Author, Brisbane Australia

Lucian da Fonseca da Silva

UPMC Children's Hospital of Pittsburgh

William DeCamp

Arnold Palmer Hospital

Sarah de Ferranti

Boston Children's Hospital

Desiree Fiorentino

Children's Hospital of Philadelphia

Aaron DeWitt

Children's Hospital of Philadelphia

Elizabeth DeWitt

Boston Children's Hospital

Sara Dill

Arnold Palmer Hospital

Kathryn Dodds

Children's Hospital of Philadelphia

Aaron Dorfman

Children's Hospital of Philadelphia

Yoav Dori

Children's Hospital of Philadelphia

Stacey Drant

Children's Hospital of Philadelphia

Angela Duckworth

University of Pennsylvania

Yves d'Udekem

Children's National Hospital

Jonathan Edelson

Children's Hospital of Philadelphia

Pirooz Eghtesady

*St. Louis Children's, Washington
University Heart Center*

Matthew Elias

Children's Hospital of Philadelphia

Susan Etheridge

St. Luke's Children's Cardiology, Boise

Allie Eudaly

Children's Mercy Kansas City

Donald Felix

Arnold Palmer Hospital

Craig Fleishman

Arnold Palmer Hospital

Mark Fogel

Children's Hospital of Philadelphia

Wayne Franklin

Children's National Hospital

Britt Elin Fredriksen

University Hospital of Oslo

Lindsay Freud

*The Hospital for Sick Children
Toronto, Canada*

Ruth Frey

Children's Hospital of Philadelphia

Mark Friedberg

*The Hospital for Sick Children
Toronto, Canada*

Faculty continued on next page>

FACULTY *(continued)*

Alan Friedman
Yale New Haven Medical Center

Michael Gaies
Cincinnati Children's Medical Center

Monique Gardner
Children's Hospital of Philadelphia

J. William Gaynor
Children's Hospital of Philadelphia

Juliana Gebb
Children's Hospital of Philadelphia

Andrew Glatz
*St. Louis Children's, Washington
University Heart Center*

Thomas Glenn
Texas Children's Hospital

David Goldberg
Children's Hospital of Philadelphia

Elizabeth Goldmuntz
Children's Hospital of Philadelphia

Bryan Goldstein
UPMC Children's Hospital of Pittsburgh

Andrew Goldstone
Morgan Stanley Children's Hospital

Angela Gooden
Texas Children's Hospital

Yonghao Gui
*Fudan University Medical School,
Shanghai, China*

Lakshmi Gokanapudy Hahn
*St. Louis Children's, Washington
University Heart Center*

Holly Hedrick
Children's Hospital of Philadelphia

Jenna Heichel
Children's Hospital of Philadelphia

Patricia Hickey
Boston Children's Hospital

Vibeke Hjortdal
Rigshospitalet, Copenhagen

Tain-Yen Hsia
Arnold Palmer Hospital

Karen Iacono
Arnold Palmer Hospital

Viera Ilikova
*National Institute of Cardiovascular
Diseases, Bratislava, Slovakia*

Jenn Jacob-Freese
Children's Hospital of Philadelphia

Matthew Jolley
Children's Hospital of Philadelphia

Rebecca Josowitz
Children's Hospital of Philadelphia

Daniel Kelly
Children's Hospital of Philadelphia

Jeffrey Kim
Texas Children's Hospital

Yuli Kim
Children's Hospital of Philadelphia

Catherine Krawczewski
Nationwide Children's Hospital

Sherri Kubis
Children's Hospital of Philadelphia

Andrii Kurkevych
*Ukrainian Children's Cardiac Center, Kyiv,
Ukraine*

Lisa Laddish
Children's Mercy Kansas City

Sarah Lagergren
Children's Mercy Kansas City

Kelly Ann Light-McGroary
Health Management Associates

Amy Jo Lisanti
Children's Hospital of Philadelphia

Angela Lorts
Cincinnati Children's Medical Center

Nicole Lucchesi
Arnold Palmer Hospital

Jennifer Lynch
Children's Hospital of Philadelphia

Nicolas Madsen
Children's Health/UT Southwestern

Audrey Marshall
*The Hospital for Sick Children
Toronto, Canada*

Alfonso de Jesus Martinez Garcia
*Instituto Nacional de Perinatología,
Mexico City*

Cristóbal César Martínez Garcia
*Musician and Architect
Universidad Nacional Autónoma
de México*

Constantine Mavroudis
Children's Hospital of Philadelphia

Laura Mercer-Rosa
Children's Hospital of Philadelphia

Shelley Miyamoto
Children's Hospital of Colorado

Christina Moore
Arnold Palmer Hospital

Shaine Morris
Texas Children's Hospital

Kara Motonaga
*Lucile Packard Children's Hospital
Stanford*

Maryam Naim
Children's Hospital of Philadelphia

Shobha Natarajan
Children's Hospital of Philadelphia

Muhammad Nuri
Children's Hospital of Philadelphia

David Nykanen
Arnold Palmer Hospital

James O'Brien
Children's Mercy Kansas City

Michael O'Byrne
Children's Hospital of Philadelphia

Richard Ohye
C.S. Mott Children's Hospital

William Orr
*St. Louis Children's, Washington
University Heart Center*

Jennifer Osborne
Children's Hospital of Philadelphia

Asif Padiyath
Children's Hospital of Philadelphia

Anitha Parthiban
Texas Children's Hospital

Sara Pasquali
CS Mott Children's Michigan

Faculty continued on next page>

FACULTY *(continued)*

Anita Patel

*Morgan Stanley Children's Hospital
New York*

Liming Pei

Children's Hospital of Philadelphia

Daniel Penny

Texas Children's Hospital

Christopher Petit

*Morgan Stanley Children's Hospital
New York*

Shabnam Peyvandi

UCSF Benioff Children's Hospital

Diane Pickles

Additional Ventures

Erin Pinto

Children's Hospital of Philadelphia

Gary Plancher

*Orlando Health Arnold Palmer Hospital
for Children*

Benjamin Post

Private Law Practice

Michael Quartermain

Children's Hospital of Philadelphia

Geetha Raghuveer

Children's Mercy Kansas City

Rahul Rathod

Boston Children's Hospital

Chitra Ravishankar

Children's Hospital of Philadelphia

Di Robertshaw

*Great Ormond Street Hospital
for Children*

James Robinson

Parent

Lindsay Rogers

Children's Hospital of Philadelphia

Tami Rosenthal

Children's Hospital of Philadelphia

Joseph Rossano

Children's Hospital of Philadelphia

Jack Rychik

Children's Hospital of Philadelphia

Lauren Salinas

Texas Children's Hospital

Nestor Sandoval

*Fundacion Cardioinfantil, Instituto de
Cardiologia, Bogota Columbia*

Amy Schultz

Children's Hospital of Philadelphia

Mark Schwartz

Children's Hospital of Philadelphia

Amanda Seelhorst

Children's Hospital of Philadelphia

Nicholas Seivert

Children's Hospital of Philadelphia

Maully Shah

Children's Hospital of Philadelphia

Sanket Shah

Children's Mercy Kansas City

Venkat Shankar

Children's Hospital of Philadelphia

Subhadra Shashidharan

Children's Healthcare of Atlanta

Amanda Shillingford

Children's Hospital of Philadelphia

Rachel Shustak

Children's Hospital of Philadelphia

Christopher Smith

Children's Hospital of Philadelphia

Erica Sood

Nemours Cardiac Center

Susan Spinner

Children's Hospital of Philadelphia

Chandra Srinivasan

Children's Hospital of Philadelphia

Shubika Srivastava

Nemours Cardiac Center

Sandra Staveski

UCSF Benioff Children's Hospital

Zhiyun Tian

Children's Hospital of Philadelphia

Wayne Tworetzky

Boston Children's Hospital

Daniel Velez

Phoenix Children's Hospital

Adam Ware

*Primary Children's Hospital
Salt Lake City*

Carmen Watrin

Texas Children's Hospital

David Winlaw

Lurie Children's Hospital of Chicago

Carol Wittlieb-Weber

Children's Hospital of Philadelphia

Mingxing Xie

*Union Hospital, Tongji Medical College,
Wuhan, China*

Justin P.V. Zachariah

Texas Children's Hospital

Martin Zahorec

*Pediatric Cardiac Center, National
Institute of Cardiovascular Diseases,
Bratislava, Slovakia*

Doug Zavadil

Children's Mercy Kansas City

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