

CARDIOLOGY 2023

26th Annual Update on Pediatric and
Congenital Cardiovascular Disease



FEB. 23 – 26, 2023

The Circulation:

What Makes the Blood Go 'Round in
Pediatric and Congenital Heart Disease?

Learn more at chop.edu/cardiology2023

Wyndham Grand Rio Mar
Puerto Rico Golf and Beach Resort
Río Grande, Puerto Rico



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



WELCOME



Dear Colleagues & Friends,

Our specialty of pediatric and congenital cardiovascular disease is unique in many ways. Within our discipline, we are charged with serving myriad conditions with widely varying anatomies and physiologies at different cycles of time ranging from fetal to mature adult life. At each time frame, each condition is its own entity, demanding a unique fund of knowledge and wisdom specific to that stage of life. This can be a challenge. Maintaining the best outcomes for our patients throughout the lifespan can only be achieved through continuous update and education. Our community must strive to avail itself of the educational resources necessary to maintain and advance the skills and knowledge base required to provide the best outcomes possible. Providing such a communal, multicenter and multispecialty collaborative, premier resource for healthcare providers and scientists interested in pediatric and congenital cardiovascular disease has been the driving mission of our conference for over 25 years!

And so, it is with this concept in mind that we present the 26th Annual Update on Pediatric and Congenital Cardiovascular Disease. Our theme is: *The Circulation: What Makes the Blood Go 'Round in Pediatric & Congenital Heart Disease*. From the basic principles of William Harvey to the iconoclastic innovations of Francis Fontan and other pioneers, concepts of the human “circulation” are intrinsically fundamental to our practice. The course faculty will present multiple talks in plenary sessions, as well as presentations in subspecialty breakout sessions and a series of moderated case-based panel conversations, covering many areas and topics related to the comprehensive care of the unborn, neonate, child, teen and young adult with cardiovascular disease — all within the context of the circulation. Subject material will cover the right and left ventricles, pulmonary and systemic circulations, characterizing their abnormalities, failures and treatment strategies, as well as advanced therapies of support.

We are extremely pleased to welcome you to this year’s collaborative, multidisciplinary conference as we have chosen a unique, marquee setting on the island of Puerto Rico. This beautiful venue will provide the ultimate opportunity for learning, sharing, networking and professional socializing. We promise you will leave refreshed and renewed, armed with the tools necessary to best offer a normal quality and duration of life for our patients with pediatric and congenital cardiovascular disease.

As one of the world’s largest and most prestigious conferences focused on pediatric and congenital cardiovascular disease, we offer a warm welcome to our many returning participants and greetings to new friends for joining us.

Wishing you all a meaningful and enjoyable educational experience!

Best wishes,

Jack Rychik, for the Organizing Committee, Cardiology 2023

GENERAL INFORMATION

Topics will include:

- Unique aspects and concepts of the circulation in pediatric and congenital cardiovascular disease throughout the lifespan from fetus to adult
- The spectrum of cardiovascular conditions uniquely affecting the right heart
- The spectrum of cardiovascular conditions uniquely affecting the left heart
- The pulmonary circulation and its role in congenital and acquired conditions
- The unique aspects of the Fontan circulation and its manifestations
- Individualization and variability of treatment strategies for various conditions with case-based presentations and opportunities for audience participation and discussion
- Optimal techniques and strategies for characterizing form and function of the circulation
- Update on advanced cardiac therapies for supporting the failing circulation
- New understandings and novel treatments of the lymphatic circulation
- Myocardial conditions impacting the circulation in the young
- Factors outside of the heart that impact the circulation — and much, much more!



Course Objectives 2023

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

- Outline the factors and variables that uniquely influence the circulation in 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 the right side of the heart
- Explain the concepts and new strategies of care and practice for conditions unique to the left side of the heart
- Review the conditions specific to the pulmonary circulation and their strategies of care in patients with pediatric and congenital cardiovascular disease
- Recognize the unique challenges of the single ventricle and Fontan circulation, 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 circulation in the young
- Outline the most recent developments in diagnosis and treatment of lymphatic conditions in the young
- Describe the many conditions affecting myocardial pump function in the young
- Discuss the latest updates on challenges and opportunities in providing pediatric and congenital cardiovascular care in Latin America
- Recall the underlying principles and best practices for postoperative care by nurses and other front-line providers for the neonate with congenital heart disease

Registration

The conference will be held Thursday, Feb. 23 – Sunday, Feb. 26, 2023, at the **Wyndham Grand Río Mar Puerto Rico Golf and Beach Resort, Río Grande, Puerto Rico**. Registration is Thursday, Feb. 23 from 10 a.m. to 6:30 p.m.

Register online: chop.cloud-cme.com

Course Fees

The registration fee 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 conference reception.

ACCME Accreditation Statement

Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement

Children's Hospital of Philadelphia designates this live activity for a maximum of 23 *AMA PRA Category 1 credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Nursing Continuing Professional Development Approved Provider Statement

Children's Hospital of Philadelphia is approved as a provider of nursing continuing professional development by the Pennsylvania State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

Perfusion Accreditation Statement

An application for CEU Category 1 hours 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 Feb. 1, 2023. Refunds will be issued for the amount of registration less a \$100 service charge.

Hotel Information

Wyndham Grand Rio Mar Puerto Rico

Room rate is \$339 per room, per night based on single and double occupancy. There is a maximum occupancy of four people per room, per territory law. Rollaway beds are available upon request and availability at a rate of \$25 each per day. Rates quoted are in U.S. dollars for Run-of-House room category. Complimentary Wifi is provided in guestrooms and lobby area. Once the room block is full, there will be more rooms available at the rate of \$499 plus taxes.

A block of rooms has been reserved at the Wyndham Grand Rio Mar Puerto Rico Golf & Beach Resort, Puerto Rico. Participants must reserve their own hotel accommodations by calling the toll-free number: 855-566-2851. For the reduced conference rate, mention the CHOP Cardiology 2023 Conference when making your reservation. Sleeping rooms are limited, so please reserve your room as soon as possible.

Taxes/Gratuities/Service Charge/Resort Fee

All Guestroom rates are subject to and do not include the following:

- 11% government tax
- \$40 daily flat Resort fees; Resort fee is subject to tax which is currently 11%
- \$2.50 housekeeping gratuity per room per night, plus 11.5% tax
- \$7 one-time Porterage fee per person, plus 11.5% tax
- Resort fee includes:
 - Long-distance phone access (toll-free, credit card and collect calls)
 - Unlimited local calls (town of Rio Grande only)
 - Internal Resort shuttle transportation
 - Unlimited use of fitness center
 - Daily local English newspaper
 - Use of in-room safe
 - Unlimited driving range golf balls
 - Recreational amenities, daily guest activities
 - Beach and pool towels, lounge chairs and umbrellas
 - Beach attendant service
 - 2 complimentary bottled waters in room with daily replenishment
 - In-room Puerto Rican coffee and tea presentation
 - Luggage storage for early arrivals or late departures
 - Use of computers for printing boarding passes

CONFERENCE PROGRAM

♥ THURSDAY, FEB. 23

Opening Plenary Session: 4 – 6 p.m.

Moderators: Jonathan Chen and Joseph Rossano

The Circulatory System: What Makes the Blood Go 'Round?

- 4 p.m. Welcome and Introduction to our Conference
Jack Rychik
- 4:15 p.m. A History of Discovery: Our Evolution of Understanding of the Heart and Circulation — from Harvey to Today
Joseph Rossano
- 4:30 p.m. Innovators and Innovations That Changed Our World: Pioneers and Discovery in Congenital Cardiovascular Disease
Meryl Cohen
- 4:45 p.m. Why a Circulation? The Purpose of the Human Cardiovascular System
Daniel Penny
- 5 p.m. What Makes the Circulation Work? Molecular Perspectives from a Pediatric Cardiologist
Shelley Miyamoto
- 5:15 p.m. From Prenatal Dependency to Independence: The Wonder of the Circulatory Transition from Fetal to Newborn Life
Shabnam Peyvandi
- 5:30 p.m. The Gateways of the Circulation: How Heart Valves Function and How Best to Understand Them
Matthew Jolley
- 5:45 p.m. The Principles of Physics That Impact Congenital Heart Disease: Can We Take Advantage of Nature and Turn Things in Our Favor?
William DeCampi
- 6 p.m. ADJOURN

6 – 8 p.m. Opening Reception

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Sunrise Morning Coffee & Talk Sessions

7 – 8 a.m. **Reading the ECG: Clues, Tips and Pearls**
Mitchell Cohen and Maully Shah

Plenary Session II: 8 – 10 a.m.

The Right Side of the Heart

Moderators: Laura Mercer-Rosa and Daniel Velez

8 a.m. Biology, Form and Function of the Right Ventricle
Sushma Reddy

8:15 a.m. Determining Adequacy and Viability of the Right Side of the Heart in Congenital Heart Disease
Michael Quartermain

8:30 a.m. The Terrors of the Tricuspid Valve: Care and Management of the Neonate with Ebstein's Anomaly or Severe Tricuspid Valve Dysplasia
Ricardo Garcia

8:45 a.m. Strategies and Outcomes for Tetralogy of Fallot Repair in Middle Income Countries
Nestor Sandoval

9 a.m. Innovations in Creating a Right Ventricle to Pulmonary Artery Pathway
David Winlaw

9:15 a.m. The Stressed Right Ventricle in Repaired Tetralogy of Fallot
Laura Mercer-Rosa

9:30 a.m. Catheter-based Strategies to Creating Valve Competence on the Right Side of the Heart
Bryan Goldstein

9:45 a.m. Maintaining the Circulation Long Term When the Systemic Ventricle Is a Morphological Right Ventricle
Carla Rodriguez

10 a.m. ADJOURN

Friday, Feb. 24

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

Nursing Breakout 1 – Oral presentation of the top eight nursing abstracts

Characterizing Form and Function of the Circulation for Decision Making

Moderators: Meryl Cohen and Stephen Paridon

11 a.m. Advanced ECHO Techniques: Utility in Critical Decision Making
Laura Mercer-Rosa

11:15 a.m. Prenatal Cardiovascular Imaging
Jack Rychik

11:30 a.m. Advanced Cardiac MRI Techniques: Utility in Critical Decision Making
Mark Fogel

11:45 am Advanced Cardiac CT Imaging: Utility in Critical Decision Making?
David Biko

Noon Multimodality Imaging for Comprehensive Characterization of the Circulation
Matthew Jolley

12:15 p.m. Understanding Hemodynamics: Optimizing the Cardiac Catheterization Laboratory in Complex Conditions
Bryan Goldstein

12:30 p.m. Utilizing Exercise Testing for Critical Decision Making
Stephen Paridon

12:45 p.m. Panel Discussion – Q & A
Faculty

1 P.M. ADJOURN

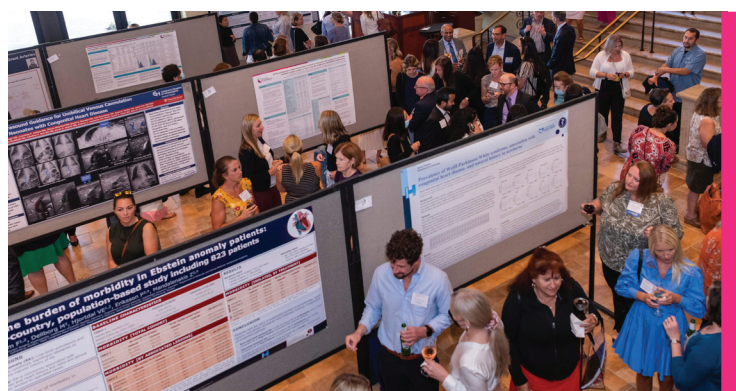
Friday program continued on next page>

Break/Visit the Exhibits

10 – 11 a.m.

Poster Session No. 1

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Advanced Cardiac Therapies to Support the Failing Circulation

Moderators: Aliessa Barnes and Joseph Rossano

- 11 a.m. Medications for the Failing Heart: What's New for the Pediatric Patient?
Joseph Rossano
- 11:15 a.m. Maintaining the Circulatory System When in a Critical State: Intensive Care Unit Management for a Failing Circulation
Antonio Cabrera
- 11:30 a.m. Deciding Who Is a Candidate and When to Initiate Mechanical Circulatory Support
Carol Wittlieb-Weber
- 11:45 a.m. Strategies for Mechanical Support: What's Available? Choosing the Right Technology for the Right Condition
Constantine Mavroudis
- Noon Transitioning the Patient with Mechanical Support from the Operating Room to the Intensive Care Unit: Pearls and Pitfalls
Richard Melchior
- 12:15 p.m. Challenges of Sustaining "Long-term" Mechanical Circulatory Support in the Young
Nancy Ghanayem
- 12:30 p.m. Panel Discussion – Q & A
Faculty
- 1 P.M. ADJOURN

Outdoor Luncheon

1 – 2 p.m.

Sponsored by



Moderated Panel of Experts – The Surgeon's Salon 2 – 3 p.m.

A Conversation Amongst Pediatric Cardiac Surgeons on Styles, Strategies, Successes and Stressors in Pediatric & Congenital Cardiovascular Surgery

Moderator: Jonathan Chen

Discussants: Sitaram Emani, Victor Morell, James O'Brien, Christian Kreutzer and David Winlaw

The Top Abstracts: Oral Presentations 3 – 4 p.m.

Moderators: Shelley Miyamoto and J. William Gaynor

Plenary Session III: 4 – 6 p.m.

The Left Side of the Heart

Moderators: Shaine Morris and Paul Chai

- 4 p.m. Biology, Form and Function of the Left Ventricle
Daniel Kelly
- 4:15 p.m. Determining Adequacy and Viability of the Left Ventricle
Meryl Cohen
- 4:30 p.m. Rehabilitating or "Growing" the Left Ventricle: Promise and Pitfalls
Sitaram Emani
- 4:45 p.m. Getting the Correct Vessel onto the Left Ventricle: Techniques for Optimizing Aortic Relocation in Complex Conotruncal Anomalies
Victor Morell
- 5 p.m. Aortic Valve Disease: Catheter-based Strategies for Now and in the Future
Christopher Petit
- 5:15 p.m. Surgical Options for Aortic Valve Insufficiency in the Young
Andrew Goldstone
- 5:30 p.m. The Aortopathies: How They Manifest in the Young and Progress with Time
Shaine Morris
- 5:45 p.m. Q & A
Faculty
- 6 p.m. ADJOURN

Sunrise Morning Coffee & Talk Sessions

- 7 – 8 a.m. CASE-BASED PRESENTATIONS
Case Discussions of CHD, Management Challenges and Lessons Learned
Moderator: Chitra Ravishankar
Discussants: Monique Gardner, Andrew Goldstone and Manish Aggarwal
- 7 – 8 a.m. Pacer Workshop: Everything You Wanted to Know About Pacemakers but Were Afraid to Ask
Mitchell Cohen

Plenary Session IV: 8 – 10 a.m.

The Pulmonary Circulation in Pediatric & Congenital Heart Disease

Moderators: Catherine Avitabile and Andrew Glatz

- 8 a.m. Biology, Form and Function of the Pulmonary Vasculature
David Frank
- 8:15 a.m. The Clinical Spectrum of Pulmonary Arterial Hypertension: Who Has It? Is It the Same Disease in All?
Catherine Avitabile
- 8:30 a.m. The Spectrum of Treatment Strategies for Pulmonary Arterial Hypertension in the Young
Manish Aggarwal
- 8:45 a.m. State-of-the-art Treatment of a Patent Ductus Arteriosus in the Premature Infant
Francisco Diaz
- 9 a.m. How Best to Augment Pulmonary Blood Flow in the Newborn with Congenital Pulmonary Obstruction?
Andrew Glatz
- 9:15 a.m. Surgical Techniques for Pulmonary Arterial Rehabilitation in Pulmonary Atresia with Aorto-Pulmonary Collaterals
Muhammad Nuri
- 9:30 a.m. Is Pulmonary Vein Stenosis a Treatable Disease?
Ryan Callahan
- 9:45 a.m. Does Pulmonary Vasodilation Impact the Fontan Circulation?
David Goldberg
- 10 a.m. ADJOURN

Break/Visit the Exhibits

10 – 11 a.m.

Poster Session No. 2

Sponsored by

The Heart Center



Saturday, Feb. 25

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

Nursing Breakout 2: Case-based discussions of CHD and management challenges

Faculty: Kathryn Dodds, Anna Gay, Lynne Ha, Mary Hoang, Sherri Kubis, Jarae Payne, Jose Ramos and Stacy Reynolds

The Lymphatic Circulation: New Understandings and Novel Treatments

Moderators: Vibeke Hjortdal and Yoav Dori

- 11 a.m. Biology, Form and Function of the Lymphatic Vasculature
Vibeke Hjortdal
- 11:15 a.m. Magnetic Resonance Imaging for Visualization of the Lymphatic Circulation
David Biko
- 11:30 a.m. Diagnostic Innovations to Accurately Map the Lymphatic System
Chris Smith
- 11:45 a.m. Surgical Strategies to Treat Lymphatic Insufficiency in Congenital Heart Disease
Christian Kreutzer
- Noon Building a Lymphatics Program: The Team Approach
Erin Pinto
- 12:15 p.m. What Are the Next Set of Challenges to Overcome in Caring for Lymphatic Conditions?
Yoav Dori
- 12:30 p.m. Case-based Lessons in Lymphatic Conditions
David Biko, Yoav Dori, Vibeke Hjortdal, Christian Kreutzer and Chris Smith
- 1 P.M. ADJOURN

The "Pump": Myocardial Conditions Affecting the Circulation in the Young

Moderators: Kimberly Lin and Carol Wittlieb-Weber

- 11 am Genetic Conditions Influencing Myocardia Function
Shaine Morris
- 11:15 a.m. Myocardial Conditions in Prenatal Life
Shabnam Peyvandi
- 11:30 a.m. Dilated Cardiomyopathy
Aliessa Barnes
- 11:45 a.m. Arrhythmogenic Cardiomyopathies
Mitchell Cohen
- Noon Hypertrophic Cardiomyopathy
Kimberly Lin
- 12:15 p.m. Cancer Therapy and Its Impact on the Heart
Shelley Miyamoto
- 12:30 p.m. Anesthetic and Supportive Care Considerations When There Is a Fragile Myocardium
Andrew Costarino
- 12:45 p.m. Panel Discussion Q & A
Faculty
- 1 P.M. ADJOURN

Adjourn for the day! Visit Old San Juan, El Yunque Rain Forest or Enjoy the Beautiful Beaches of Rio Grand

Sunrise Morning Coffee & Talk Sessions

7 – 8 a.m. Case-based Discussions of Fetal Cardiovascular Disease, Management Challenges and Lessons Learned
Moderator: Jack Rychik
Discussants: Keila Lopez, Shabnam Peyvandi and Shaine Morris

Plenary Session V: 8 – 10 a.m. Awards and Featured Lectures

2023 Featured Lectures

8 a.m. Introduction of the Annual Jack Downes Lecturer
Andrew Costarino

8:05 a.m. Annual Jack Downes Lecture
Nancy Ghanayem

8:20 a.m. Introduction of the Inaugural Thomas L. Spray Lecturer in Pediatric & Congenital Cardiovascular Surgery
Jonathan Chen

8:25 a.m. 1st Annual Spray Lecture in Pediatric & Congenital Cardiovascular Surgery
James O'Brien

8:40 a.m. Introduction of the Rauch Memorial Lecturer
Sherri Kubis

8:45 a.m. Annual Rauch Memorial Lecture
Ruth Frey

9 a.m. Introduction of the Annual Pediatric and Congenital Cardiovascular Basic Science Lecturer
Joseph Rossano

9:05 a.m. Annual Pediatric and Congenital Cardiovascular Basic Science Lecture
Daniel Kelly

9:20 a.m. Introduction of the Annual William J. Rashkind Lecturer
Joseph Rossano

9:25 a.m. Annual William J. Rashkind Lecture
Jacqueline Kreutzer

9:40 a.m. Awards for Best Abstracts
Kathryn Dodds and David Goldberg

Break/Visit the Exhibits

10 – 11 a.m.

Poster Session No. 3

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Sunday, Feb. 26

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

Nursing Breakout 3 – Cardiac Medications Review:
Vasoactive Medications, Sedation/Pain Management, Heart Failure Management, Anticoagulation, Arrhythmia Management, Pulmonary Hypertension Management

Faculty: Lisa Laddish, Kathryn Dodds, Anna Gay, Lynne Ha, Jarar Payne, Mary Hoang and Stacy Reynolds

In Support of the Circulation: Factors Impacting What Makes the Blood Go 'Round

Moderators: Keila Lopez and Chitra Ravishankar

11 a.m. Cardiac Remodeling and Secretion of Heart Derived Hormones that Communicate with other Organs
Liming Pei

11:15 a.m. Nutrition and Growth in Congenital Heart Disease
Chitra Ravishankar

11:30 a.m. When it's More than Just the Heart: Cardiac and Non-Cardiac Organ Transplantation
William J. Dreyer

11:45 a.m. Exercise Training to Improve CHD Outcomes: What Do We Know? What Needs to be Discovered?
Sasha Opatowsky

Noon Patient & Family Emotional and Behavioral Health in CHD
Nadine Kasparian

12:15 p.m. Social Factors Influencing Circulatory Health
Keila Lopez

12:30 p.m. Healthcare Provider Wellness: Physician Heal Thyself!
Carol Wittlieb-Weber

12:45 p.m. Panel Discussion Q & A
Faculty

1 P.M. ADJOURN

Challenges & Concerns in Pediatric & Congenital Heart Care in Latin America: Spanish Language Session

Spanish Language Session Focused on Challenges and Issues of Concern to the Pediatric Heart Communities of Latin America

Moderator: Enrique Carrion

11 a.m. Prenatal Cardiology
Roberto Canessa

11:20 a.m. Hypertension in the Young
Janice Crespo

11:40 a.m. Challenges and Opportunities Related to Neonatal Cardiac Surgery in Mexico
Alexis Palacios

Noon Adult Congenital Heart Disease
Carla Rodriguez

12:20 p.m. After 50 Years of the Fontan Operation – Is It Possible Everywhere?
Nestor Sandoval

12:40 p.m. Panel Discussion Q & A
Faculty

1 P.M. ADJOURN

Nursing Luncheon

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Boxed Lunch for non-Nursing Attendees

2 – 3 p.m. Moderated Panel: Case-based Discussion of Management Challenges and Lessons Learned in Single Ventricle and Fontan Circulation
Moderator: David Goldberg
Discussants: Daniel Velez, Sasha Opatowsky, Bryan Goldstein and Nadine Kasparian

Plenary Session VI: 3 – 5 p.m.

Battling Against Nature: Sustaining a Single Ventricle Circulation Throughout the Lifespan
Moderators: Kiona Allen and J. William Gaynor

- 3 p.m. Prenatal Life with Single Ventricle: Is This a Golden Opportunity?
Jack Rychik
- 3:15 p.m. Individualizing Initial Management for the Newborn with HLHS
Jonathan Chen
- 3:30 p.m. The Successful and Dramatic Reduction in Inter-stage Mortality: How Did We Do This?
Monique Gardner
- 3:45 p.m. Considerations and Challenges for Single Ventricle Palliation at Altitude
Alexis Palacios
- 4 p.m. Understanding the Wide Variability in Outcomes for the Individual with a Fontan Circulation
Kiona Allen
- 4:15 p.m. Innovative Molecular Analysis Offers Insights into Fontan Associated Liver Disease
Liming Pei
- 4:30 p.m. Keeping the Beat When There Is Only One Pump: Controversies in Arrhythmia Management in the Fontan Circulation
Maully Shah
- 4:45 p.m. Transplantation in Single Ventricle: Timing and Strategies for Success
Kimberly Lin
- 5 p.m. ADJOURN



“ Maintaining the best outcomes for our patients throughout the lifespan can only be achieved through continuous update and education. Our community must strive to avail itself of the educational resources necessary to maintain and advance the skills and knowledge base required to provide the best outcomes possible. ”

SEE YOU NEXT YEAR!

FACULTY

Faculty

Manish Aggarwal
St. Louis Children's Hospital

Kiona Allen
Chicago Lurie Children's Hospital

Catherine Avitabile
Children's Hospital of Philadelphia

Aliessa Barnes
Children's Mercy Kansas City

David Biko
Children's Hospital of Philadelphia

Antonio Cabrera
Primary Children's Hospital Utah

Ryan Callahan
Children's Hospital of Philadelphia

Roberto Canessa
Montivideo, Uruguay

Enrique Carrion
University of Puerto Rico, San Juan

Paul Chai
Children's Healthcare of Atlanta

Jonathan Chen
Children's Hospital of Philadelphia

Meryl Cohen
Children's Hospital of Philadelphia

Mitchell Cohen
Inova Children's Hospital Fairfax

Andrew Costarino
Children's Hospital of Philadelphia

Janice Crespo
University of Puerto Rico, San Juan

William DeCampi
Arnold Palmer Hospital Orlando

Francisco Diaz
University of Puerto Rico, San Juan

Kathryn Dodds
Children's Hospital of Philadelphia

Yoav Dori
Children's Hospital of Philadelphia

William J. Dreyer
Texas Children's Hospital

Sitaram Emani
Boston Children's Hospital

Mark Fogel
Children's Hospital of Philadelphia

David Frank
Children's Hospital of Philadelphia

Ruth Frey
Children's Hospital of Philadelphia

Ricardo Garcia
University of Puerto Rico, San Juan

Monique Gardner
Children's Hospital of Philadelphia

Anna Gay
Children's Healthcare of Atlanta

J. William Gaynor
Children's Hospital of Philadelphia

Nancy Ghanayem
University of Chicago Comer Children's Hospital

Andrew Glatz
St. Louis Children's Hospital

David Goldberg
Children's Hospital of Philadelphia

Bryan Goldstein
Children's Hospital of Pittsburgh

Andrew Goldstone
Morgan Stanley Children's Hospital New York

Lynne Ha
Children's Hospital of Philadelphia

Vibeke Hjortdal
Rigshospitalet Copenhagen University

Mary Hoang
Texas Children's Hospital

Matthew Jolley
Children's Hospital of Philadelphia

Nadine Kasparian
Cincinnati Children's Medical Center

Daniel Kelly
Children's Hospital of Philadelphia

Christian Kreutzer
Hospital Universitario Austral, Buenos Aires, Argentina

Jacqueline Kreutzer
Children's Hospital of Pittsburgh

Sherri Kubis
Children's Hospital of Philadelphia

Lisa Laddish
Children's Mercy Kansas City

Kimberly Lin
Children's Hospital of Philadelphia

Keila Lopez
Texas Children's Hospital

Constantine Mavroudis
Children's Hospital of Philadelphia

Richard Melchior
Children's Hospital of Philadelphia

Laura Mercer-Rosa
Children's Hospital of Philadelphia

Shelley Miyamoto
Children's Hospital Colorado

Victor Morell
Children's Hospital of Pittsburgh

Shaine Morris
Texas Children's Hospital

Muhammad Nuri
Children's Hospital of Philadelphia

James O'Brien
Children's Mercy Kansas City

Sasha Opatowsky
Cincinnati Children's Medical Center

Alexis Palacios
Instituto Nacional de Pediatría, Mexico City, Mexico

Stephen Paridon
Children's Hospital of Philadelphia

Jarae Payne
Children's Hospital of Philadelphia

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

Erin Pinto
Children's Hospital of Philadelphia

Michael Quartermain
Children's Hospital of Philadelphia

Jose Ramos
University of Puerto Rico, San Juan

Chitra Ravishankar
Children's Hospital of Philadelphia

Sushma Reddy
Lucille Packard Children's Hospital Stanford

Stacy Reynolds
Children's Mercy Kansas City

Carla Rodriguez
Centro Cardiovascular de Puerto Rico y el Caribe

Joseph Rossano
Children's Hospital of Philadelphia

Jack Rychik (Course Director)
Children's Hospital of Philadelphia

Nestor Sandoval
Fundacion Cardioinfantil, Instituto de Cardiologia, Bogota Columbia

Maully Shah
Children's Hospital of Philadelphia

Chris Smith
Children's Hospital of Philadelphia

Daniel Velez
Phoenix Children's Hospital

David Winlaw
Cincinnati Children's Medical Center

Carol Wittlieb-Weber
Children's Hospital of Philadelphia

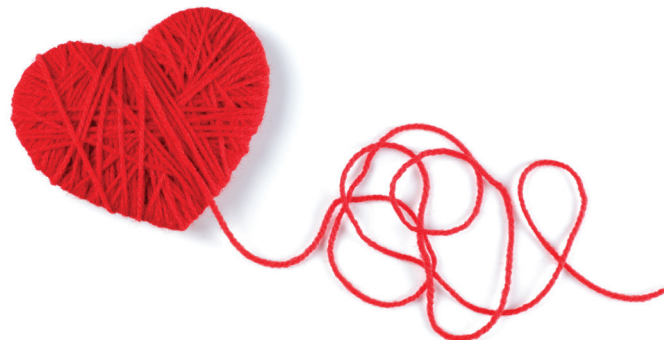


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