

CARDIOLOGY 2022

25th

Annual Update on
Pediatric and Congenital
Cardiovascular Disease

THE NEW NORMAL:

Transformation in Pediatric
and Congenital Heart Care



NEW DATES!
AUG. 30 – SEPT. 3, 2022

Hyatt Regency, Huntington Beach, Calif.

Learn more at
chop.edu/cardiology2022



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

WELCOME



Dear Colleagues & Friends,

We are currently living through eventful and trying times. As healthcare providers, maintaining focus on our own health and the health of our loved ones is essential, while in parallel we desperately strive to give our patients the strength, support and optimal care they need. Never has there been a time as much as now for our community to avail itself of the resources necessary to maintain and advance the skills and knowledge base required to provide the best outcomes possible for individuals with pediatric and congenital cardiovascular conditions.

It is with this in mind that we present our conference, the **25th Annual Update on Pediatric and Congenital Cardiovascular Disease**. Our theme this year is ***The New Normal: Transformation in Pediatric & Congenital Heart Disease***. The course faculty will present multiple talks in plenary sessions, as well as presentations in subspecialty breakout sessions and a series of moderated panel conversations, covering all areas and topics related to the comprehensive care of the unborn, neonate, child, teen and young adult with cardiovascular disease. Through **learning, sharing, networking and professional socializing**, the goals of our educational conference are to give healthcare providers the tools necessary, within the new world we live in, to best deliver a normal quality and duration of life for our patients with pediatric and congenital cardiovascular disease.

We are extremely pleased to welcome you to this year's collaborative, multidisciplinary conference.

A warm welcome for joining us on our very special 25th anniversary year!

Best wishes and enjoy!

Jack Rychik, for the Organizing Committee, Cardiology 2022

GENERAL INFORMATION

Topics will include:

- Restoration and transformation of practice in the pandemic era
- Perspectives on pediatric and congenital heart care from around the globe
- Updates on innovative and novel approaches to the practice of pediatric and congenital heart care
- Individualization and variability of treatment strategies unique to the conditions at hand with case-based presentations and opportunities for audience participation and discussion
- Providing optimal surveillance for a variety of cardiovascular conditions
- Conversations on living with congenital heart disease, the social determinants of health and mental health concerns in our patients
- Focus on specific topics such as hypertrophic cardiomyopathy, challenges of the Fontan circulation, surgical challenges in CHD, fetal heart care — and more

Other benefits of attending include:

- Special dedicated sessions for nursing, perfusion specialists and healthcare administrators
- Preconference sessions on the value of 3D echocardiography in valve assessment and other aspects of congenital heart disease, academic skills for the trainee and junior faculty, and an intense CHD primer and review course for nurses and frontline providers
- Opportunities to network and enjoy southern California's attractions: Disneyland, Knott's Berry Farm, whale watching, beach activities and more
- 5K Heart Fun Run and Yoga for Your Heart on the beach
- More than 30 credits for physicians, nurses and perfusion specialists

CALL FOR ABSTRACTS

NEW Abstract Submission Deadline:
Thursday, June 30, 2022 (11:59 p.m. EST)

NEW Notification of Acceptance:
Monday, July 11, 2022

NEW Oral Abstract Presentations:
Wednesday, Aug. 31, 2022

NEW Poster Abstract Presentations:
Wednesday, Aug. 31 – Friday, Sept. 2, 2022

Course Objectives for Cardiology 2022

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

- Describe the science and knowledge base of information that supports clinical practice for the patient with pediatric and congenital cardiovascular disease
- Outline some of the latest innovations and their potential for changing care in pediatric and congenital cardiovascular disease
- Recall the concepts and new strategies of care and practice for pediatric and congenital cardiovascular disease unique to the current and post-pandemic era
- Explain the emerging importance and influence of social determinants of health on outcomes
- Recognize the importance of psychological wellness and mental health challenges in patients with congenital heart disease
- Review the latest diagnostic and treatment strategies for the young with cardiomyopathy
- Describe management and surgical outcomes for complex congenital heart disease
- Explain the principles and latest practice of critical heart disease detected in fetal life
- Describe the latest methods for conducting clinical trials and investigational efforts in our field
- Discuss the latest updates on optimal care models for the patient on the cardiology acute care unit
- Comprehend the latest models for the ambulatory care of patients with congenital heart disease
- Identify the newest concepts in anesthesia and critical care for the pediatric and congenital cardiovascular patient
- Discuss the latest techniques and developments in the field of pediatric cardiovascular perfusion
- Recall the underlying principles and best practices for postoperative care by nurses and other front-line providers for the neonate with congenital heart disease
- Explain the challenges and solutions in caring for the patient with a Fontan circulation

Register online: chop.cloud-cme.com

Registration

The conference will be held Tuesday, Aug. 30, through Saturday, Sept. 3, 2022, at the **Hyatt Regency Huntington Beach Resort and Spa**, Huntington Beach, Calif. Registration is Tuesday, Aug. 30, from 6:30 a.m. to 6 p.m., and Wednesday, Aug. 31, from 6:30 a.m. to 6 p.m.

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 conference gala reception.

Full Conference: Tuesday, Aug. 30, 4 p.m. to Saturday, Sept. 3, noon

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.

No. 1: 3D Echocardiography Workshop: Growing Importance in Valve Assessment and Other Aspects of Congenital Heart Disease..... \$150

No. 2: Academics in Pediatric Cardiology: Key Skills and Tips for the Trainee or Junior Faculty (and, honestly, everyone else as well!) \$50

No. 3: A Primer and Review: Congenital Heart Disease and Postoperative Management: Comprehensive Review for Nurses and Front-line Providers..... \$150

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 38.5 AMA PRA Category 1 credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

AMA PRA Category 1 credits™ are designated as follows:

Tuesday, Aug. 30, 2022

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

No. 1: 3D Echocardiography Workshop: Growing Importance in Valve Assessment & Other Aspects of Congenital Heart Disease = 4.25

No. 2: Academics in Pediatric Cardiology: Key Skills and Tips for the Trainee or Junior Faculty (and, honestly, everyone else as well!) = 2.5

No. 3: A Primer and Review: Congenital Heart Disease and Postoperative Management: Comprehensive Review for Nurses and Front-line Providers = 7.0

Main Conference: Tuesday, Aug. 30, 4 p.m. to Saturday, Sept. 3, 2022, noon

Total AMA PRA Category 1 credits™ = 31.5



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 Friday, Aug. 19, 2022. Refunds will be issued for the amount of registration less a \$100 service charge.

Hotel Information

A block of rooms has been reserved at the Hyatt Regency Huntington Beach Resort and Spa in Huntington Beach, Calif. The group rate is \$299 single or double occupancy and \$324 triple occupancy plus a 14% room tax, 7% sales tax and 3.33% HB assessment tax. Participants must reserve their own hotel accommodations by calling 714-698-1234.

For the reduced conference rate, mention the CHOP Pediatric Cardiology Conference when making your reservation. This rate will only be available until Friday, Aug. 5, 2022. Reservations made after Aug. 5 will be accepted on space and rate availability.



PRECONFERENCE PROGRAM

♡ TUESDAY, AUG. 30

Optional Preconference No. 1

3D Echocardiography Workshop: Growing Importance in Valve Assessment and Other Aspects of Congenital Heart Disease

Moderator: Michael Quartermain

- 8 a.m. Introduction to the Course: Aims and Objectives and 3D Lessons Learned from a Valve Center Perspective
Michael Quartermain
- 8:20 a.m. 3D Echo Evaluation of the Common Atrioventricular Valve
Lindsay Rogers
- 8:40 a.m. 3D Echo Assessment of the Systemic Atrioventricular Valve in Single Ventricle
Matthew Jolley
- 9 a.m. 3D Echocardiography in Evaluation of Conotruncal Anomalies
Pierre Wong
- 9:20 a.m. Quantitative 3D Echocardiography for Accurate Assessment of the Cardiac Chambers and Degree of AVV Regurgitation
Doaa Aly
- 9:40 a.m. Multimodality 3D/4D Imaging (MRI, CT, 3D Echocardiography) for Complex CHD Evaluation
Ray Lorenzoni
- 10 a.m. Break
- 10:15 a.m. 3D Modeling and Printing of the RV Outflow Tract
Sanket Shah
- 10:35 a.m. Three Dimensional Imaging for Guidance and Planning of Interventions
Pierre Wong and Matthew Jolley
- 10:55 a.m. How I Use 3D Echo to Plan the Surgery
Muhammad Nuri
- 11:15 a.m. Live Imaging: Watch How It's Done
3D Workshop Faculty: Matthew Jolley, Michael Quartermain, Lindsay Rogers, Yan Wang and Pierre Wong
- 12:30 P.M. ADJOURN

Optional Preconference No. 2

Academics in Pediatric Cardiology: Key Skills and Tips for the Trainee or Junior Faculty (and, honestly, everyone else as well!)

- 1 p.m. The Mentor-Mentee Relationship: Making It Work for Both Parties
Ben Kozyak
- 1:15 p.m. Quality Improvement Projects: What to Ask and How to Execute
Jeffrey Anderson
- 1:30 p.m. Research Study Design: Tips and Recommendations
Andrew Glatz
- 1:45 p.m. The Dos and Don'ts of an Invited Lecture
Daniel Penny
- 2 p.m. The Key Components of a Good Research Paper
Laura Mercer-Rosa
- 2:15 p.m. What Am I looking for in a Faculty Candidate? – The Academic Position
Joseph Rossano
- 2:30 p.m. What Is the Division Chief Looking for in a Candidate Applicant for a Job? – The Clinical Position
Stuart Berger
- 2:45 p.m. Work, Life and Well-being: The Competitive Demands and How to Make it Work
Meryl Cohen
- 3 p.m. Panel Discussion Q & A
Faculty
- 3:30 P.M. ADJOURN



Optional Preconference No. 3

Congenital Heart Disease and Postoperative Management: A Comprehensive Review for Nurses and Front-line Providers

7:30 a.m.	Terminology of "Normal" Cardiac Anatomy <i>Lindsay Rogers and Meryl Cohen</i>
7:45 a.m.	Screening, Diagnosis and Preoperative Assessment <i>Kathryn Dodds</i>
8 a.m.	Open Heart Surgery: What Is CPB, X Clamp, Circulatory Arrest? <i>Christy Bosler</i>
8:15 a.m.	Early Postoperative Management Issues and Concerns <i>Maryam Naim</i>
8:30 a.m.	Temporary Pacing: Who and How <i>Christopher Janson</i>
8:45 a.m.	Break
9 a.m.	ECHO: Effusions, Function, Evaluation of Surgical Operation <i>David Goldberg</i>
9:15 a.m.	What the Chest X-ray Can and Cannot Show You <i>Aaron DeWitt</i>
9:30 a.m.	How to Decipher Cardiac Catheterization Data <i>Stephen Kaine</i>
9:45 a.m.	Postoperative Arrhythmias: SVT, JET, Heart Block, VT <i>Maully Shah</i>
10 a.m.	ECMO and Mechanical Support in Children with CHD <i>Chitra Ravishankar</i>
10:15 a.m.	Sedation and Pain Management after Cardiac Surgery <i>Michael Goldsmith</i>
10:30 a.m.	Break
10:40 a.m.	Ventricular Septal Defect <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – Ram Kumar Subramanyan</i>

	<i>Postoperative Care and Outcomes – Ellize Ergina</i>
11 a.m.	Complete Common Atrioventricular Canal Defect <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – James E. O'Brien</i> <i>Postoperative Care and Outcomes – Lisa Laddish</i>
11:20 a.m.	Tetralogy of Fallot <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – James E. O'Brien</i> <i>Postoperative Care and Outcomes – Lisa Laddish</i>
11:40 a.m.	Truncus Arteriosus <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – Ram Kumar Subramanyan</i> <i>Postoperative Care and Outcomes – Kathryn Dodds</i>
NOON	LUNCH
12:30 p.m.	Coarctation of the Aorta <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – Ram Kumar Subramanyan</i> <i>Postop Care and Outcomes – Lisa Laddish</i>
12:50 p.m.	D-Transposition of the Great Arteries/ Arterial Switch <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – Stephanie Fuller</i> <i>Postoperative Care and Outcomes – Kathryn Dodds</i>
1:10 p.m.	Total Anomalous Pulmonary Venous Return <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – James E. O'Brien</i> <i>Postoperative Care and Outcomes – Lillian Rosu</i>
1:30 p.m.	Single Ventricle: Stage 1, Bidirectional Glenn, Fontan <i>Anatomy/Morphology – Lindsay Rogers and Meryl Cohen</i> <i>Surgery – Stephanie Fuller</i> <i>Postoperative Care and Outcomes – Kathryn Dodds</i>
2:30 p.m.	Behavioral and Developmental Concerns in CHD <i>Daniel Licht</i>
2:45 p.m.	Growing Up with Congenital Heart Disease <i>Yuli Kim</i>
3 p.m.	Q & A
3:30 P.M.	ADJOURN

CONFERENCE PROGRAM

♥ TUESDAY, AUG. 30

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

The New Normal: Restoration and Transformation
in Pediatric and Congenital Heart Care

Moderators: Joseph Rossano and Jonathan Chen

- 4 p.m. Welcome to Our 25th Anniversary and
Introduction to Our Conference
Jack Rychik
- 4:10 p.m. Another New Normal (musical introduction)
Suzie Brown
- 4:30 p.m. On Responding to Emergencies: Lessons
Learned from the American Red Cross
Jack McMaster
- 4:45 p.m. On Maintaining Healthcare Provider
Wellness on the Front Lines of Care
Subi Shashidaran
- 5 p.m. On Building Equity and Diversity in the
Pediatric Cardiovascular Healthcare
Provider Workforce
Sowmya Balasubramanian
- 5:15 p.m. On Exploration of New Approaches to
Cardiovascular Research in the Young
Kristin Burns
- 5:30 p.m. On Incorporating Genetics into Practice
and Our Quest to Treat Rare Conditions
Seema Mital
- 5:45 p.m. On Creating New Standards for Quality
Congenital Heart Surgery
Sara Pasquali
- 6 p.m. On Facilitating the Digital Health Revolution
– New Models of Care in Pediatrics
Bimal Desai
- 6:15 p.m. On Weaving Innovation into the Fabric
of Congenital Cardiovascular Care
Damien Kenny
- 6:30 P.M. ADJOURN

Gala 25th Anniversary Celebration!

6:30–8:30 p.m.

Sponsored by



♥ WEDNESDAY, AUG. 31

7 – 8 a.m. **Sunrise Session: Let's Review Some Electrocardiograms!**
Mitchell Cohen and Maully Shah

Plenary Session II: 8 – 10 a.m.

**Well, I Certainly Should Know
More About That!**

Moderators: Paul Kantor and Daniel Penny

8 a.m. Editing Genes *In utero* to Influence Outcomes
William Peranteau

8:15 a.m. Congenital Heart Disease Impacts Extra-cardiac Organ System Development
Vibeke Hjortdal

8:30 a.m. Predicting Clinical Deterioration in Infants with Single Ventricle Palliation
Craig Rusin

8:45 a.m. Preventing Cardiac Death in Athletes
Jonathan Drezner

9 a.m. Characterizing Fibrosis in the Heart
Mark Fogel

9:15 a.m. How Pacing Has Changed: Selectively Pacing the Conduction System or Pacing the Heart Without a Wire
Maully Shah

9:30 a.m. Converting the Appropriate Child with Fontan Palliation into a Biventricular Circulation
Paul Chai

9:45 a.m. Panel and Discussion
Faculty

10 A.M. ADJOURN

Break/Visit the Exhibits 10 – 11 a.m.

Poster Session No. 1

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Wednesday, Aug. 31: Simultaneous Breakout Sessions 11 a.m. – 1 p.m.

Current Concepts and Challenges in the Fontan Circulation

Moderators: Kurt Schumacher and David Goldberg

11 a.m. The Potential Impact of a National Registry and Learning Network on Care and Outcomes for Single Ventricle: The Fontan Outcomes Network
Sasha Opatowsky

11:15 a.m. Bone Health in the Fontan Circulation
Catherine Avitabile

11:30 a.m. A Hepatologist's Perspective on the Liver in the Fontan Circulation: Experiences from the Fontan FORWARD Multidisciplinary Clinic
Elizabeth Rand

11:45 a.m. Systemic Atrioventricular Valve Regurgitation in the Single Ventricle: Significance and Effective Treatment Strategies
Yves d'Udekem

Noon Do Pulmonary Vasodilators Play a Role in Managing Fontan-associated Liver Disease?
Alexander Egbe

12:15 p.m. Exercise as Medicine in the Fontan Circulation: What Do We Know and What Still Needs to be Discovered to Optimize the Benefits?
Elizabeth Goldmuntz

12:30 p.m. Brain Structure and Function in Adults with Fontan Circulation
Nancy Pike

12:45 p.m. A Programmatic Approach to Successful Transplantation for the Adult with a Failing Fontan Circulation
Jamil Aboulhosn

1 P.M. ADJOURN

Surgical Challenges and Perioperative Complications in Congenital Cardiovascular Disease 2022

Moderators: David Barron and Jonathan Chen

11 a.m. How Do I Tell the Surgeon About the Unfavorable Post-op TEE Findings I Have Just Discovered?
Meryl Cohen

11:15 a.m. Enhanced Recovery after Cardiac Surgery in Children (ERAS)
Joshua Rosenblum

continued on next page>

♥ WEDNESDAY, AUG. 31

- 11:30 a.m. Variability in Chest Tube Drainage after Congenital Heart Surgery
Nicolas Madsen
- 11:45 a.m. Acute Coronary Artery Obstruction Following Congenital Heart Surgery
Michael Goldsmith
- Noon Can We Surgically Baffle the Left Ventricle to a Remote Aorta in Double-outlet RV with Atrioventricular Canal Defect?
Muhammad Nuri
- 12:15 p.m. Pulmonary Hypertension in the Postoperative Patient after Congenital Heart Surgery
Sarah Tabbutt
- 12:30 p.m. Strategies for Optimal Mechanical Support in the Failing Fontan Circulation
Iki Adachi
- 12:45 p.m. Panel Discussion Q & A
Faculty
- 1 P.M. ADJOURN

Ambulatory Pediatric Cardiology

Moderator: Vivek Allada

- 11 a.m. The Pros and Cons of Telemedicine in Pediatric and Congenital Heart Care: What Have We Learned from COVID-19?
Tamar Preminger
- 11:15 a.m. Facts and Fiction on Vaccine Hesitancy: The Ambulatory Clinic Conversation about COVID-19 with My Cardiology Families
Matthew Elias
- 11:30 a.m. The E-stethoscope: Can You Hear Me Now?
Vivek Allada
- 11:45 a.m. Ambulatory Rhythm Monitoring: State of the Art
Ramesh Iyer
- Noon The Approach to the Family Evaluation Following a Sudden Death
Christopher Janson
- 12:15 p.m. The Approach to the Child with Sickle Cell Anemia: How the Science Directs What We Should Do for the Heart
Jon Detterich
- 12:30 p.m. Efficiencies in the Outpatient Clinic: Tips and Tricks to Get Through the Day
Aaron Dorfman

- 12:45 p.m. The Pediatric Cardiologist in Private Practice: Navigating Relationships with the Partner Institutional Centers to Optimize Outcomes and Service for My Patient
Vincent Zales

1 P.M. ADJOURN

Pivotal Topics for Pediatric Cardiopulmonary Bypass

Moderators: Christos Calaritis and Tami Rosenthal

- 11 a.m. Multimodality Neuromonitoring to Improve Cardiopulmonary Bypass Safety: A Case Report
Christos Calaritis
- 11:15 a.m. Exploring the Relationship Between DO₂i and Post-op Acute Kidney Injury in Pediatric Cardiac Surgery
Molly Dreher
- 11:30 a.m. Unique Considerations for the Patient Undergoing Complex Adult Congenital Heart Repair
Stephanie Fuller
- 11:45 a.m. Managing Complex Neonatal Care for Cardiopulmonary Bypass
Andreas Loepke
- Noon Integrating New Technologies to Improve Patient Safety for Cardiopulmonary Bypass
Tami Rosenthal
- 12:15 p.m. Taking Time Out for Perfusion QI in a Busy Cardiac Program
Kellie Schiavo
- 12:30 p.m. Case-based Clinical Scenarios and Audience Q & A
Faculty
- 1 P.M. ADJOURN

Hot Topics in Pediatric Cardiac Nursing and APP Practice: Challenges, Controversies and Opportunities

- 11 a.m. What's Old Is New: Using Swans to Measure CO in the CICU?
Meg Cates
- 11:15 a.m. Caring for the Postoperative Adult Congenital Heart Patient in a Pediatric Hospital
Flerida Imperial-Perez
- 11:30 a.m. Electrophysiology and EMR Integration: A Safer Future for Patients?
Leann Miles
- 11:45 a.m. Burnout in the CICU: How Can We Prevent This?
Austin Turnbull

continued on next page>

♥ WEDNESDAY, AUG. 31

Noon	Challenges Confronting Adults with CHD <i>Mallory Gahm</i>
12:15 p.m.	Dexmedetomidine/Clonidine Management <i>Carol Okuhara</i>
12:30 p.m.	Circadian Rhythms in the ICU: Do They Matter? <i>Sandra Staveski</i>
12:45 p.m.	Quality Improvement Initiative Reduces Chest Tube Duration in Pediatric CT Surgery Patients <i>Amelia St. John</i>
1 P.M.	ADJOURN

Outdoor Luncheon

1 – 2 p.m.

Top Five Best Scientific Abstracts

2 – 3:15 p.m.

Ten-minute presentation and five-minute Q & A on this year's most interesting and provocative scientific abstracts

Plenary Session III: 3:15 – 6:45 p.m.

Let Me Make My Case: Deciding Which Course Is Best in Complex Conditions ... a "Watercooler" Encounter

Moderator: Jack Rychik

- Scenario 1 The Fontan Patient with Protein-losing Enteropathy Who Has Failed Medical Management: Heart Transplantation or Lymphatic Intervention?
Justin Weigand (questioner)
Yoav Dori (discussant)
Kurt Schumacher (discussant)
- Scenario 2 The Neonate with Critical Aortic Stenosis: Surgical Valvotomy or Balloon Valvuloplasty?
Michael Quartermain (questioner)
David Barron (discussant)
Diego Porras (discussant)
- Scenario 3 Improving Professional Nursing Autonomy: Why Should This Be a Goal and How Can We Accomplish This?
Sherri Kubis (questioner)
David Romberger (discussant)
Lisa Laddish (discussant)

- Scenario 4 The Neonate with Ebstein's Anomaly/ Dysplastic Tricuspid Valve with Severe Regurgitation: Best Surgical Strategy?
Monique Gardner (questioner)
Joseph Dearani (discussant)
Ram Kumar Subramanyan (discussant)
- Scenario 5 The Patient with a Significant Residual Lesion Following Surgery: Back to Surgery, to the Cath Lab or Leave it Alone?
Felina Mille (questioner)
Jonathan Chen (discussant)
Richard Ohye (discussant)
- Scenario 6 The Patient with TOF/Pulmonary Atresia, Hypoplastic Pulmonary Arteries and MAPCAS: Optimal Strategy for Treatment?
Holly Bauser-Heaton (questioner)
Michael Ma (discussant)
Muhammad Nuri (discussant)
- Scenario 7 The Situation Is Probably Hopeless: Should We Go Back to the Operating Room or Offer Palliative Care?
Aaron DeWitt (questioner)
Roxanne Kirsch (discussant)
Cynthia Herrington (discussant)
- Scenario 8 To VAD or Not to VAD, That Is the Question
Jonathan Edelson (questioner)
Christopher Almond (discussant)
David Morales (discussant)

5:30 – 5:45 p.m. Break

Conversations: Living with Congenital Heart Disease: The Direct Impact on Our Lives: A Panel Discussion Among Individuals Personally Affected by CHD
5:45 – 6:45 p.m.

Yuli Kim [Moderator/Lead]; Matthew Files;
Thomas Glenn; Taylor Hartzel Houlihan;
Diane Pickles; Michelle Steltzer

6:45 P.M. ADJOURN

♥ THURSDAY, SEPT. 1

- 7 – 8 a.m. Sunrise Session I: Coffee & Talk – Case-based Lessons in Critical Care
Venkat Shankar [Moderator/Lead]; Sarah Tabbut; Antonio Cabrerias; Maryam Naim
- 7 – 8 a.m. Sunrise Session II: Coffee & Talk – Case-based Lessons in Fetal Cardiovascular Disease
Amanda Shillingford [Moderator/Lead]; Miwa Geiger; Nitin Madan; Jodie Votava-Smith
- 7 – 8 a.m. Sunrise Session III: Coffee & Talk – Case-based Lessons in Heart Failure in Congenital Heart Disease
Matthew O'Connor [Moderator/Lead]; Suzie Brown; Angela Lorts; JD Menteeer
- 7 – 8 a.m. Sunrise Session IV: Nursing and Advanced Practice Provider Pharmacology Review
Louise Callow; Emily Collisson; Kathryn Dodds

Plenary Session IV: 8 – 10 a.m.

Success and Survival!

Now How to Best Follow and Provide Quality Surveillance for My Patient with ...

Moderators: Stuart Berger and Mark Lewin

- 8 a.m. COVID-19 Infection and Cardiovascular Concerns in the Young?
Matthew Oster
- 8:15 a.m. A Dilated Aorta after Norwood Aortic Reconstruction?
Michael DiMaria
- 8:30 a.m. Kawasaki's Disease?
Audrey Dionne
- 8:45 a.m. A Fontan Circulation?
Kathryn Dodds
- 9 a.m. D-Transposition of the Great Arteries?
Ali Zaidi
- 9:15 a.m. A Heart Transplant?
Elizabeth Blume
- 9:30 a.m. A Systemic Right Ventricle?
Jonathan Menachem
- 9:45 a.m. Panel Discussion Q & A
Faculty
- 10 A.M. ADJOURN

Break/Visit the Exhibits

10 – 11 a.m.

Poster Session No. 2

Simultaneous Breakout Sessions

11 a.m. – 1 p.m.

Look at the Data and Tell Me if This Can (or Should) Be Done?

Moderator: Meryl Cohen

11 a.m. – 1 p.m. Case-based Discussions on Institutional Perspectives with Imaging and Surgical Experts
Jonathan Chen and Meryl Cohen (CHOP); Richard Ohye and Thor Thorsson (C.S. Mott); James O'Brien and Sanket Shah (Mercy Children's); Ram Kumar Subramanyan and Pierre Wong (CHLA)

Quality Improvement: Theory and Practice in Pediatric and Congenital Cardiovascular Care

Moderators: Jeffrey Anderson and Shobha Natarajan

- 11 a.m. Principles of Quality Improvement Science
Jeffrey Anderson
- 11:15 a.m. Learning Networks and How They Change Practice and Outcomes
Carole Lannon
- 11:30 a.m. NPC-QIC and the Continuing Effort to Improve Care for Infants and Young Children with HLHS
David Brown
- 11:45 a.m. Herding Cats: Real Work Application of Quality Improvement
Shobha Natarajan
- Noon Quality Improvement in the CICU
David Hehir
- 12:15 p.m. ACTION – Quality Improvement Efforts in Pediatric Heart Failure
Angela Lorts
- 12:30 p.m. Quality Improvement in the Cardiac Cath Lab
Jeffrey Zampi
- 12:45 p.m. Panel Discussion Q & A
Faculty
- 1 P.M. ADJOURN

♥ THURSDAY, SEPT. 1

Hypertrophic Cardiomyopathy, Causes of Sudden Cardiac Events and Exercise

Moderators: Joseph Rossano and Maully Shah

- 11 a.m. Genetics and Outcomes in Pediatric Cardiomyopathy
Danielle Burstein
- 11:15 a.m. Imaging Perspectives in Hypertrophic Cardiomyopathy
Matthew O'Connor
- 11:30 a.m. Predicting Sudden Cardiac Death in Hypertrophic Cardiomyopathy
Seema Mital
- 11:45 a.m. Indications for an ICD and Their Impact on Life
Mitchell Cohen
- Noon Surgical Options in Hypertrophic Cardiomyopathy
Joseph Dearani
- 12:15 p.m. Sports Participation and Your Heart in Hypertrophic Cardiomyopathy – When Is it OK?
Sharlene Day
- 12:30 p.m. Case-based Clinical Scenarios and Audience Q & A
Faculty
- 1 P.M. ADJOURN

Out of the ICU and On Track to Go Home: The Cardiac Care Unit

Moderators: Chitra Ravishankar and Nicolas Madsen

- 11 a.m. What I Need to Make Sure of as I Transition My Patient from the Intensive Care to the Acute Care Unit
Maryam Naim
- 11:15 a.m. The Acuity Adaptable Geographic Cardiac Care Unit: Design and Implementation
Amy Lay
- 11:30 a.m. Optimal Modalities and Strategies for Monitoring the Patient in the Cardiac Care Unit
Alaina Kipps
- 11:45 a.m. Feeding Challenges in the Newborn with Congenital Heart Disease
Chitra Ravishankar
- Noon Arrhythmia Monitoring and Management in the Acute Care Unit
Ronn Tanel

- 12:15 p.m. Utilization of Advanced Practice Providers in the Cardiac Care Unit
Kerri Lombardi

- 12:30 p.m. How to Prepare the Family and Plan for Discharge: Nursing Perspective
Ashley Phillips

- 12:45 p.m. Efficiency in Discharge from Acute Care
Nicolas Madsen

- 1 P.M. ADJOURN

What's the Latest at the Forefront of Mechanical Circulatory Support?

Moderators: Renee Axdorff-Dickey and Tami Rosenthal

- 11 a.m. VAD Explant: How Do We Get There?
Matt O'Connor

- 11:15 a.m. The Impella Experience in Pediatrics
Jonathan Edelson

- 11:30 a.m. Inclusion and Exclusion Criteria for Listing for Heart Transplant after VAD Implant?
David Morales

- 11:45 a.m. The VAD Market Without “Heartware”?
Joseph Rossano

- Noon HM3 Care and Discharge Planning – A Novel Approach to a Technologically Complicated Patient: Case Lessons
Rachel White

- 12:15 p.m. Case-based Clinical Scenarios, Panel Discussion and Audience Q & A
Faculty

- 1 P.M. ADJOURN



♥ THURSDAY, SEPT. 1

Nursing Oral Abstracts: New Knowledge and Innovative Practice

11 a.m. – 1 p.m.

FREE TIME!

*Visit beautiful Southern California
and all it has to offer.*

Virtual Session – View on Your Own

Pediatric and Congenital Heart Care Around the Globe

(Virtual Session: Available Until Noon Sunday)

- 1 p.m. Congenital Heart Disease Care in the Persian Gulf:
What Have We Accomplished and What Yet Needs
to be Done?
Anas Abu Hazeem
- 1:15 p.m. COVID-19: Disease Impact on Pediatric
Cardiovascular Care and Vaccination Strategies
in Israel
Einat Birk
- 1:30 p.m. Practice Opportunities and Challenges
in Managing Congenital Heart Disease in a Busy Clinic
in Mexico City
Alfonso Martinez
- 1:45 p.m. Congenital Heart Disease Care in Ethiopia:
Challenges and Opportunities for Improving Care
to Children in Africa
Yayehyirad (Yayu) Mekonnen Ejigu
- 2 p.m. Developing an Effective Program for Managing
HLHS in Poland
Tomasz Mroczek
- 2:15 P.M. ADJOURN



HEART RUN 5K

CARING FOR KIDS' HEARTS



EXERCISE YOUR BODY AND YOUR MIND!

WHEN: Friday, Sept. 2, 2022

START TIME: 6:15 a.m.

WHERE: Hyatt Regency Huntington Beach, Calif.

(Registration required and limited to the first 200 registrants)

FEE: \$25 (includes 5K Heart Run event T-shirt)



YOGA FOR YOUR HEART (AND MIND)

Friday 6:15 – 7:30 a.m.

Where: Hyatt Regency Huntington Beach, Calif.

Fee: \$10



Awards and Featured Lectures: 8 – 10 a.m.

- 8 a.m. Introduction of the Annual Jack Downes Lecturer
Andreas Loepke
- 8:05 a.m. Annual Jack Downes Lecture
Robert Berg
- 8:20 a.m. Introduction of the Annual C. Walton Lillehei Lecturer
Jonathan Chen
- 8:25 a.m. Annual C. Walton Lillehei Lecture
Vaughn Starnes
- 8:40 a.m. Introduction of the Annual Pediatric and Congenital Cardiovascular Basic Science Lecturer
J. William Gaynor
- 8:45 a.m. Annual Pediatric and Congenital Cardiovascular Basic Science Lecture
Catherine Limperopoulos
- 9 a.m. Introduction of the Annual William J. Rashkind Lecturer
Joseph Rossano
- 9:05 a.m. Annual William J. Rashkind Lecture
Jack Rychik
- 9:20 a.m. Introduction of the Rauch Memorial Lecturer
Sherri Kubis
- 9:25 a.m. Annual Rauch Memorial Lecture
Stacey Lihn
- 9:40 a.m. Awards for Best Abstracts
Kathryn Dodds and David Goldberg
- 10 A.M. ADJOURN

Break/Visit Exhibits

10 – 11 a.m.

Poster Session No.3

Simultaneous Breakout Sessions

11 a.m. – 1 p.m.

Conversations on Tetralogy of Fallot: Optimizing Outcomes for the Lifespan Trajectory from Fetus to Adult

11 a.m. – 1 p.m. Panel Discussion-Daniel Penny (Moderator); Stephanie Fuller; Jeffery Zampi; Laura Mercer-Rosa; Elizabeth Goldmuntz; Glen Van Arsdell; Anitha John

Critical Heart Disease Detected in Fetal Life: Prenatal Recognition, Delivery Room Management and Postnatal Treatment

Moderators: Jay Pruetz and Mary Donofrio

- 11 a.m. Measuring Cerebral Tissue Oxygenation in the Fetus with Congenital Heart Disease
Shabnam Peyvandi
- 11:15 a.m. Monitoring the Vulnerable Period Between Delivery and Surgical Treatment to Improve Neurological Outcomes
Daniel Licht
- 11:30 a.m. Specific Problem #1: How Best to Manage When There Is Obstructed Total Anomalous Pulmonary Venous Connection?
Jay Pruetz
- 11:45 a.m. Specific Problem #2: How Best to Manage When There Is HLHS with Restrictive or Intact Atrial Septum?
Anita Moon-Grady
- Noon Specific Problem #3: How Best to Detect Prenatally and Manage When There Is Transposition of the Great Arteries with Suspicion of Restrictive or Intact Atrial Septum?
Sheetal Patel
- 12:15 p.m. Specific Problem #4: How Best to Manage TOF with Absent Pulmonary Valve
Mary Donofrio
- 12:30 p.m. A Model of Prenatal Stratification for Immediate Postnatal Care – Delivery Classification and The IMPACT Strategy
Jack Rychik

continued on next page>



♥ FRIDAY, SEPT. 2

12:45 p.m. How Best to Counsel Families in Challenging Fetal Conditions When the Outcomes Are Uncertain?

Miwa Geiger

1 P.M. ADJOURN

Healthcare Administration in Pediatric & Congenital Cardiovascular Disease 2022

Moderators: Paul Viviano and Lawrence Barnes

11 a.m. Key Performance Indicators in Pediatric Cardiovascular Care: Data Driven to Create Value
Vivek Allada

11:15 a.m. Making Good Decisions Quickly: Ideal Governance Models for a Pediatric and Congenital Heart Institute
Paul Kantor

11:30 a.m. Balancing Hospital and Practice Needs to Optimize Shared Objectives
Lara Khouri

11:45 a.m. Developing a Comprehensive Care Model in a Dispersed Patient Population
Mark Lewin

Noon TBD

12:15 p.m. Specialized Programs of Care Within a Cardiac Center – From Concept to Reality: How Investment in Expertise and Resources Enhances Value and Return
Mark Schwartz

12:30 p.m. Best Practices for Recruitment and Retention of Key Personnel: Lessons Learned
Robert Shaddy

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

1 P.M. ADJOURN

Visionary Approaches to ECMO

Moderators: Molly Dreher and Kelli Schiavo

11 a.m. Organizing an Interhospital ECMO Transport Program
Renee Axdorff-Dickey

11:15 a.m. Racial and Ethnic Variability in ECMO Use
Marissa Brunetti

11:30 a.m. Neuromonitoring on ECMO: Where Are We “Heading”
Christos Calaritis

11:45 a.m. ECMO Timing and Patient Selection: Is There an Optimal Strategy?
Asavari Kamakar

Noon Optimizing ECPR: Then and Now
Myke Federman

12:15 p.m. Panel Discussion and Audience Q & A
Faculty

1 P.M. ADJOURN

Clinical Case Scenarios:

Lessons Learned from Challenging Cases for Nursing and Advanced Practice Providers

11 a.m. – 1 p.m.

Meghan Yowell, Michelle Steltzer, Valeria Amezola, Alex Tabone, Laura Martis, Michele Krenek, Louise Callow, Erin Messing

Lunch

1 – 2 p.m.

Nursing Luncheon Sponsored by



Children's™
Healthcare of Atlanta
Heart Center



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

**Boxed Lunch for non-Nursing Attendees*

Conversations: Psychosocial Functional Outcomes and Mental Health Concerns in Congenital Heart Disease Throughout the Spectrum of Care

2 – 3 p.m.

Nadine Kasparian (Moderator), Melissa Cousino, Abby Demianczyk, Roberta Williams, Kelly Wolfe

Plenary Session V: 3 – 6 p.m.

Clinical Trials and Investigational Methods
in Pediatric and Congenital Cardiovascular Disease

Moderators: J. William Gaynor and John Charpie

- 3 p.m. Creating a Body of Evidence-based Knowledge on Pediatric and Congenital Cardiovascular Nursing Science
Martha Curley
- 3:15 p.m. Using Big Data to Improve Outcomes in the Cardiac ICU
Barbara Jo Achuff
- 3:30 p.m. Experiences in Study Design and Implementation: Will Delayed Cord Clamping Improve Outcomes in CHD?
Carl Backes
- 3:45 p.m. Experiences in Study Design and Implementation: Is Ductal Stenting Better than a Shunt for Pulmonary Blood Flow? The COMPASS Trial
Andrew Glatz
- 4 p.m. The SVR Trial: Impact on the Field, Knowledge Gained and Lessons Learned
Caren Goldberg
- 4:15 p.m. Drug Trials in Pediatric Cardiovascular Conditions: Past, Present and Future
Robert Shaddy
- 4:30 p.m. In Search of Optimal Drug Therapy for the Fontan Circulation: Lessons Learned from The FUEL Trial and Where Do We Go from Here?
David Goldberg
- 4:45 p.m. The Trial Within a Registry Concept: Studying Steroid Use after Congenital Heart Surgery and the Global Rank Score as a Model for More Efficient Clinical Trials
Kevin Hill

5 P.M. ADJOURN

Social Determinants of Health in Childhood Heart Disease: Making a Difference in Our Daily Practice
What Are the Social Determinants of Healthcare Outcomes?
5 – 6 p.m.

Moderator: Keila Lopez
Paul Stephens, Kristin Burns, Antonio Cabrerias, Shabnam Peyvandi

6 P.M. ADJOURN

Wine & Wisdom: Reception and Scientific Poster Session

6 – 7 p.m.

Sponsored by



♥ SATURDAY, SEPT. 3

- 7 – 8 a.m. **Sunrise Session IV: Coffee & Talk: Case-based Lessons in Cardiac Catheterization Diagnostics and Interventions**
Stephen Kaine [Lead/Moderator]; Darren Berman; Athar Qureshi; Jeffrey Zampi
- 7 – 8 a.m. **Sunrise Session V: Coffee & Talk: Case-based Lessons in Imaging**
Laura Mercer-Rosa [Moderator/Lead]; Mark Fogel; Joshua Robinson; Lindsay Rogers
- 7 – 8 a.m. **Sunrise Session VI: Coffee & Talk: A Difficult Situation – But I Figured It Out!**
Ben Kozyak [Moderator/Lead], Barbara-Jo Achuff, Matthew Files, Tomasz Mroczek, Martin Zahorec

Plenary Session VI: 8 a.m. – 12:30 p.m.

You Think This Is Simple? Think Again!

Moderators: Craig Fleishman and Alan Friedman

- 8 a.m. How Best to Medically Treat Congestive Heart Failure in the Young
Christopher Almond
- 8:15 a.m. Treating Pulmonary Hypertension in the Premature Infant
Brian Birnbaum
- 8:30 a.m. Providing Palliative Care for My Child with CHD
Elizabeth Blume
- 8:45 a.m. Successfully Providing Care for an Angry Family
Aaron DeWitt
- 9 a.m. Caring for the Child with Turner Syndrome and Heart Disease
Aaron Dorfman
- 9:15 a.m. Optimizing Care for the Patient at Risk for Aortopathy
Stacey Drant
- 9:30 a.m. Applying Echocardiographic Strain Imaging to Aid in Clinical Decision-making
Dan Forsha
- 9:45 a.m. Options for Anticoagulation in the Child with Congenital Heart Disease
Therese Giglia

- 10 a.m. BREAK
- 10:15 a.m. New Therapies for Treatment of Early Postoperative Arrhythmias
Christopher Janson
- 10:30 a.m. Staffing the Nursing Needs in a Busy Cardiovascular Center: Creating Opportunities for Education, Life-work Balance and Professional Satisfaction
Sherri Kubis
- 10:45 a.m. Deciding When to Close a Ventricular Septal Defect
Grace Kung
- 11 a.m. Administering Anesthesia to the Cardiac Patient for Non-cardiac Procedures
Andreas Loepke
- 11:15 a.m. Individualizing Techniques for the “Double-switch” Operation
Muhammad Nuri
- 11:30 a.m. Managing Pediatric Syncope
Lindsey Malloy-Walton
- 11:45 a.m. Managing the Pediatric Patient with Bicuspid Aortic Valve
Joshua Robinson
- Noon Running ECMO for an Extended Period of Time
Tami Rosenthal
- 12:15 p.m. Prenatal Diagnosis of Coarctation of the Aorta
Gary Satou

12:30 P.M. ADJOURN

Best wishes and thanks for attending our 25th anniversary year of the Pediatric & Congenital Cardiovascular Disease Conference!

HOPE TO SEE YOU AGAIN NEXT YEAR!

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See You Next Year



CARDIOLOGY 2023

*26th Annual Update on
Pediatric and Congenital
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Stay tuned for
further information!