

# CARDIOLOGY 2022

## PROGRAM

*25th*

Annual Update on  
Pediatric and Congenital  
Cardiovascular Disease

### **THE NEW NORMAL:**

Transformation  
in Pediatric  
and Congenital  
Heart Care



**AUG. 30 – SEPT. 3, 2022**

Hyatt Regency, Huntington Beach, Calif.

Learn more at  
[chop.edu/cardiology2022](https://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*

# PRECONFERENCE PROGRAM

## ♥ TUESDAY, AUG. 30

### Optional Preconference No. 1

#### Driftwood Room

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

#### Catalina Room

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  
*Monique Gardner*
- 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

North Huntington Ballroom

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

Moderators: Kathryn Dodds, Lisa Laddish, Ellize Ergina, Lillian Rosu

- 7:30 a.m. Terminology of "Normal" Cardiac Anatomy  
*Lindsay Rogers and 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?  
*Kirsten Young*
- 8:15 a.m. Early Postoperative Management Issues and Concerns  
*Maryam Naim*
- 8:30 a.m. Temporary Pacing: Who and How  
*Christopher Janson*
- 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  
*Stephen Kaine*
- 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  
*Michael Goldsmith*
- 10:30 a.m. Break
- 10:40 a.m. Ventricular Septal Defect  
*Anatomy/Morphology – Lindsay Rogers and Meryl Cohen*  
*Surgery – Ram Kumar Subramanyan*

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



♡ TUESDAY, AUG. 30

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

*Grand Ballroom D-G*

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  
*Subhadra Shashidharan*
- 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!

Lighthouse and California Courtyard

6:30–8:30 p.m.

Sponsored by



## ♥ WEDNESDAY, AUG. 31

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

### Plenary Session II: 8 – 10 a.m.

**Grand Ballroom D-G**

**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 Sudden 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

Sponsored by



## Wednesday, Aug. 31: Simultaneous Breakout Sessions

11 a.m. – 1 p.m.

### Current Concepts and Challenges in the Fontan Circulation **Grand Ballroom G-E**

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 **North Huntington Ballroom**

Moderators: David Winlaw 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 South Huntington Ballroom

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 Sick 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 Catalina Room

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  
*Erica Lin*
- 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 Grand Ballroom D

Moderators: Meg Cates and Carol Okuhara

- 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*

*continued on next page>*

## ♥ WEDNESDAY, AUG. 31

- 11:45 a.m. Burnout in the CICU: How Can We Prevent This?  
*Amanda Seelhorst*
- Noon Challenges Confronting Adults with CHD  
*Mallory Gahm*
- 12:15 p.m. Dexmedetomidine/Clonidine Management  
*Carol Okuhara*
- 12:30 p.m. Circadian Rhythms in the ICU: Do They Matter?  
*Sandra Staveski*
- 12:45 p.m. Quality Improvement Initiative Reduces Chest  
Tube Duration in Pediatric CT Surgery Patients  
*Amelia St. John*
- 1 P.M. ADJOURN

## Outdoor Luncheon

1 – 2 p.m., Courtyard

### Top Five Best Scientific Abstracts

2 – 3:15 p.m., Grand Ballroom D-G

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

### Plenary Session III: 3:15 – 5:30 p.m.

Grand Ballroom D-G

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 Winlaw (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)*  
*Paul Chai (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?  
*Ben Kozyak (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., Grand Ballroom D-G

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  
**Driftwood Room**  
*Venkat Shankar [Moderator/Lead];  
Sarah Tabbutt; Antonio Cabrerias; Maryam Naim*
- 7 – 8 a.m. Sunrise Session II: Coffee & Talk –  
Case-based Lessons in Fetal  
Cardiovascular Disease  
**North Huntington Ballroom**  
*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  
**South Huntington Ballroom**  
*Matthew O'Connor [Moderator/Lead];  
David Rosenthal; JD Menteer*
- 7 – 8 a.m. Sunrise Session IV: Nursing Coffee and Talk –  
Cardiac Medications: A Case of Heart Failure  
**Grand Ballroom D-G**  
*Louise Callow; Heather Collins; Kathryn Dodds*

### Plenary Session IV: 8 – 10 a.m.

**Grand Ballroom D-G**

**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?**

**Grand Ballroom E-G**

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**

**Vista Ballroom**

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  
*David Rosenthal*

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

#### North Huntington Ballroom

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

#### South Huntington Ballroom

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?

#### Catalina Ballroom

Moderators: Molly Dreher and Kellie Schiavo

- 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  
*Cory Waters*
- 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., Grand Ballroom D

Moderators: Lisa Laddish, Nancy Pike, Kathryn Dodds

## 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





FRIDAY, SEPT. 2

# 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: HUNTINGTON BEACH

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

 **Children's  
Hospital**  
LOS ANGELES



## YOGA FOR YOUR HEART (AND MIND)

Friday 6:15 – 7:30 a.m.

Where: Huntington Beach

Fee: \$10

 **Children's  
Hospital**  
LOS ANGELES

## ♥ FRIDAY, SEPT. 2

### Awards and Featured Lectures: 8 – 10 a.m. Grand Ballroom D-G

- |           |   |
|-----------|---|
| 8 a.m.    | Introduction of the Annual Jack Downes Lecturer<br><i>Maryam Naim</i>   |
| 8:05 a.m. | Annual Jack Downes Lecture<br><i>Robert Berg</i>  |
| 8:20 a.m. | Introduction of the Annual C. Walton Lillehei Lecturer<br><i>Jonathan Chen</i>  |
| 8:25 a.m. | Annual C. Walton Lillehei Lecture<br><i>Vaughn Starnes</i>  |
| 8:40 a.m. | Introduction of the Annual Pediatric and Congenital Cardiovascular Basic Science Lecturer<br><i>J. William Gaynor</i> |
| 8:45 a.m. | Annual Pediatric and Congenital Cardiovascular Basic Science Lecture<br><i>Catherine Limperopoulos</i>                |
| 9 a.m.    | Introduction of the Annual William J. Rashkind Lecturer<br><i>Joseph Rossano</i>                                      |
| 9:05 a.m. | Annual William J. Rashkind Lecture<br><i>Jack Rychik</i>  |
| 9:20 a.m. | Introduction of the Rauch Memorial Lecturer<br><i>Sherri Kubis</i>  |
| 9:25 a.m. | Annual Rauch Memorial Lecture<br><i>Stacey Lihn</i>   |
| 9:40 a.m. | Awards for Best Abstracts<br><i>Kathryn Dodds and David Goldberg</i>  |
| 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**

*Grand Ballroom E-G*

11 a.m. – 1 p.m. Panel Discussion-Daniel Penny (Moderator); David Winlaw; 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**

*North Huntington Ballroom*

Moderators: Jay Pruetz and Mary Donofrio

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

*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 South Huntington Ballroom

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 Managing Hospital Logistics During a Pandemic  
*Debbie Smith*

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 Catalina Room

Moderators: Tami Rosenthal and Renee Axdorff-Dickey

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., Grand Ballroom D

Moderators: Michelle Steltzer, Louise Callow

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

## Lunch

1 – 2 p.m., Courtyard

### 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., Grand Ballroom D-G

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



## Plenary Session V: 3 – 6 p.m.

Grand Ballroom D-G

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 A. Q. 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*

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., Grand Ballroom D-G

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., Foyer

Sponsored by



## ♥ SATURDAY, SEPT. 3

- 7 – 8 a.m. Sunrise Session IV: Coffee & Talk — Case-based Lessons in Cardiac Catheterization Diagnostics and Interventions  
Grand Ballroom D  
*Stephen Kaine [Lead/Moderator]; Darren Berman; Athar Qureshi; Jeffrey Zampi*
- 7 – 8 a.m. Sunrise Session V: Coffee & Talk — Case-based Lessons in Imaging  
Grand Ballroom E-G  
*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!  
Driftwood Room  
*Ben Kozyak [Moderator/Lead], Barbara-Jo Achuff, Tomasz Mroczek, Martin Zahorec*

### Plenary Session VI: 8 a.m. – 12:30 p.m. Grand Ballroom D-G

#### 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  
*Erica Lin*
- 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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<b>Lindsey Malloy-Walton</b> <i>Children's Hospital of Philadelphia</i>	<b>Ashley Phillips</b> <i>Children's Hospital of Philadelphia</i>	<b>Subhadra Shashidharan</b> <i>Children's Healthcare of Atlanta</i>	
<b>Alfonso Martinez</b> <i>Mexico City, Mexico</i>	<b>Diane Pickles</b> <i>Additional Ventures</i>	<b>Amanda Shillingford</b> <i>Children's Hospital of Philadelphia</i>	
	<b>Nancy Pike</b> <i>Children's Hospital Los Angeles/UCLA School of Nursing</i>	<b>Debbie Smith</b> <i>Children's Hospital of Philadelphia</i>	

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**FEB. 23 – 26, 2023**

26th Annual Update on  
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