

CARDIOLOGY 2021

24th Annual Update on Pediatric and Congenital Cardiovascular Disease

RESILIENCE IN PEDIATRIC & CONGENITAL CARDIOVASCULAR DISEASE

Virtual Conference

FEB. 11 – 14, 2021

Learn more at
chop.edu/cardiology2021



Children's Hospital
of Philadelphia®
Cardiac Center

WELCOME

Yes, it has been a difficult time as we strive to care for ourselves as well as do our best to maintain and advance the health of our patients with pediatric and congenital cardiovascular disease. Solving new problems and creating new adaptations provides for both challenges and opportunities. Keeping up with our education and staying abreast of the latest information and innovations in our field has never been more important than now.

With this approach in mind, we present our multidisciplinary comprehensive conference, the *24th Annual Update on Pediatric and Congenital Cardiovascular Disease*.

Our theme this year is “Resilience in Pediatric & Congenital Cardiovascular Disease.” The esteemed faculty of more than 100 experts will share their knowledge through lectures in plenary sessions, breakout sessions, moderated panels of experts, and lively discussion groups covering all areas and topics related to the comprehensive care of the unborn, neonate, child and young adult with cardiovascular disease.

The goals of our educational conference are to give healthcare providers the most up-to-date, knowledge-based tools necessary to effectively provide a normal quality and duration of life for individuals with pediatric and congenital cardiovascular disease.

WE ARE PLEASED TO HAVE YOU JOIN US!
Welcome to our virtual conference
for 2021!

Organizing Committee, Cardiology 2021

GENERAL INFORMATION

Topics will include:

- Resilience in pediatric and congenital cardiovascular disease at the societal, community, institutional, individual, organ and cellular levels
- Collaborative organizational efforts in pediatric and congenital cardiovascular disease
- Update on single ventricle heart disease care and management
- Pediatric and congenital cardiovascular disease perspectives of care from the viewpoints of various providers and stakeholders
- Innovations in pediatric and congenital cardiovascular care and science: 2021
- A focus on the wellness and resilience of healthcare providers
- Deep dives into the topics of lymphatic circulation in congenital heart disease, arrhythmias, imaging, ambulatory cardiology, corrected TGA, truncus arteriosus, adult CHD, valvar disease and much, much more!

Why you should attend Cardiology 2021:

- One of the world's premier high-quality conferences dedicated to pediatric and congenital cardiovascular disease
- Exposure to the latest updates in the field
- Hear state-of-the-art lectures from world class experts
- In-depth approach to new information as well as review of basic principles
- Dedicated sessions for nurses, perfusion specialists and healthcare administrators
- More than 20 credits for physicians, nurses and perfusion specialists

Course Objectives 2021

At the completion of this program, the participant 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
- Discuss the lessons learned over the past few decades of discovery and the future direction necessary to advance the field of pediatric and congenital cardiovascular disease

- Describe the latest body of information to emerge, as well as identify gaps in knowledge related to patients with single ventricle type of heart disease
- Appreciate the importance of healthcare provider wellness and learn strategies of well-being and self-care
- Describe the concept of resilience at multiple levels and comprehend how complex systems can develop resiliency to stress and adaptation
- Review the physiological consequences and importance of physical activity in single ventricle type of congenital heart disease
- Discuss the latest concepts in care and management of truncus arteriosus
- Outline key factors in decision-making related to imaging information in pediatric and congenital cardiovascular disease
- Describe the multiple options and strategies of care available for the condition of corrected transposition of the great arteries
- Describe the diagnostics, management and outcomes for heart valve disease in congenital and pediatric cardiovascular conditions
- Explain the latest updates in the rapidly developing field of the lymphatic circulation
- Find answers to the many common questions related to the ambulatory care of patients with congenital heart disease
- Describe the most recent developments in the care and management of the adult with congenital heart disease
- Discuss the latest techniques and developments in the field of pediatric cardiovascular perfusion
- Explain the underlying principles and best practices for nurses and other front-line providers for the patient with congenital heart disease

Call for Abstracts

Abstract Submission Deadline

Monday, Nov. 23, 2020 (11:59 p.m. EST)

Notification of Acceptance

Monday, Dec. 7, 2020

Poster Abstract Presentation

Friday, Feb. 12 – Sunday, Feb. 14, 2021

Course Fees

The registration fee for the four-day conference is \$299 for physicians and \$159 for other healthcare professionals and physicians-in-training.

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 22 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.

Cancellation and Refund Policy

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to unforeseen circumstances. In order to process refunds for course withdrawals, cancellations must be received in writing by Monday, Feb. 1, 2021. Refunds will be issued for the amount of registration less a \$50 service charge.

Register online: chop.cloud-cme.com

PROGRAM

Please note: All times listed are Eastern Standard Time

♥ THURSDAY, FEB. 11

Opening Plenary Session 6 – 8 p.m.

Resilience in Pediatric & Congenital Cardiovascular Disease 2021

Moderators: Jonathan Chen and Joseph Rossano

- 6 p.m. Opening Remarks
Jack Rychik
- 6:15 p.m. Resilience at the Societal Level: Governmental Response to the Unfolding Crisis of COVID-19
Howard Zucker
- 6:30 p.m. First Exposures in the U.S. and the Congenital Heart Community Response to COVID-19: Seattle Experience
Mark Lewin
- 6:45 p.m. COVID-19: Impact on Nursing Practices
Sherri Kubis
- 7 p.m. Vaccine Development for COVID SARS-2: Promise and Perils
Paul Offit
- 7:15 p.m. Mechanisms and Models of Cellular Resilience in Pediatric and Congenital Cardiovascular Disease
Shelley Miyamoto
- 7:30 p.m. What Are We Battling? Resilience Beyond Mortality: The Fight to Reduce Morbidity in Cardiac Surgery
Katherine Brown
- 7:45 p.m. Psychological Resilience in the Patient with CHD
Adrienne Kovacs
- 8 p.m. Panel Discussion Q & A
Faculty
- 8:15 P.M. ADJOURN

♥ FRIDAY, FEB. 12

- 9 – 10 a.m. “Coffee and Talk” — chat room discussions and opportunity for engagement with the faculty

- 10 – 11 a.m. ECG Review: How to Read an ECG and Never Get it Wrong!

Mitchell Cohen and Maully Shah

Plenary Session II 11 a.m. – 1 p.m.

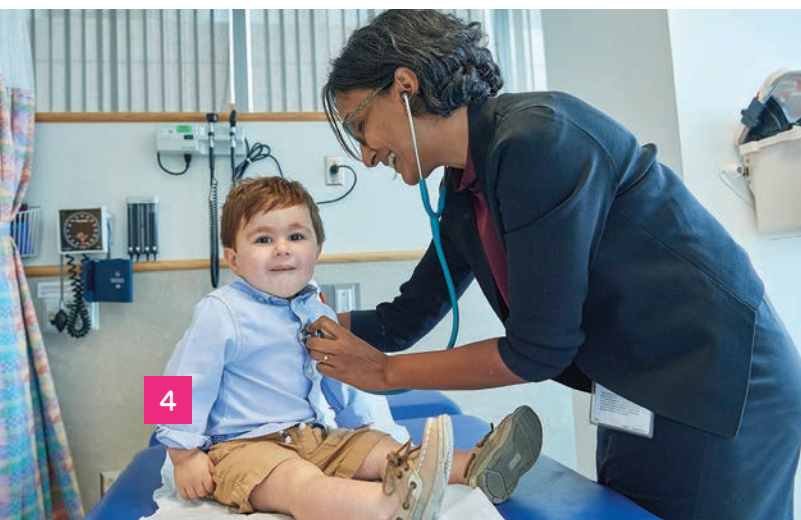
Collaborative Organizational Efforts in Pediatric and Congenital Cardiovascular Disease: How Do We Get to Where We Want to Be?

Moderators: Daniel Penny and Robert Shaddy

- 11 a.m. Challenges and Opportunities in Disseminating Discovery and Knowledge: Building a Quality Journal Specific to the Needs of our Global Community
Marshall Jacobs
- 11:15 a.m. The NIH and the Pediatric Heart Network
Gail Pearson
- 11:30 a.m. What Role Can the FDA Play?
Vasum Peiris
- 11:45 a.m. The Cardiac Neurodevelopmental Outcomes Collaborative
Caren Goldberg
- Noon Additional Ventures: A Foundation Intent on Changing Outcomes for Single Ventricle
Kirstie Keller
- 12:15 p.m. ACTION: A Pediatric Heart Failure Learning Collaborative
Angela Lorts
- 12:30 p.m. The Fontan Outcomes Network: A Registry and a Learning Network
Alexander Opatowsky
- 12:45 p.m. Panel Discussion Q & A
Faculty
- 1 P.M. ADJOURN

1 – 2 p.m. Break: Visit our Virtual Exhibits, Supporting Satellite Events, and E-Abstract Posters

E-Abstract Poster Session #1



SIMULTANEOUS BREAKOUT SESSIONS 2 – 4 P.M.

Where Imaging Counts! — Common Mistakes and Pearls of Wisdom in Pediatric and Congenital Cardiovascular Imaging

Moderator: Meryl Cohen

- 2 p.m. Is this LV Sufficient? How Will We Know?
Kevin Friedman
- 2:15 p.m. DORV: What Tools to Tell Us if We Can Complete Successful Biventricular Repair
Piers Barker
- 2:30 p.m. AV Canal: How Much Residual AV Valve Regurgitation Is Too Much?
Michael Quartermain
- 2:45 p.m. Intraop TOF Decisions: There Is Residual Pulmonic Stenosis — Leave It or Fix It?
Laura Mercer-Rosa
- 3 p.m. Residual VSD: Should the Surgeon Go Back On?
Meryl Cohen
- 3:15 p.m. Panel Discussion: Trust, But Verify: The Surgeon's Perspective on What to Accept and What to Question When Making Decisions
Meryl Cohen with Echo Faculty, and William DeCampi, Christopher Mascio and James Quintessenza
- 4 P.M. ADJOURN

Truncus Arteriosus: Management and Outcomes

Moderator: Craig Fleishman

- 2 p.m. Anatomical Variability in Truncus Arteriosus
Jill Savla
- 2:15 p.m. Fetal and Neonatal Imaging
Craig Fleishman
- 2:30 p.m. Surgical Strategies for Newborn Repair
Muhammad Nuri

- 2:45 p.m. Value-based Care
Joyce Johnson
- 3 p.m. Options on What to Do About Truncal Valve Dysfunction
Ram Subramanyan
- 3:15 p.m. Intermediate and Long-term Outcomes
Rachel Wald
- 3:30 p.m. Panel Discussion
Faculty Panel
- 4 P.M. ADJOURN

Advances in Ambulatory and Outpatient Care

Moderator: Vivek Allada

- 2 p.m. Challenges and Opportunities in Outpatient Pediatric and Congenital Heart Care
Vivek Allada
- 2:15 p.m. Outpatient Mechanical Circulatory Support
Danielle Burnstein
- 2:30 p.m. Surveillance Monitoring for the Patient with Fontan Circulation
Kathryn Dodds
- 2:45 p.m. Genetic Testing in the Clinic and How It Impacts Care I: Congenital Heart Disease
Elizabeth Goldmuntz
- 3 p.m. Genetic Testing in the Clinic and How It Impacts Care II: Cardiomyopathy
Paul Kantor
- 3:15 p.m. Home Monitoring and Mobile Health: Technology-based Care Models That Are Changing Practice
Nalaka Gooneratne
- 3:30 p.m. Quality Improvement in the Ambulatory Outpatient Setting
Matthew Elias, MD
- 3:45 p.m. Panel Discussion
- 4 P.M. ADJOURN

2 p.m. - 4 p.m. Nursing Abstract Presentations

- 4 P.M. ADJOURN

continued>

Looking Through a Different Lense: Pediatric Cardiopulmonary Bypass Surgery

Moderator: Tami Rosenthal

- 2 p.m. Integrating Contemporary Concepts and Clinical Significance of DO₂ and VO₂ in Pediatric Perfusion Practice
Isaac Chinnappan
- 2:15 p.m. Bloodless Arterial Switch in a 2.7 kg Jehovah's Witness Patient
Dan Gomez
- 2:30 p.m. Collaborative Approach to Blood Management
Aymen Naguib
- 2:45 p.m. Quality Improvement: What Should We Be Focusing on in the Periop Area?
Muhammad Nuri
- 3 p.m. Integrating AMSECT Standards and Guidelines for Pediatric CPB
Molly Oldeen
- 3:15 p.m. FFP Use for CPB: Is There a Best Practice?
Asif Padiyath
- 3:30 p.m. Pump Room Advice: Virtual Discussion
Panel Q & A
- 4 P.M. ADJOURN

4 – 4:15 p.m. Break

Plenary Session III

**Focus on the Healthcare Professional:
Creating an Optimal Culture for
Resilience, Wellness and Provider
Quality of Life**

Moderator: Girish Shirali and TBD

- 4:15 p.m. The Power of Reinvention
Audrey Marshall
- 4:30 p.m. Developing an Institutional Program for Physician Well-being
Miriam Stewart
- 4:45 p.m. Medice, Cura te Ipsum: Physician Heal Thyself
Stacey Drant
- 5 p.m. The Importance and Value of Retreat
Yoav Dori
- 5:15 p.m. Provider and Staff Well-being in 2021
Liz Crowe
- 5:30 p.m. Panel Discussion Q & A
- 6:15 P.M. ADJOURN

♥ SATURDAY, FEB. 13

- 9 – 10 a.m. “Coffee and Talk” – chat room discussions and opportunity for engagement with the faculty
- 10 – 11 a.m. Case Presentations of Fascinating Conditions and Lessons Learned – Presentations and Panel Review
Danielle Burstein, Joshua Robinson, Amy Schultz, Timothy Slesnick

Plenary Session IV

2021 Featured Lectures

- 11 a.m. Introduction of the Annual Jack Downes Lecturer
Andreas Loepke
- 11:05 a.m. Annual Jack Downes Lecture
Andrew Costarino
- 11:20 a.m. Introduction of the Annual C. Walton Lillehei Lecturer
Jonathan Chen
- 11:25 a.m. Annual C. Walton Lillehei Lecture
Richard Ohye
- 11:40 a.m. Introduction of the Rausch Memorial Lecturer
Denise Donaghue
- 11:45 a.m. Annual Rausch Memorial Lecture
Jean Connor
- Noon Introduction of the Annual Pediatric and Congenital Cardiovascular Basic Science Lecturer
J. William Gaynor
- 12:05 p.m. Annual Pediatric and Congenital Cardiovascular Basic Science Lecture
Christopher Breuer
- 12:20 p.m. Introduction of the Annual William J. Rashkind Lecturer
Joseph Rossano
- 12:25 p.m. Annual William J. Rashkind Lecture
A Dedication to Paul Weinberg
- 12:45 p.m. Awards
Dave Goldberg and Kathryn Dodds
- 1 P.M. ADJOURN

**1 – 2 p.m. Break: Visit our Virtual Exhibits,
Supporting Satellite Events, and
E-Abstract Posters**
E-Abstract Poster Session #2

SIMULTANEOUS BREAKOUT SESSIONS 2 – 4 P.M.

Case Scenarios in Congenitally Corrected TGA

Panel Discussion Lead: Daniel Penny

- 2 p.m. Anatomical Considerations and Variability in Congenitally Corrected TGA [TGA{S,L,L}]
Lindsay Rogers
- 2:20 p.m. Panel Discussion
Panelists: Craig Broberg, Wayne Franklin, Viktor Hraska, Richard Ohye, David Winlaw
- 4 P.M. ADJOURN

Resilience in the ACHD Patient: Case-based Lessons

Panel Discussion Lead: Yuli Kim

- 2 p.m. Panel Discussion
Panelist: Jamil Aboulhosn, Stephanie Fuller, Adrienne Kovacs, Eric Krieger, Alexander Opatowsky
- 4 P.M. ADJOURN

Valvar Dysfunction in Congenital Heart Disease

Moderator: Jonathan Chen

- 2 p.m. Anatomical and Physiological Considerations of Systemic AV Valve Insufficiency in the Single Ventricle Heart
Tarek Alsaeid
- 2:15 p.m. The Spectrum of Options and Value of Advanced Echocardiographic Imaging
Lindsay Rogers
- 2:30 p.m. Form and Function: Characterization of Valvar Abnormalities and Dysfunction Using MRI Techniques
Mark Fogel
- 2:45 p.m. 3D Computational Modeling for Valvar Disease
Matthew Jolley

- 3 p.m. Novel Catheter-based Interventions for Valvar Insufficiency
Matthew Gillespie
- 3:15 p.m. Aortic Valve Insufficiency: Surgical Strategies to Create Competence
Jonathan Chen
- 3:30 p.m. Panel Discussion
Faculty
- 4 P.M. ADJOURN

Nursing Case Studies: Cases of Resilience and Grit in a Pandemic

Case Presentations Highlighting Important Aspects of Care in Pediatric and Congenital Cardiovascular Disease During COVID-19

Moderator: TBD

Nurse Faculty

- 4 P.M. ADJOURN

Tools of the Trade: Methods for Optimizing ECMO Care

Moderator: Tami Rosenthal

- 2 p.m. Cardiohelp® in Pediatrics: Lessons Learned
Michael Brewer
- 2:15 p.m. Anticoagulation for Pediatric ECMO: Does One Strategy Work for All Cardiac Patients?
Marissa Brunetti
- 2:30 p.m. Pharmacokinetics: Things to Consider for Cardiac ECMO Patients
Haley Collier and Alyssa Hager
- 2:45 p.m. Managing COVID ECMO at a Children's Hospital
Michael Pizzi
- 3 p.m. Impella and ECMO in the Pediatric Patient: Winning Combo or More of a Challenge?
Amy Romer
- 3:15 p.m. ECMO Cannula Preservation for High-risk Transition off ECMO
Tami Rosenthal
- 3:30 p.m. Faculty Panel Discussion
Faculty
- 4 P.M. ADJOURN

4 – 4:15 p.m. Break

continued>

Plenary Session V

These are Three Important Things I Need You to Know: Sharing My View on What Is Important in Pediatric and Congenital Heart Care

Moderator: James Steven and Alan Friedman

- 4:15 p.m. Hospital Administrator ... to Cardiology Division
Thomas Dole
- 4:30 p.m. Nurse ... to Physician
Natalie Bernard
- 4:45 p.m. Surgeon ... to Cardiologist/Echocardiographer
James O'Brien

- 5 p.m. Perfusionist ... to Surgeon
Tami Rosenthal
- 5:15 p.m. Cardiac Catheterization Specialist ... to All Other Providers
Jacqueline Kreutzer
- 5:30 p.m. Cardiac Intensivist ... to Step-down Unit and Outpatient Cardiologist
Kiona Allen
- 5:45 p.m. Panel Discussion Q & A
Faculty
- 6 P.M. ADJOURN

♥ SUNDAY, FEB. 14

9 – 10 a.m. “Coffee and Talk” – chat room discussions and opportunity for engagement with the faculty

10 – 11 a.m. First Up ... Cases /Live or Videotaped

Plenary Session VI

Innovations in Diagnostics and Care for Pediatric and Congenital Cardiovascular Disease 2021

Moderators: J. William Gaynor and Andrew Glatz

- 11 a.m. 3D Imaging for Fetal Coarctation of the Aorta
John Simpson
- 11:15 a.m. Artificial Placental Support: A New Approach to Prenatal Cardiovascular Disease
Jack Rychik
- 11:30 a.m. Noninvasive Optical Monitoring Techniques in Congenital Heart Disease: Insights and Potential Impact on Practice
Daniel Licht
- 11:45 a.m. Development of Novel Materials Used for Cardiac Surgery
David Hoganson
- Noon New Concepts in Conduit Design for CHD Care
David Winlaw
- 12:15 p.m. Catheter-based Rerouting of Blood Flow in Complications Related to the Fontan Circulation
Jonathan Rome

12:30 p.m. How Do We Best Go About Optimizing Mental Health and Quality of Life in CHD?
Nadine Kasparian

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

1 P.M. ADJOURN

1 – 2 p.m. Break: Visit our Virtual Exhibits, Supporting Satellite Events and E-Abstract Posters
E-Abstract Poster Session #3

2 – 4 P.M. BREAKOUT SESSION

The Evolving Form and Function of Future Practice in Pediatric and Congenital Heart Care (Impact of Healthcare Economics, COVID-19, Shift in Patient Populations, etc.)

Panel Discussion

2 – 4 p.m.

Moderator: TBD

Panelists: Stuart Berger, Denver Saltee, Daniel Penny, Joseph Rossano, Mark Schwartz, Robert Shaddy, Girish Shirali, Paul Viviano

Lymphatics 2021

Moderator: Aaron DeWitt

- 2 p.m. Genetic Influences on the Lymphatic Circulation
Hakon Hakonarson
- 2:15 p.m. Understanding the Unique Physiology of the Lymphatic Circulation in Cardiovascular Disease
Vibeke Hjortdal
- 2:30 p.m. Mapping and Changing Lymphatic Flow in CHD
Yoav Dori
- 2:45 p.m. Challenges and Opportunities in Developing Catheter-based Lymphatic System Interventions
Christopher Smith
- 3 p.m. Post-procedural Care Following Lymphatic Intervention
Aaron DeWitt
- 3:15 p.m. Surgical Decompression of the Lymphatic System in the Fontan Circulation
Christian Kreutzer
- 3:30 p.m. Nutritional Aspects of Lymphatic Disorders
Melanie Savoca
- 3:45 p.m. Panel Discussion
Faculty
- 4 P.M. ADJOURN

Arrhythmia Focus 2021

Moderator: Maully Shah

- 2 p.m. Ventricular Arrhythmias: Significance and Management
Mitchell Cohen
- 2:15 p.m. Fetal Tachyarrhythmia Management
Edgar Jaeggi
- 2:30 p.m. Prenatal Diagnosis and Treatment of Congenital Complete Heart Block
Jay Pruetz
- 2:45 p.m. Ablation for Tachyarrhythmias: Indications and Tricks of the Trade
Ramesh Iyer
- 3 p.m. Innovations in Imaging for Mapping Ablation for WPW
Christopher Janson
- 3:15 p.m. What We Have Learned — and Unlearned — About Channelopathies
Shubhayan Sanatani
- 3:30 p.m. Arrhythmia in Hypertrophic Cardiomyopathy and in Arrhythmogenic Right Ventricular Cardiomyopathy
Maully Shah
- 3:45 p.m. Panel Discussion
Faculty
- 4 P.M. ADJOURN

Nursing Breakout — Cardiovascular Drug Update: Review of Drugs and Agents Used for Pediatric and Congenital Cardiovascular Care

Moderator: TBD

Faculty

4 P.M. ADJOURN

Thinking Outside the Box: Mechanical Circulatory Assist

Moderator: Kellie Schiavo

- 2 p.m. VADs for Babies; Berlin Heart vs. Pedimag
Tracy Geoffrion
- 2:15 p.m. HVAD vs. HM3 in the Pediatric Congenital Population
Katsuhide Maeda
- 2:30 p.m. Optimizing Anticoagulation for Mechanical Support: Is There a One-size-fits-all Strategy?
Matthew O'Connor
- 2:45 p.m. Centrimag Use in Pediatrics: Optimizing Use
James Reagor
- 3 p.m. Pedimag Long-term Care on a Short-term Device: Case Report
Kellie Schiavo
- 3:15 p.m. Tools to Streamline Care and Timing of Discharge for Mechanical Assist Patients
Rachel White
- 3:30 p.m. Panel Discussion
Faculty
- 4 P.M. ADJOURN

4 – 4:15 p.m. Break

continued>



continued from page 9

Plenary Session VII

What's New in Single Ventricle Care?

Moderator: Ram Subramanyan and Jack Rychik

- 4:15 p.m. Prenatal Factors Influencing Postnatal Outcomes
Jill Savla
- 4:30 p.m. Mechanical Support as Rescue: When and with What Tools?
Katsuhide Maeda
- 4:45 p.m. Impact and Value of Systematic Inter-stage Monitoring
Monique Gardner
- 5 p.m. Tricks of the Trade: ICU Strategies to Optimize Neuro-outcomes at Each Phase of Staged Reconstructive Care
Maryam Naim

- 5:15 p.m. Thromboprophylaxis: For Whom and with What Agents?
Alexander Egbe
- 5:30 p.m. Evidence Base for Drug Therapies in Management of Fontan Circulation
David Goldberg
- 5:45 p.m. Exercise and Fontan Circulation
Catherine Avitabile
- 6 p.m. Panel Discussion Q & A
Faculty
- 6:15 P.M. ADJOURN

FACULTY

Organizing Committee

Jack Rychik, MD, *Chair*
Stuart Berger, MD
Jonathan Chen, MD
Meryl Cohen, MD
Mitchell Cohen, MD
Andrew Costarino, MD, MSCE

William DeCampi, MD, PhD
Kathryn Dodds, MSN, CRNP
Nurse Planner
Denise Donaghue, MSN
Craig Fleishman, MD
Alan Friedman, MD
Stephanie Fuller, MD
J. William Gaynor, MD

David Goldberg, MD
Paul Kantor, MBBCh
Yuli Kim, MD
Sherri Kubis, RN, MSN, CCRN
Andreas Loepke, MD, PhD
Daniel Penny, MD, PhD
Jonathan Rome, MD

Tami Rosenthal, MBA, CCP, FPP
Joseph Rossano, MD
Mark Schwartz, MBA, Med
Robert Shaddy, MD
Maully Shah, MBBS
Girish Shirali, MBBS
James Steven, MD

Faculty

Jamil Aboulhosn, MD
UCLA Medical Center

Vivek Allada, MD
Children's Hospital of Philadelphia

Kiona Allen, MD
Lurie Chicago Children's Hospital

Tarek Alsaeid, MD
Cincinnati Children's Medical Center

Catherine Avitabile, MD
Children's Hospital of Philadelphia

Piers Barker, MD
Duke Children's Hospital and Health Center

Stuart Berger, MD
Lurie Chicago Children's Hospital

Natalie Bernard, RN, BSN
Children's Hospital of Philadelphia

Sarah Bond, PA-C
Children's Hospital of Philadelphia

Christopher Breuer, MD
Nationwide Children's Hospital

Michael Brewer, MS, CCP, FPP
Children's Hospital of New York-Presbyterian

Craig Broberg, MD
Oregon Health & Science University

Katherine Brown, MD, MPH
Great Ormond Street Hospital, London

Marissa Brunetti, MD
Children's Hospital of Philadelphia

Danielle Burstein, MD
Children's Hospital of Philadelphia

Jonathan Chen, MD
Children's Hospital of Philadelphia

Isaac Chinnappan CCP, LCP, FPP, CPBMT, CPBMS
Monroe Carell Jr Children's Hospital of Vanderbilt

Meryl Cohen, MD
Children's Hospital of Philadelphia

Mitchell Cohen, MD
Inova Fairfax Hospital

Haley Collier, PharmD, BCPPS, BCPS
Children's Hospital of Philadelphia

Jean Connor, PhD, RN, CPNP
Boston Children's Hospital

Andrew Costarino, MD, MSCE
Children's Hospital of Philadelphia

Liz Crowe, MSW
Lady Cilento Children's Hospital, Brisbane

William DeCampi, MD, PhD
Arnold Palmer Hospital for Children

Taylor Demkin, MSN, CRNP
Children's Hospital of Philadelphia

Aaron DeWitt, MD
Children's Hospital of Philadelphia

Kathryn Dodds, MSN, CRNP
Nurse Planner
Children's Hospital of Philadelphia

Thomas Dole, MBA
Children's Hospital of Philadelphia

Denise Donaghue, MSN <i>Children's Hospital of Philadelphia</i>	David Hoganson, MD <i>Boston Children's Hospital</i>	Laura Mercer-Rosa, MD, MSCE <i>Children's Hospital of Philadelphia</i>	Joseph Rossano, MD <i>Children's Hospital of Philadelphia</i>
Yoav Dori, MD, PhD <i>Children's Hospital of Philadelphia</i>	Viktor Hraska, MD, PhD <i>Children's Hospital of Wisconsin</i>	Shelley Miyamoto, MD <i>Children's Hospital Colorado</i>	Jack Rychik, MD <i>Children's Hospital of Philadelphia</i>
Stacey Drant, MD <i>Children's Hospital of Philadelphia</i>	Ramesh Iyer, MD, MBBS <i>Children's Hospital of Philadelphia</i>	Aymen Naguib, MD <i>Nationwide Children's Hospital</i>	Denver Sallee, MD <i>Children's Healthcare of Atlanta</i>
Alexander Egbe, MBBS, MPH <i>Mayo Clinic</i>	Ben Jacob, PA-C <i>Texas Children's Hospital</i>	Maryam Naim, MD, MSCE <i>Children's Hospital of Philadelphia</i>	Shubhayan Sanatani, MD <i>British Columbia Children's Hospital, Vancouver</i>
Matthew Elias, MD <i>Children's Hospital of Philadelphia</i>	Marshall Jacobs, MD <i>Johns Hopkins University</i>	Muhammad Nuri, MBBS <i>Seattle Children's Hospital</i>	Jill Savla, MD <i>Children's Hospital of Philadelphia</i>
Pam Finn, RN, MS, RCNS-BC <i>Children's Mercy Kansas City</i>	Edgar Jaeggi, MD <i>Hospital for Sick Children, Toronto</i>	James O'Brien, MD <i>Children's Mercy Kansas City</i>	Malanie Savoca, MS, RD, CNSC, LDN <i>Children's Hospital of Philadelphia</i>
Jamie Fitzgerald, BSN, CPHQ <i>Children's Hospital of Philadelphia</i>	Christopher Janson, MD <i>Children's Hospital of Philadelphia</i>	Matthew O'Connor, MD <i>Children's Hospital of Los Angeles</i>	Kellie Schiavo, CCP, FPP <i>Children's Hospital of Philadelphia</i>
Craig Fleishman, MD <i>Arnold Palmer Hospital for Children</i>	Joyce Johnson, MD <i>Lurie Chicago Children's Hospital</i>	Paul Offit, MD <i>Children's Hospital of Los Angeles</i>	Amy Schultz, MD <i>Seattle Children's Hospital</i>
Mark Fogel, MD <i>Children's Hospital of Philadelphia</i>	Matthew Jolley, MD <i>Children's Hospital of Philadelphia</i>	Richard Ohye, MD <i>C.S. Mott Children's Hospital</i>	Mark Schwartz, MBA, Med <i>Children's Hospital of Philadelphia</i>
Wayne Franklin, MD <i>Phoenix Children's Hospital</i>	Paul Kantor, MBBCh, MSc <i>Children's Hospital of Los Angeles</i>	Molly Oldeen, MS, CCP, FPP <i>Ann & Robert H. Lurie Children's Hospital of Chicago</i>	Robert Shaddy, MD <i>Children's Hospital of Los Angeles</i>
Alan Friedman, MD <i>Yale New Haven Medical Center</i>	Nadine Kasparian, PhD <i>Cincinnati Children's Medical Center</i>	Melissa Olen, MSN, FNP-C <i>Nicklaus Children's Hospital</i>	Maully Shah, MBBS <i>Children's Hospital of Philadelphia</i>
Kevin Friedman, MD <i>Boston Children's Hospital</i>	Rachel Keasen, MSN, CRNP <i>Children's Hospital of Philadelphia</i>	Alexander Opatowsky, MD, MPH, MMSc <i>Cincinnati Children's Medical Center</i>	Girish Shirali, MBBS <i>Children's Mercy Kansas City</i>
Stephanie Fuller, MD <i>Children's Hospital of Philadelphia</i>	Kirstie Keller, PhD <i>Additional Ventures, California</i>	Asif Padiyath, MD <i>Children's Hospital of Philadelphia</i>	John Simpson, MBChB <i>Evelina Children's Hospital, London</i>
Monique Gardner, MD <i>Children's Hospital of Philadelphia</i>	Yuli Kim, MD <i>Children's Hospital of Philadelphia</i>	Gail Pearson, MD, ScD <i>National Heart, Lung, Blood Institute, NIH</i>	Timothy Slesnick, MD <i>Children's Healthcare of Atlanta</i>
J. William Gaynor, MD <i>Children's Hospital of Philadelphia</i>	Adrienne Kovacs, PhD <i>Oregon Health & Science University</i>	Vasum Peiris, MD, MPH <i>Food & Drug Administration</i>	Christopher Smith, MD, PhD <i>Children's Hospital of Philadelphia</i>
Tracy Geoffrion, MD, MPH <i>Children's Hospital of Philadelphia</i>	Christian Kreutzer, MD <i>Hospital Universitario Astral, Buenos Aires</i>	Daniel Penny, MD, PhD <i>Texas Children's Hospital</i>	Andrea Sorbello, MSN, CRNP <i>Children's Hospital of Philadelphia</i>
Matthew Gillespie, MD <i>Children's Hospital of Philadelphia</i>	Jacqueline Kreutzer, MD <i>Children's Hospital of Pittsburgh</i>	Michael Pizzi, RN <i>Children's Hospital of Philadelphia</i>	Michelle Steltzer, CPNP-AC/PC <i>Lurie Children's Hospital</i>
Andrew Glatz, MD, MSCE <i>Children's Hospital of Philadelphia</i>	Eric Krieger, MD <i>Seattle Children's Hospital</i>	Jay Pruetz, MD <i>Children's Hospital of Los Angeles</i>	James Steven, MD <i>Children's Hospital of Philadelphia</i>
Caren Goldberg, MD <i>C.S. Mott Children's Hospital</i>	Sherri Kubis, RN, MSN, CCRN <i>Children's Hospital of Philadelphia</i>	Michael Quartermain, MD <i>Children's Hospital of Philadelphia</i>	Miriam Stewart, MD <i>Children's Hospital of Philadelphia</i>
David Goldberg, MD <i>Children's Hospital of Philadelphia</i>	Lisa Laddish, DNP, CPNP-AC <i>Children's Mercy Kansas City</i>	James Quintessenza, MD <i>Johns Hopkins All Children's Hospital</i>	Ram Subramanyan, MD, PhD <i>Children's Hospital of Los Angeles</i>
Elizabeth Goldmuntz, MD <i>Children's Hospital of Philadelphia</i>	Mark Lewin, MD <i>Seattle Children's Hospital</i>	James Reagor, BS, MPS, CCP, FPP <i>Cincinnati Children's Medical Center</i>	Paul Viviano, MBA <i>Children's Hospital of Los Angeles</i>
Dan Gomez, MT, CCP, FPP <i>Nationwide Children's Hospital</i>	Daniel Licht, MD <i>Children's Hospital of Philadelphia</i>	Joshua Robinson, MD <i>Lurie Chicago Children's Hospital</i>	Rachel Wald, MD <i>Hospital for Sick Children, Toronto</i>
Nalaka Gooneratne, MD, DABSM <i>University of Pennsylvania</i>	Andreas Loepke, MD, PhD <i>Children's Hospital of Philadelphia</i>	Lindsay Rogers, MD <i>Children's Hospital of Philadelphia</i>	Rachel White, BSN, RN, CCTC <i>Children's Hospital of Philadelphia</i>
Alyssa Hager, Pharm.D. <i>Children's Hospital of Philadelphia</i>	Angela Lorts, MD <i>Cincinnati Children's Medical Center</i>	Jonathan Rome, MD <i>Children's Hospital of Philadelphia</i>	David Winlaw, MBBS, MD <i>Cincinnati Children's Medical Center</i>
Hakon Hakonarson, MD, PhD <i>Children's Hospital of Philadelphia</i>	Katsuhide Maeda, MD <i>Children's Hospital of Philadelphia</i>	Amy Romer, MD <i>Children's Hospital of Philadelphia</i>	Howard Zucker, MD, JD <i>New York State Department of Health</i>
Jenna Heichel, MSN, BSN, CRNP <i>Children's Hospital of Philadelphia</i>	Audrey Marshall, MD, MPH <i>Hospital for Sick Children, Toronto</i>	Tami Rosenthal, MBA, CCP, FPP <i>Children's Hospital of Philadelphia</i>	Taylor Zulli, PA-C <i>Children's Hospital of Philadelphia</i>
Vibeke Hjordtal, MD, PhD <i>Copenhagen University Hospital, Rigshospitalet</i>	Christopher Mascio, MD <i>Children's Hospital of Philadelphia</i>		

See You
Next Year

CARDIOLOGY 2022

*25th Annual Update on
Pediatric and Congenital
Cardiovascular Disease*

Hyatt Regency,
Huntington Beach, Calif.

Presidents' Day Weekend!

FEBRUARY 16 – 20, 2022

Huntington Beach, California

