

20th Annual
Update on Pediatric and Congenital Cardiovascular Disease

Care at the Cutting Edge in a Cost-conscious World

Cardiology ♥2017

Feb. 22 – 26, 2017

Disney's Yacht & Beach Club
Resorts • Orlando, Fla.



A comprehensive post-graduate course for pediatric cardiologists, intensivists, surgeons, nurses, neonatologists, anesthesiologists, ACHD specialists, sonographers, perfusionists, and all those involved in the care of patients with pediatric and congenital cardiovascular disease.

**Special Featured
Preconference
Symposium with
International Faculty:
Challenges After
Fontan Operation**



Dear Colleagues,

There's never been a more exciting time to work in our field. New knowledge is being generated daily, and improvements in care are developing very quickly. At the same time, we are finding ways to offer increased value in healthcare and provide the latest breakthroughs for our patients. Keeping up with the latest developments in the field can be a challenge.

It is with this in mind that we present our 2017 conference, the 20th Annual Update on Pediatric and Congenital Cardiovascular Disease: Care at the Cutting Edge in a Cost-conscious World. At this informative and thought-provoking event, we will share cost-conscious strategies for incorporating the latest breakthroughs in medicine and biology into our patients' care and discuss the fundamentals of pediatric and congenital cardiovascular care.

As always, it will be an exciting few days, filled with opportunities to connect with colleagues from a variety of disciplines — and have the kinds of discussions that make working in our field so intellectually challenging, invigorating and fun.

We look forward to seeing you in Orlando!

Jack Rychik, MD, and the Cardiology 2017 Organizing Committee

Course Highlights 2017

- Updates on the latest science and clinical management strategies in pediatric and congenital cardiovascular medicine and surgery from visionary experts in the field
- Special preconference session on the challenges facing the patient with a single ventricle and Fontan circulation. An esteemed international group of experts will offer their insights into the problem and discuss what the future holds for these patients
- Comprehensive preconference primer on postoperative care for congenital heart disease for nursing and other front-line providers
- Premier opening plenary session on creative ideas and innovations under the banner “Will we ever have...?”
- Plenary sessions on healthcare value, the lymphatic system, physical activity, and global health perspectives on congenital heart care
- Special plenary session on the mitral valve, with presentation by the world-renowned mitral valve surgeon David Adams, MD
- Sunday brunch roundtable plenary on important clinical questions in pediatric and congenital heart care
- Nursing track with special breakout sessions, pharmacology review, clinical cases and nursing abstract presentations
- Entertaining and informative “panel of experts” discussions
- Breakout sessions on a variety of topics, including care for adults with congenital heart disease, heart care before birth, pulmonary hypertension, nutrition and feeding, and making the transition from hospital to home
- Breakout sessions with comprehensive reviews of tetralogy of Fallot, transposition of the great arteries and coarctation of the aorta. Speakers will cover topics ranging from anatomy and diagnosis to therapeutics and long-term outcomes
- Dedicated track for perfusion specialists
- Featured Rashkind (cardiology), Lillehei (surgery), Downes (critical care and anesthesia), Rauch (nursing), and basic and translational science lectures by renowned luminaries in the field
- Scientific abstract poster presentations and competition for best oral abstract presentation
- Third Annual 5K Heart Fun Run
- Opening night reception, 20-year celebration of our conference, special luncheons and other social and networking events

Course Objectives 2017

At the completion of this program, participants 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
- Understand the concepts of healthcare value and its relevance to pediatric and congenital cardiovascular disease
- Understand the emerging role of the lymphatic system in congenital heart disease
- Appreciate the uniqueness of the mitral valve and identify the latest care strategies
- Review the risks and benefits of physical activity in congenital heart disease
- Discuss the latest concepts and treatment strategies in pulmonary hypertension
- Describe management and outcomes for complex congenital heart disease
- Find answers to many questions related to the clinical care of patients with congenital heart disease
- Understand the principles behind the novel and emerging field of heart care before birth
- Describe the latest research and clinical strategies for the adult with congenital heart disease
- Explain the challenges and solutions for easing the transition from inpatient hospital to outpatient care
- Comprehend the emerging recognition of complications and identify solutions for the patient after Fontan operation
- Understand 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
- Understand the underlying principles and best practices for post-operative care by nurses and other front-line providers for the neonate with congenital heart disease

Call for Abstracts

Abstract Submission Deadline:

Friday, Nov. 4, 2016 (Noon EST)

Notification of Acceptance:

Monday, Nov. 28, 2016

Poster Presentations:

**Thursday, Feb. 23, Friday, Feb. 24
and Saturday, Feb. 25, 2017**

Oral Presentations:

**Thursday, Feb. 23 and
Friday, Feb. 24, 2017**

Award Presentations:

Saturday, Feb. 25, 2017

Course participants are encouraged to submit abstracts for consideration for the Annual Outstanding Physician Scientist and Nurse Scientist Awards. Abstracts will be accepted in all aspects of cardiovascular care, including cardiac issues in the neonatal and pediatric intensive care units; cardiovascular nursing; inpatient and outpatient cardiology; surgical, anesthesia and perfusion research; and basic cardiovascular science. Abstracts are graded by the faculty in a blinded fashion.

Accepted Abstracts:

Accepted abstracts will be considered for publication in *The World Journal for Pediatric and Congenital Heart Surgery* (pch.sagepub.com).

On Thursday, Feb. 23 and Friday, Feb. 24, 2017, the top abstracts will be presented as eight-minute oral presentations and the top nursing abstracts will be presented in a dedicated breakout session. Remaining accepted abstracts will be presented in one of three poster sessions during the meeting.

The course faculty will select the recipients of the Annual Outstanding Physician Scientist Award and the Annual Outstanding Nurse Scientist Award. The award winners will each be recognized at the featured award plenary session on Saturday, Feb. 25, 2017, and will receive a complimentary registration for Cardiology 2018 and a \$500 travel grant.

Electronic submission only. See www.chop.edu/cardiology2017.

Abstract acceptance does not include course registration fee or hotel accommodations.

Registration

The conference will be held Wednesday, Feb. 22 through Sunday, Feb. 26, 2017 at Disney's Yacht & Beach Club Resorts in Orlando, Fla. Registration will take place on Wednesday, Feb. 22 from 6:30 a.m. to 6 p.m. and Thursday, Feb. 23 from 6:30 a.m. to 6 p.m.

Course Fees

The registration fee for the five-day conference is \$950 for physicians and \$595 for other healthcare professionals and physicians-in-training. The registration fee includes tuition, online presentations, daily continental breakfast and lunch.

Physicians.....	\$950
Nurses, Medical Students, Residents, Fellows and Other Healthcare Professionals	\$595

Optional Preconference Seminars

International Symposium on Challenges Faced after Fontan Operation: Next Steps to Improve Quality and Duration of Life..... \$150

Postoperative Management and Congenital Heart Disease: A Comprehensive Primer Review for Nursing and Front-line Providers \$150

Starting and Maintaining a Successful Career in Congenital Heart Care \$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 38.0 *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:

Wednesday, Feb. 22: Optional Preconference Seminars – 8 a.m. to 3:30 p.m.

International Symposium on Challenges Faced after Fontan Operation – 6.0 *AMA PRA Category 1 Credits™*

Postoperative Management and Congenital Heart Disease – 6.25 *AMA PRA Category 1 Credits™*

Starting and Maintaining a Successful Career in Congenital Heart Care – 5.0 *AMA PRA Category 1 Credits™*

Wednesday, Feb. 22 (p.m.) to Sunday, Feb. 26: Main Conference

Total – 31.75 *AMA PRA Category 1 Credits™*

Nursing Accreditation

This activity has been submitted to the PA State Nurses Association for approval to award contact hours. The PA State Nurses Association is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

Perfusion Accreditation

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, Feb. 3, 2017. Refunds will be issued for the amount of registration less a \$75 service charge.

Hotel Information

A block of rooms has been reserved at Disney's Yacht & Beach Club Resorts. The group rate is \$249 single or double occupancy plus a 12.5 percent room tax. This rate includes Internet access in guest rooms and Conference Center. Participants are required to make their own hotel reservations by calling the hotel directly at 407-939-4686 or online at resweb.passkey.com/go/CHOPPediatricCardiology2017. For the reduced conference rate, mention the name of the conference when making your reservation. The conference rate covers Feb. 20 – Feb. 29, 2017, and will be available only until Monday, Feb. 1, 2017. Reservations made after Feb. 1 will be accepted based on space and rate availability.



Wednesday, Feb. 22

Optional Preconference 1:

International Symposium on Challenges Faced after Fontan Operation: Next Steps to Improve Quality and Duration of Life

- 7:45 a.m. **Opening Remarks**
Jack Rychik, MD
- 8 a.m. **Survival Outcomes for the Fontan Operation: Australia and New Zealand Experience**
Yves D'Udekem, MD
- 8:15 a.m. **Survival Outcomes for the Fontan Operation: The CHOP Experience**
J. William Gaynor, MD
- 8:30 a.m. **Survival Outcomes for the Fontan Operation: The Mayo Clinic Experience**
Frank Cetta, MD
- 8:45 a.m. **Biological Uniqueness of the Right Ventricle in Single Ventricle Type CHD: Potential Influence on Outcomes**
Shelley Miyamoto, MD
- 9 a.m. **Distinctions of Failure: When the Single (Right) Ventricle Fails**
Andrew Redington, MD
- 9:15 a.m. **Exercise and Hemodynamic Limitations in the Fontan Circulation**
Lars Sondergaard, MD
- 9:30 a.m. **Assessment and Accurate Physiological Evaluation of the Fontan Circulation: What Are We Missing?**
Gruschen Veldtman, MD
- 9:45 a.m. **Designing the Best Fontan Circulation Possible: If I Could This Is What I Would Emphasize and Why**
Marc Gewillig, MD
- 10 a.m. **Panel Discussion**
Faculty
- 10:15 a.m. **Break**
- 10:30 a.m. **Functional Outcome and Quality of Life After Fontan: Contributions from the Pediatric Heart Network**
Andrew Atz, MD
- 10:45 a.m. **End-organ Consequences: Defining the Pleiotropy of a "Fontan Circulatory Syndrome"**
Jack Rychik, MD
- 11 a.m. **Neurocognitive Outcomes after Fontan Operation**
Jane Newburger, MD
- 11:15 a.m. **Fontan Effects on the Lymphatic Circulation**
Yoav Dori, MD, PhD
- 11:30 a.m. **Exercise Training after Fontan: Can It Make a Difference?**
Rachael Cordina, MD
- 11:45 a.m. **Panel Discussion**
Faculty
- Noon **Lunch**

- 1 p.m. **Thromboembolism and Anticoagulation after Fontan: Where Are We Now?**
Brian McCrindle, MD
- 1:15 p.m. **Pharmacological Treatment: The Promise of a "Fontan Drug"**
David Goldberg, MD
- 1:30 p.m. **Challenges and Opportunities in Establishing a Specialized Clinic to Care for the Fontan Survivor**
Kathryn M. Dodds, MSN, CRNP-AC
- 1:45 p.m. **Ventricular Assist after Fontan: Potential Devices and the Question of Whether to "Push" or to "Pull"**
Christopher E. Mascio, MD
- 2 p.m. **Parental Fears and Desires: What I Need to See From the Healthcare Community for My Daughter**
Stacey Lihn
- 2:15 p.m. **My Life with a Fontan Circulation ...**
Brian Rose, RN
- 2:30 p.m. **The International Fontan Interest Group (I-FIG): What Our Community Needs to Do**
Faculty Panel led by Yves D'Udekem, MD
- 3:15 p.m. **Adjourn**



Optional Preconference 2:

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

7:30 a.m.	Defining “Normal” Cardiac Anatomy <i>Paul Weinberg, MD</i>	11:20 a.m.	Tetralogy of Fallot Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>James O’Brien, MD</i> Postoperative Care and Outcomes – <i>Lisa Laddish, RN, DNP, CPN-AC</i>
7:45 a.m.	How Soon Can We Know? <i>Jill Combs, MSN</i>	11:40 a.m.	Truncus Arteriosus Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>William DeCampi, MD, PhD</i> Postoperative Care and Outcomes – <i>Kathryn M. Dodds, MSN, CRNP-AC</i>
8 a.m.	Screening, Diagnosis and Preoperative Assessments <i>Kathryn M. Dodds, MSN, CRNP-AC</i>	Noon	D-Transposition of the Great Arteries Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>Christopher E. Mascio, MD</i> Postoperative Care and Outcomes – <i>Kathryn M. Dodds, MSN, CRNP-AC</i>
8:15 a.m.	Open Heart Surgery: What’s Going On in the Operating Room? <i>Susan Nicolson, MD</i>	12:20 p.m.	Lunch
8:30 a.m.	Early Postoperative Management <i>Geoffrey L. Bird, MD, MSIS</i>	12:40 p.m.	Total Anomalous Pulmonary Venous Connection Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>James O’Brien, MD</i> Postoperative Care and Outcomes – <i>Patricia Sieffert, MSN, ARNP</i>
8:45 a.m.	Break	1 p.m.	Coarctation of the Aorta Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>William M. DeCampi, MD, PhD</i> Postoperative Care and Outcomes – <i>Lisa Laddish, RN, DNP, CPN-AC</i>
9 a.m.	ECHO: Effusions, Function, Obstruction, Regurgitation, Thrombus, and Holes <i>David Goldberg, MD</i>	1:20 p.m.	The “Single Ventricle” Heart: Staged Palliation from First Stage Through Fontan Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>Christopher E. Mascio, MD</i> Postoperative Care and Outcomes – <i>Kathryn M. Dodds, MSN, CRNP-AC</i>
9:15 a.m.	What the Chest X-ray Can and Cannot Show You <i>Geoffrey L. Bird, MD, MSIS</i>	2:20 p.m.	Discharge Planning and Home Monitoring <i>Karen Iacono, MSN, ARNP-BC</i>
9:30 a.m.	How to Decipher Cardiac Catheterization Data <i>Matthew Schwartz, MD</i>	2:35 p.m.	The Brain and Congenital Heart Disease <i>Daniel Licht, MD</i>
9:45 a.m.	Postoperative Arrhythmias: SVT, JET, Heart Block, VT <i>Maully Shah, MBBS</i>	2:50 p.m.	Growing Up with Congenital Heart Disease <i>Yuli Kim, MD</i>
10 a.m.	ECMO and Mechanical Support in Children with CHD <i>Chitra Ravishankar, MD</i>	3:05 p.m.	Q & A
10:15 a.m.	Sedation and Pain Management after Cardiac Surgery <i>Jodi Chen, MD</i>	3:30 p.m.	Adjourn
10:30 a.m.	Break		
10:40 a.m.	Ventricular Septal Defect Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>William M. DeCampi, MD, PhD</i> Postoperative Care and Outcomes – <i>Patricia Sieffert, MSN, ARNP</i>		
11 a.m.	Complete Common Atrioventricular Canal Defect Anatomy and Morphology – <i>Paul Weinberg, MD</i> Surgery – <i>James O’Brien, MD</i> Postoperative Care and Outcomes – <i>Lisa Laddish, RN, DNP, CPN-AC</i>		

Optional Preconference 3:

Starting and Maintaining a Successful Career in Congenital Heart Care

8 a.m.	The Training: How to Get the Most Out of Your Fellowship <i>Meryl Cohen, MD</i>	10:30 a.m.	The Job: Practical Aspects of Starting Out – What You Need to Know and How to Do It <i>Mark Schwartz, MBA</i>
8:20 a.m.	The Training: How to Select the Right Scholarly Project <i>Sara Pasquali, MD, MHS</i>	11 a.m.	The Job: Elements of a Successful Career in Private Practice I <i>Zvi Marans, MD</i>
8:40 a.m.	The Training: From Concept through Publication – Taking a Research Question and Turning it into Disseminated and Accepted Knowledge <i>David Goldberg, MD</i>	11:20 a.m.	The Job: Elements of a Successful Career in Private Practice II <i>Vincent Zales, MD</i>
9 a.m.	The Training: Mentoring and Menteeing – Finding the Right Match <i>Nelangi Pinto, MD</i>	11:40 a.m.	The Job: Elements of a Successful “Junior” Career in Academic Pediatric Cardiology <i>Andrew Glatz, MD, MSCE</i>
9:20 a.m.	The Training: Presenting Your Findings and Learning How to Give that Great Talk! <i>Girish S. Shirali, MBBS</i>	Noon	Lunch Panel: Informal Question and Answer Discussion
9:40 a.m.	Panel Discussion <i>Faculty</i>	1 p.m.	The Job: How I Go About Choosing the Right Faculty to Join My Group <i>Daniel Penny, MD, PhD</i>
10 a.m.	Break	1:20 p.m.	The Job: What I Expect from My Junior Faculty <i>Robert Shaddy, MD</i>
		1:40 p.m.	My Self: Professionalism and Behaviors that Breed Success <i>Alan Friedman, MD</i>
		2 p.m.	My Self: Sustaining a Successful Career and Life-Work Balance <i>Faculty</i>
		2:30 p.m.	Adjourn

Wednesday, Feb. 22

Opening Plenary Session I • 4 – 6:35 p.m.

4 p.m. Opening Remarks and Introduction to the Conference
Jack Rychik, MD

Will We Ever Have ...

4:15 p.m. Mechanical Circulatory Support for the Failing Fontan?
Mark Rodefeld, MD

4:35 p.m. A Comprehensive Understanding of the Origins of Neurocognitive Deficits in Congenital Heart Disease?
Catherine Limperopolis, PhD

4:55 p.m. Effective Treatment for Pulmonary Veno-occlusive Disease?
Christopher Caldarone, MD

5:15 p.m. A Reliable Means to Predict Sudden Death in the Young?
John Friedman, MD

5:35 p.m. An Ideal Transcatheter Approach to the Treatment of HLHS?
Dietmar Schranz, MD

5:55 p.m. A Complete Understanding of the Genetics of Congenital Heart Disease?
Wendy Chung, MD, PhD

6:15 p.m. The Possibility of Pacing the Fetal Heart?
Yaniv Bar-Cohen, MD

6:35 p.m. Adjourn

6:45 – 9:30 p.m. — Join us for the 20th Anniversary Celebration of our Pediatric and Congenital Cardiovascular Conference

Food, bar and beverages, Disney characters, games, a DJ for the kids, jazz for the adults and much, much more for a memorable and fun-filled evening!

Fees: Conference Registrant Free
Additional Adult \$35
Kids (ages 3-15) \$30

Sponsored by:



Thursday, Feb. 23

7 – 8 a.m. Breakfast Forum I

Nursing Pharmacology: Diuretics, Heart Failure Meds, ACEi/ARBs, Amiodarone and Adenosine: What We Should Know About These Medications

Kathryn M. Dodds, MSN, CRNP-AC

Lisa Laddish, RN, DNP, CPN-AC

Grace George, MSN, FNP

Ashley Marshall, MSN, CPNP-AC

Amber Huddleston, MSN, CPNP-PC

7 – 8 a.m. Breakfast Forum II

Fundamentals in Pediatric and Congenital Heart Care Case Based EKG

Mitchell I. Cohen, MD

Maully Shah, MBBS

Yaniv Bar-Cohen, MD

Plenary Session II

Lymphatics: The Forgotten Circulatory System

8 a.m. Anatomy and Physiology: Current Understandings of the Lymphatic System
Marlys H. Witte, MD

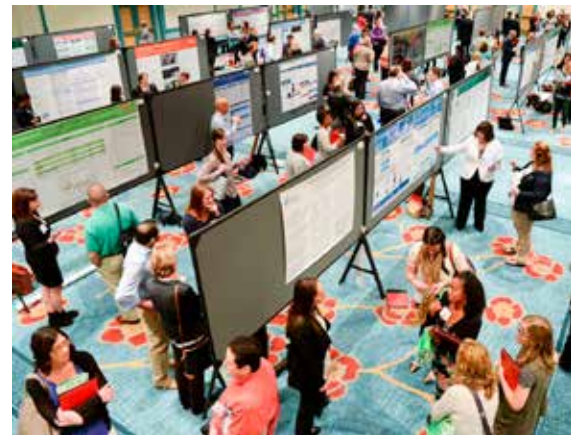
8:15 a.m. Development of Lymphatic Treatment Strategies Through Catheter-based Interventional Techniques
Maxim Itkin, MD

8:30 a.m. Lymphatic Imaging: The Window Is Open for Treatment in Congenital Heart Disease
Yoav Dori, MD, PhD

8:45 a.m. Surgical Strategies for Lymphatic Conditions in Pediatric and Congenital Heart Disease
Viktor Hraska, MD

9 a.m. Clinical Cases and Conundrums in Lymphatic Disease
Faculty Panel

10 – 11 a.m.
Break/Visit Exhibits/Poster Session I



11 a.m. – 1 p.m. Breakout Sessions
(see Page 10 for sessions)

1 – 2 p.m. Outdoor Buffet Lunch on the Beach

2 – 3 p.m. Moderated Panel of Experts

**You Think You Know Tetralogy of Fallot?
The Unanswered Questions**

Andrew Redington, MD (Discussion Leader)

Mark Fogel, MD

Elizabeth Goldmuntz, MD

Viktor Hraska, MD

Audrey Marshall, MD

Jonathan J. Rome, MD

Thomas L. Spray, MD

3 – 3:15 p.m. Break

3:15 – 4:15 p.m. Oral Abstracts

Plenary Session III

**Healthcare Value in Pediatric and Congenital
Heart Care**

4:15 p.m. What Is Value in Pediatric Healthcare and How Can
We Effectively Provide It?

Douglas G. Hock, MBA

4:30 p.m. Government Healthcare Policy and Congenital
Heart Disease

Elizabeth Goldmuntz, MD

4:45 p.m. Towards the Goal of Achieving Healthcare Value in
Congenital Heart Care: What Is Necessary?

Sara Pasquali, MD, MHS

5 p.m. Concepts on Improving Value and Team-based Care
in Congenital Heart Health

Arthur Garson Jr., MD, MPH

5:15 p.m. Healthcare Value: The Payor Perspective

Marc Keshishian, MD

5:30 p.m. Panel Participant: Payor Perspective

Marc Keshishian, MD

Panel Participant: Patient and Family Perspective

Stacey Lihn

Panel Participant: Chief of Cardiology Perspective

Daniel Penny, MD, PhD

Panel Discussion Leader

Robert Campbell, MD

6:30 p.m. Adjourn



Thursday, Feb. 23

Simultaneous Breakout Sessions:

11 a.m. – 1 p.m.

Breakout Session I

Nursing — Truth or Fiction: What Does the Evidence Say?

- 11 a.m. Does Interstage Follow-up Matter?
Lori Erickson, MSN, APRN
- 11:20 a.m. Should We Restrict Exercise in CHD Patients?
Juli-anne Evangelista, DNP, APRN, CPNP-AC
- 11:40 a.m. Utility of Vasopressin in CHD Care?
Karen Iacono, MSN, ARNP-BC
- Noon Utility of Treprostinil in Care for Pulmonary Hypertension?
Stephen Walker, MSN, CRNP
- 12:20 p.m. No Pressure: Do Unit-Based Experts Make a Difference in HAPI (Hospital Acquired Pressure Injury) Prevention?
Margaret Cates, BSN, RN, CCRN
- 12:40 p.m. Is “Handoff” Really That Important?
Erika L. Wintering, MSN, RNFA, PNP-AC
- 1 p.m. Adjourn

Breakout Session II

Advances in Heart Failure and Transplantation in Pediatric and Congenital Cardiovascular Disease

- 11 a.m. Mechanisms of Heart Failure in the Young: Origins and Pathophysiology
Shelley Miyamoto, MD
- 11:15 a.m. Heart Failure in Friedreich’s Ataxia and Other Neurological Conditions
Kimberly Lin, MD
- 11:30 a.m. New Heart Failure Drugs: Are They an Improvement?
Damien Bonnet, MD, PhD
- 11:45 a.m. Management of Heart Failure in the Critical Care Unit
Antonio Cabrera, MD
- Noon Pulmonary Arterial Banding for Dilated Cardiomyopathy
Dietmar Schranz, MD
- 12:15 p.m. There Is No Way We Should Transplant This Patient: The Challenges of Risk Stratification in Pediatric Heart Transplantation
Joseph Rossano, MD
- 12:30 p.m. Update on Mechanical Circulatory Support in the Pediatric and Congenital Heart Patient
Christopher E. Mascio, MD
- 12:45 p.m. Panel Discussion Q & A
Faculty
- 1 p.m. Adjourn

Breakout Session III

Healthcare Administration: Providing Value in Pediatric and Congenital Cardiovascular Care

- 11 a.m. Pediatric Healthcare Value in a Changing Environment: How Best to Prepare for the Future
Patrick Frias, MD
- 11:15 a.m. Creating Value in Congenital Heart Surgery: Technical Performance and a Systems Approach to Operative Errors
Edward Hickey, MD
- 11:30 a.m. Congenital Heart Disease and the Cost of Mortality
Jeffrey B. Anderson, MD, MPH, MBA
- 11:45 a.m. Integrating Community Practices into the Hospital Healthcare System: Challenges and Opportunities
Mark Schwartz, MBA
- Noon The Future: When Healthcare Value Equals Reimbursement — How Do We Get There?
Maryanne Kessel, RN, MBA
- 12:15 p.m. Incorporating Healthcare Value into the Management of the Division of Cardiology
Robert Shaddy, MD
- 12:30 p.m. Panel Discussion Q & A
Faculty
- 1 p.m. Adjourn



Breakout Session IV

Advanced Imaging in Congenital Heart Care

- 11 a.m. **Computational Flow Dynamics in Congenital Heart Disease: Research Tool or of Clinical Value?**
Mark Fogel, MD
- 11:15 a.m. **Role of Imaging and Effectiveness of Cardiac Resynchronization Therapy in Patients with Congenital Heart Disease**
Daniel Forsha, MD
- 11:30 a.m. **Cardiac Magnetic Resonance Assessment of Ischemia, Infarction and Fibrosis in Congenital Heart Disease**
Lars Grosse-Wortmann, MD
- 11:45 a.m. **The Tools for Assessment of Right Ventricular Function in Congenital Heart Disease**
Laura Mercer-Rosa, MD
- Noon **Noninvasive Cardiovascular Imaging During ECMO and Ventricular Assist Device Therapy**
Michael Quartermain, MD
- 12:15 p.m. **Utility of 3D Echo to Enhance Congenital Heart Surgery Decision Making**
John Simpson, MD
- 12:30 p.m. **Neural Network Topology, the Brain “Connectome” and Congenital Heart Disease**
Ashok Panigrahy, MD
- 12:45 p.m. **Panel Discussion Q & A**
Faculty
- 1 p.m. **Adjourn**

Breakout Session V

Care and Management of Transposition of the Great Arteries Throughout Life

- 11 a.m. **Anatomical Considerations and Preoperative Imaging**
Meryl Cohen, MD
- 11:15 a.m. **Prenatal Diagnosis and Physiological Considerations**
Damien Bonnet, MD, PhD

- 11:30 a.m. **Surgery for TGA: The Arterial Switch and Other Subsequent Surgeries**
Thomas L. Spray, MD
- 11:45 a.m. **Catheter-based Care Throughout Life for TGA**
David Nykanen, MD
- Noon **Neurocognitive Deficits and Their Origins in TGA**
Daniel Licht, MD
- 12:15 p.m. **Outcomes and Care for the Adult with TGA**
Yuli Kim, MD
- 12:30 p.m. **Panel Discussion Q & A**
Faculty
- 1 p.m. **Adjourn**

Breakout Session VI

Perfusion — VADS Fads!

- 11 a.m. **Tandem Heart Use in Pediatrics**
Bradley Kulat, CCP
- 11:15 a.m. **In Neonatal ECMO: Centrifugal Versus Roller – Does the Pump Make a Difference?**
Gary Plancher, CCP
- 11:30 a.m. **Mechanical Support: How Small Is Too Small?**
Joseph Rossano, MD
- 11:45 a.m. **Optimizing the ECMO Circuitry: Does Newer Truly Mean Better?**
Kellie Schiavo, CCP
- Noon **Heartware Bivard: Trials and Tribulations**
Christopher E. Mascio, MD
- 12:15 p.m. **Moderated Panel of Experts: VADS**
Hamish Munro, MD (Moderator)
Kevin Charette, CCP
Bharat Datt, CCP, CPC, FPP
Christopher E. Mascio, MD
- 1 p.m. **Adjourn**



Friday, Feb. 24

7 a.m. **Breakfast Forum III**
Fundamentals in Pediatric and Congenital
Heart Care Case-based Hemodynamics
Matthew Schwartz, M.D.

Plenary Session IV

Physical Activity in Congenital and Pediatric Cardiovascular Disease

- 8 a.m. **Exercise Potential in ACHD: The Patient Perspective**
Brian Rose, RN
- 8:15 a.m. **Congenital Heart Conditions and Exercise: What Is Safe?**
Julie Brothers, MD
- 8:30 a.m. **Pediatric Arrhythmia and Exercise: What Is Safe?**
Maully Shah, MBBS
- 8:45 a.m. **Legal Aspects of Physical Activity and Exercise in
Congenital Heart Care**
Benjamin Post, JD
- 9 a.m. **Physiological Limitations to Exercise after Fontan
Operation: Are There Any Modifiable Variables?**
Rachael Cordina, MD
- 9:15 a.m. **Cardiac Rehabilitation in Pediatric and Congenital
Cardiovascular Disease: Is There Merit? If So, Why Is it
Not More Commonly Used?**
Jonathan Rhodes, MD
- 9:30 a.m. **Obesity in Congenital Heart Disease**
Meryl Cohen, MD
- 9:45 a.m. **Q & A**
Faculty Panel

10 – 11 a.m.
Break/Visit Exhibits/Poster Session II

11 a.m. – 1 p.m. **Breakout Sessions**
(see Page 14 for sessions)

1 – 4 p.m. **Lunch on your own and afternoon break –
visit the parks!**



4 – 5 p.m. **Oral Abstracts**

Plenary Session V

Featured Plenary: A Focus on the Mitral Valve

- 5 p.m. **Anatomical Structure: Normal and Abnormal**
Paul Weinberg, MD
- 5:15 p.m. **The Mitral Valve – Left Ventricle Relationship: Assessment
of Structure and Function**
LuAnn Minich, MD
- 5:30 p.m. **Mitral Valve Mechanics and the Promise of Catheter-based
Treatment in Children**
Matthew Gillespie, MD
- 5:45 p.m. **Surgical Repair of the Faulty Mitral Valve: A Congenital
Heart Surgeon's Perspective**
Richard Ohye, MD
- 6 p.m. **Special Featured Lecture:
State-of-the-Art Treatment of
Mitral Valve Disease**
David Adams, MD
- 6:30 p.m. **Q & A**
Faculty Panel
- 6:45 p.m. **Adjourn**





Friday, Feb. 24

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

Breakout Session I

Nursing Research and Oral Abstracts

- 11 a.m. The top eight nursing abstracts will be formally presented and discussed.

Breakout Session II

From Hospital to Home in Pediatric Cardiac Care

- 11 a.m. Discharge to Home: The Inpatient Cardiologist Perspective
Susan Schachtner, MD
- 11:15 a.m. Discharge to Home: What the Outpatient Receiving Cardiologist Wants and Needs to Know
Zvi Marans, MD
- 11:30 a.m. The Continuum of Care: Focused Outpatient Monitoring and Management for the At-Risk Fragile Neonate After Staged Palliation – Can We Improve on Outcomes?
David Brown, MD
- 11:45 a.m. Technology to Improve Home Care for the Infant and Child with Heart Disease
Girish S. Shiral, MBBS
- Noon Care for the Fragile Patient with Pulmonary Hypertension Outside of the Hospital
Stephen Walker, MSN, CRNP
- 12:15 p.m. Returning to Normal: Life Out of the Hospital for a Pediatric VAD Patient
Carley Bober, MSN, CRNP
- 12:30 p.m. Q & A
Faculty Panel
- 1 p.m. Adjourn

Breakout Session III

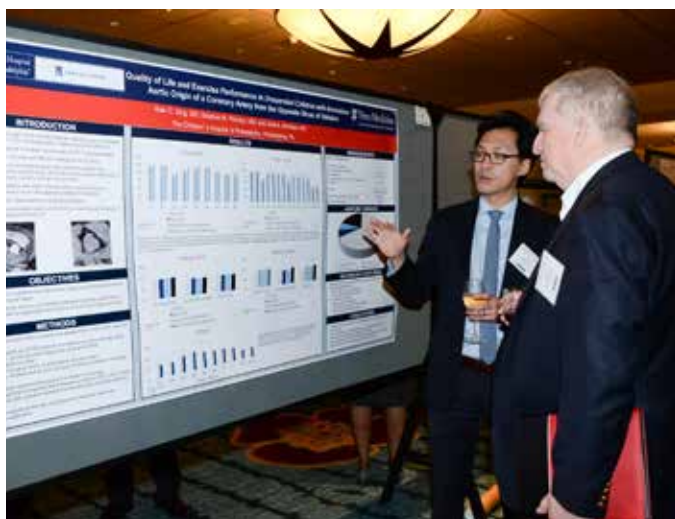
Topics in Critical Care and Anesthesia in Pediatric and Congenital Cardiovascular Disease

- 11 a.m. Using National and Local Databases to Drive Improvement in the Cardiac Intensive Care Unit
Geoffrey L. Bird, MD, MSIS
- 11:15 a.m. Anesthesia and Operative Monitoring: Impact on Neurodevelopmental Outcomes in CHD
Kenneth Brady, MD
- 11:30 a.m. Simulation-based Training for Critical Conditions in Congenital Heart Care
Antonio Cabrera, MD
- 11:45 a.m. Team Communication in the Cardiac Intensive Care Unit and Examination of the Handoff Process
Jodi Chen, MD
- Noon New Developments and Insights in the Management of Pediatric Sepsis
Vinay Nadkarni, MD
- 12:15 p.m. Cardiac Anesthetic Care for the Child with CHD Undergoing Noncardiac Procedures
James Steven, MD
- 12:30 p.m. Perspectives on Early Extubation and Other Strategies to Improve Healthcare Value in Anesthetic Care for Congenital Heart Surgery
Susan Nicolson, MD
- 12:45 p.m. Q & A
Faculty Panel
- 1 p.m. Adjourn

Breakout Session IV

Care and Management of Coarctation of the Aorta Throughout Life

- 11 a.m. Anatomical Considerations
Paul Weinberg, MD
- 11:15 a.m. Conundrums in Prenatal Detection of Coarctation of the Aorta
John Simpson, MD
- 11:30 a.m. Imaging of the Aortic Arch Before and After Surgery for Coarctation
Craig Fleishman, MD
- 11:45 a.m. Surgical Considerations in the Repair of Coarctation of the Aorta
James O'Brien, MD
- Noon The Role of Catheter-based Care in Coarctation of the Aorta Throughout Life
Jonathan J. Rome, MD
- 12:15 p.m. Long-term Outcomes After Repair of Coarctation of the Aorta
Karen Stout, MD
- 12:30 p.m. Q & A
Faculty Panel
- 1 p.m. Adjourn



Breakout Session V

Heart Care Before Birth

- 11 a.m. **Variability in Prenatal Detection Rates of Congenital Heart Disease**
Michael Quartermain, MD
- 11:15 a.m. **Strategies to Improve Prenatal Screening for Congenital Heart Disease: Efficacy and Economic Impact**
Nelangi Pinto, MD
- 11:30 a.m. **The Placenta: The Ignored Organ in CHD?**
Jack Rychik, MD
- 11:45 a.m. **Efficacy of Fetal Cardiac Intervention: Are We Truly Changing Outcomes?**
Lindsay R. Freud, MD
- Noon **Cerebrovascular Blood Flow Patterns and Outcomes in Fetal Conditions**
Shabnam Peyvandi, MD
- 12:15 p.m. **Fetal Neuroplasticity and Neurocognitive Outcomes in CHD: Can We Change the Course of Nature?**
J. William Gaynor, MD
- 12:30 p.m. **Q & A**
Faculty Panel
- 1 p.m. **Adjourn**

Breakout Session VI

Let's FaceTime in Real Time: What's Happening in Perfusion and Cardiac Surgery

- 11 a.m. **ACT: Re-evaluating How We Measure**
Tami Rosenthal, MBA, CCP
- 11:15 a.m. **Acute Normovolemic Hemodilution: Daring or Dumb?**
Hamish Munro, MD
- 11:30 a.m. **Intraoperative Exchange Transfusion Utilizing the Bypass Circuit: Slow or Fast?**
Kevin Charette, CCP
- 11:45 a.m. **Myocardial Preservation: Is the Del Nido Solution the Wave of the Future for Infants and Neonates?**
Kamal Pourmoghadam, MD
- Noon **We are a team: Ask the Experts!**
(Perfusionist)—Bradley Kulat, CCP
- We are a team: Ask the Experts!**
(Surgeon)—James O'Brien, MD
- We are a team: Ask the Experts!**
(Intensivist)—Joseph Rossano, MD
- We are a team: Ask the Experts!**
(Intensivist)—Harun Fakioglu, MD
- We are a team: Ask the Experts!**
(Anesthesiologist)—Hamish Munro, MD
- 1 p.m. **Adjourn**



Saturday, Feb. 25
6:15 – 8 a.m.

HEART RUN 5K

CARING FOR KIDS' HEARTS



Exercise your body and your mind!

When: Saturday, Feb. 25, 2017

Start Time: 6:15 a.m.

Where: Disney's Yacht & Beach Club Resorts

Registration required and limited to the first 200 registrants

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

Part of the proceeds will be donated to charity to support CHD care and research.
Come out to run or to cheer on your colleagues!

Plenary Session VI

Named Featured Lectures and Awards

- 8 a.m. 15th Annual William J. Rashkind Memorial Lecture in Pediatric Cardiology
Barbara Deal, MD
- 8:25 a.m. 17th Annual C. Walton Lillehei Memorial Lecture in Cardiovascular Surgery
William M. DeCampli, MD, PhD
- 8:50 a.m. Ninth Annual Jack Downes Lecture in Cardiac Anesthesia and Critical Care
Vinay Nadkarni, MD
- 9:15 a.m. Sixth Annual Featured Lecture in the Cardiovascular Basic and Translational Sciences
Timothy Nelson, MD, PhD
- 9:40 a.m. 17th Annual Featured Lecture in Cardiovascular Nursing: T. Garrett Rauch Memorial Lecture
Karen Uzark, PhD
- 10:05 a.m. Presentation of the Outstanding Investigator and Nursing Scientist Awards
David Goldberg, MD
Kathryn M. Dodds, RN, CRNP-AC
- 10:15 – 11 a.m. Break/ Visit Exhibits/Poster Session III

11 a.m. – 1 p.m. Breakout Sessions (see Page 18 for sessions)

- 1 – 2 p.m. **PERFUSION LUNCHEON: Outside the Box**
Discussions around a boxed lunch

An Opportunity to Discuss Current Perfusion Opportunities and Obstacles in CPB, ECMO and Mechanical Support
Perfusion Faculty
- 1 – 2 p.m. **NURSING RECOGNITION LUNCHEON**
Outdoor Buffet



2–3 p.m. Moderated Panel of Experts

A Conversation With the Surgeons

Girish S. Shirali, MBBS (Discussion Leader)
Christian Kreuzer, MD
Christopher Caldarone, MD
William M. DeCampli, MD, PhD
Richard Ohye, MD
Viktor Hraska, MD
Thomas L. Spray, MD
James O'Brien, MD

Plenary Session VII

The Approach to Complex Congenital Heart Disease Around the World

- 3 p.m. 20 Years of Teaching in China: Advances and Contributions
Zhiyun Tian, MD
- 3:15 p.m. China: What Families Want for CHD Care and What We Can Currently Provide
Yiqun Ding, MD
- 3:30 p.m. France: The Perinatal Perspective and Thereafter
Damien Bonnet, MD, PhD
- 3:45 p.m. United Kingdom: How Oversight and the NHS Influence Care
John Simpson, MD
- 4 p.m. Congenital Heart Care in Latin America: Opportunities and Challenges
Christian Kreuzer, MD
- 4:15 p.m. Compare and Contrast: Australia, UK and USA – Strengths and Weaknesses of Each System
Daniel Penny, MD, PhD
- 4:30 p.m. Save a Child's Heart (SACH): CHD Care in the Third World – Are We Doing Enough?
Sion Hourii, MD
- 4:45 – 5 p.m. Break

5 – 6 p.m. "TEAMS OF RIVALS" AUDIENCE PARTICIPATION QUIZ BOWL

Matthew Gillespie, MD

- 6 p.m. Adjourn



Saturday, Feb. 25

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

Breakout Session I Cutting-edge Challenging Nursing Cases

- 11 a.m. Join the nursing faculty in a presentation and discussion of challenging cases that taught us important lessons
Nursing faculty

Breakout Session II Nutrition, Feeding and Growth in CHD

- 11 a.m. Feeding and Nutrition in Infants with CHD: Challenges and Opportunities
Chitra Ravishankar, MD
- 11:15 a.m. Nutrition and Growth in Congenital Heart Disease: Lessons Learned from NPCQIC
Jeffrey B. Anderson, MD, MPH, MBA
- 11:30 a.m. Longitudinal Growth in the Child with Hypoplastic Left Heart Syndrome
LuAnn Minich, MD
- 11:45 a.m. Origins of Growth Limitations in CHD: Is it More Than Just Nutrition?
David Goldberg, MD
- Noon Risks and Benefits of Feeding Before Neonatal Surgery: What Is the Data?
Sinai C. Zybiewski, MD
- 12:15 p.m. Implementing Nutritional Protocols: Is That the Answer?
Amy Jo Lisanti, RN, PhD
- 12:30 p.m. Q & A
Faculty Panel
- 1 p.m. Adjourn

Breakout Session III Pulmonary Vascular Disease and Pulmonary Hypertension: Current Insights

- 11 a.m. Pulmonary Hypertension: A Primer on What the Pediatric Cardiologist Needs to Know
Delphine Yung, MD
- 11:15 a.m. The Genetics of Pulmonary Hypertension
Wendy Chung, MD, PhD
- 11:30 a.m. Lung Development, Chronic Lung Disease of Prematurity and Pulmonary Hypertension
David Frank, MD, PhD
- 11:45 a.m. The Pathophysiology of Pulmonary Vascular Disease and Pulmonary Hypertension
Rachel Hopper, MD
- Noon Old and New Therapies for Pulmonary Hypertension in 2017
Erika Berman-Rosenzweig, MD
- 12:15 p.m. Lung Transplantation in the Young: Current Indications and Outcomes
Thomas L. Spray, MD
- 12:30 p.m. Q & A
Faculty Panel
- 1 p.m. Adjourn

Breakout Session IV Care and Management of Tetralogy of Fallot Throughout Life

- 11 a.m. Anatomical Considerations
Paul Weinberg, MD
- 11:15 a.m. Fetal Diagnosis and Preoperative Imaging
Shubika Srivastava, MBBS
- 11:30 a.m. Surgical Strategies for TOF: Initial Approach
Edward Hickey, MD
- 11:45 a.m. Form and Function: Imaging After Repair of TOF
Mark Fogel, MD
- Noon Surgical Care for TOF after Initial Approach: Dealing with Residual Challenges and Valve Implantation
Peter Pastuszko, MD
- 12:15 p.m. Catheter-based Care for TOF Throughout Life
Audrey Marshall, MD
- 12:30 p.m. Outcomes and Care for the Adult with TOF
Craig Broberg, MD
- 12:45 p.m. Q & A
Faculty Panel
- 1 p.m. Adjourn



Breakout Session V Topics in Adult Congenital Heart Care

- 11 a.m. **Mechanisms of Myocardial Dysfunction in Adult Congenital Heart Disease**
Craig Broberg, MD
- 11:15 a.m. **Endothelial Dysfunction and its Manifestations in the Adult with CHD**
Rachael Cordina, MD
- 11:30 a.m. **Considerations and Challenges in Heart Transplantation for the Adult with CHD**
Stephanie Fuller, MD
- 11:45 a.m. **Arrhythmia and Electrophysiological Considerations in the Adult with CHD**
John Friedman, MD
- Noon **Psychological Stress in the ACHD Patient**
Yuli Kim, MD
- 12:15 p.m. **Update on the AHA/ACC Guidelines for Adult Congenital Heart Management**
Karen Stout, MD
- 12:30 p.m. **Q & A**
Faculty Panel
- 1 p.m. **Adjourn**

Breakout Session VI Perfusion: What We Are Doing Today and Tomorrow

- 11 a.m. **Isolated Cerebral Perfusion: Is the Latest Trend Here to Stay?**
William M. DeCampli, MD, PhD
- 11:15 a.m. **How Clean Is the Water? ... And Does it Matter? Heater/Cooler Contamination Issues and Solutions for CPB**
Tami Rosenthal, MBA, CCP
- 11:30 a.m. **How Clean Is the Water? ... And Does it Matter? Heater/Cooler Contamination Issues and Solutions for ECMO**
Kevin Charette, CCP
- 11:45 a.m. **ECMO Anticoagulation: Has Adding More Tests Made a Difference?**
Jodi Chen, MD
- Noon **Pediatric Perfusion Practice and Its Influence on Adult Prime**
Bharat Datt, CCP, CPC, FPP
- 12:15 p.m. **Benefits and Unintended Consequences of Public Reporting of Surgical Outcomes**
J. William Gaynor, MD
- 12:30 p.m. **Q & A**
Faculty Panel
- 1 p.m. **Adjourn**



Sunday, Feb. 26

Plenary Session VIII

Casual Sunday Brunch: Roundtable Conversations on the Must-have Answers to Clinical Questions

- 8 a.m. **How Do I Best Evaluate and Manage Pediatric Syncope?**
Jeffrey B. Anderson, MD, MPH, MBA
- 8:20 a.m. **What Should I Do with My Patient with a Coronary Artery Anomaly?**
Julie Brothers, MD
- 8:40 a.m. **Is Enzyme Replacement Therapy Feasible for Metabolic Disease Induced Cardiomyopathy?**
Daniel Forsha, MD
- 9 a.m. **How Do I Best Manage the Sick Fetus with Ebstein's Anomaly?**
Lindsay R. Freud, MD
- 9:20 a.m. **What's the Data on Whether I Should Have This VSD Closed?**
Alan Friedman, MD
- 9:40 a.m. **Should I Stent the Ductus Arteriosus or Ask My Surgeon for a Shunt in the Newborn with Pulmonary Atresia?**
Andrew Glatz, MD

- 10 a.m. **Break**
- 10:15 a.m. **What Genetic Testing Should I Perform on My Patient with CHD?**
Elizabeth Goldmuntz, MD
- 10:35 a.m. **How Do I Best Diagnose Arrhythmogenic RV Dysplasia?**
Lars Grosse-Wortmann, MD
- 10:55 a.m. **When Should I Have This Subaortic Membrane Resected?**
Paul Stephens, MD
- 11:15 a.m. **In Whom Is Echo During Exercise Data Helpful for Clinical Decision Making?**
Jonathan Rhodes, MD
- 11:35 a.m. **How Do I Best Manage My Patient with Postoperative Chylothorax?**
Sinai C. Zyblewski, MD
- 11:55 a.m. **Final Remarks**
- Noon **Adjourn**

Save
the
Date

Cardiology
2018

21ST ANNUAL UPDATE ON
PEDIATRIC AND CONGENITAL
CARDIOVASCULAR DISEASE

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