

CARDIOLOGY 2020

*23rd Annual Update on Pediatric
and Congenital Cardiovascular Disease*

VISION 20/20

PEDIATRIC & CONGENITAL HEART DISEASE

**LESSONS FROM THE PAST,
A BOLD LOOK TOWARD
THE FUTURE**

Learn more at
chop.cloud-cme.com

FEB. 12–16, 2020

PRESIDENTS' DAY WEEKEND

Disney's Yacht & Beach Club Resorts
Lake Buena Vista, Fla.



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WELCOME



The practice of pediatric and congenital cardiovascular medicine spans a wide spectrum of care across a wide variety of disciplines. Optimal care not only includes knowledge of proper treatment strategies for the heart disease itself, but also better understandings of the numerous consequences and associated challenges that face the patient and family

throughout the lifespan. Our field is still so young and expanding — so many lessons learned, yet so much more to learn, in order to improve the lives of our patients.

With this approach in mind, we present our multidisciplinary comprehensive conference, the **23rd Annual Update on Pediatric and**



Congenital Cardiovascular Disease. Our theme this year is “**Vision 20/20: Lessons from the Past, a Bold Look Toward the Future.**” The esteemed course faculty will present multiple talks in plenary sessions, subspecialty breakout sessions, moderated panels of experts, as well as lively discussion groups covering all areas and topics related to the comprehensive

care of the unborn, neonate, child and young adult with cardiovascular disease. Through exchange of information, professional networking and effective learning, the goals of this educational conference are to give healthcare providers the tools necessary to create a normal quality and duration of life for individuals with pediatric and congenital cardiovascular disease.

GENERAL INFORMATION

Topics will include:

- The future of pediatric and congenital cardiovascular disease
- Past lessons that inform clinical care today
- Outcomes for patients with Fontan circulation
- What's new in cardiac intensive care?
- Practical solutions to common heart problems
- A rapid-fire Q & A session with world experts on hot topics in the field
- Child health advocacy, prenatal cardiac care, condition-specific concerns and much more!

Why you should attend Cardiology 2020:

- Exposure to the latest updates in the field
- Opportunities for networking and socializing
- Special sessions for nurses, perfusion specialists and healthcare administrators
- Preconference sessions on: the right ventricle, quality of life in CHD care, and a CHD primer for nurses and frontline staff
- Time to enjoy Disney's parks and all that central Florida has to offer
- 5K Heart Fun Run, Yoga for Your Heart and other fun activities
- More than 30 credits for physicians, nurses and perfusion specialists

CALL FOR ABSTRACTS

Abstract Submission Deadline:

Monday, Nov. 18, 2019 (11:59 pm EST)

Notification of Acceptance:

Monday, Dec. 9, 2019

Oral Abstract Presentations:

Thursday, Feb. 13, 2020

Poster Abstract Presentations:

Thursday, Feb. 13 — Saturday, Feb. 15, 2020

Course Objectives 2020

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 emerging body of information as well as gaps in knowledge related to patients with a Fontan circulation
- Appreciate the role of thrombosis in congenital heart disease and its management
- Learn about the value of child health advocacy in the United States today and acquire the skills to actively participate in improving child health
- Review the risks and benefits of physical activity in congenital heart disease
- Discuss the latest concepts in improving outcomes for patients with tetralogy of Fallot
- Describe the latest strategies and surgical techniques for valve surgery in congenital heart disease
- Learn the important skills of communication and how to undertake difficult conversations in the clinical and professional settings
- Describe management and outcomes for pediatric heart failure and cardiomyopathy
- Explain the latest updates in fetal and perinatal care for the patient with cardiovascular disease
- Find answers to the many common questions related to the clinical care of patients with congenital heart disease
- Understand the concepts of education and learning in the field of pediatric and congenital cardiovascular disease
- Describe the most recent developments in cardiovascular intensive care
- 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

Registration

The conference will be held Wednesday, Feb. 12 through Sunday, Feb. 16, 2020, at Disney's Yacht & Beach Club Resorts in Lake Buena Vista, Fla. Registration is Wednesday, Feb. 12, from 6:30 a.m. to 6 p.m., and Thursday, Feb. 13, from 6:30 a.m. to 6 p.m.

Course Fees

The registration fee for the five-day conference is \$995 for physicians and \$595 for other healthcare professionals and physicians-in-training. The registration fee includes tuition, online presentations, daily continental breakfast, lunch and conference opening reception.

Full Conference: Wednesday, Feb. 12, 4 p.m. to Sunday, Feb. 16, 12:30 p.m.

Physicians \$995
Nurses, Medical Students, Residents, Fellows and
Other Healthcare Professionals \$595

Optional Preconference Seminars: Wed., Feb. 12, 7:30 a.m.

You must be registered for the full conference to register for a preconference.

No. 1: The Product of Our Work: Measures of Systems Quality and Individual Quality of Life in Pediatric and Congenital Cardiovascular Disease \$150
No. 2: Focus on the Right Ventricle..... \$150
No. 3: Congenital Heart Disease and Postoperative Management: A Comprehensive Review for Nursing and Front-line Providers \$150

Register online: chop.cloud-cme.com

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 37.25 *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. 12, 2020

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

No. 1: The Product of Our Work: Measures of Systems Quality and Individual Quality of Life in Pediatric and Congenital Cardiovascular Disease = 6.5
No. 2: Focus on the Right Ventricle = 6.5
No. 3: Congenital Heart Disease and Postoperative Management: A Comprehensive Review for Nursing and Front-line Providers = 7.0

Main Conference: Wednesday, Feb. 12, 4 p.m. to Sunday, Feb. 16, 2020, 12:30 p.m.

Total *AMA PRA Category 1 credits*[™] = 30.25

American Board of Pediatric Maintenance of Certification (MOC) Lifelong Learning Self-Assessment (Part 2)

Successful Completion of this CME activity, which includes participation in the activity, with individual assessments of the participant and feedback to the participant, enables the participant to earn 21 MOC points in the American Board of Pediatrics (ABP) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit.

Nursing Accreditation Statement

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

Perfusion Accreditation Statement

An application for CEU Category 1 hours will be submitted.

Services for People with Disabilities

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.

Cancellation and Refund Policy

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, Children's Hospital of Philadelphia will refund registration fees but is not responsible for any related costs or charges assessed by airlines and travel agencies. In order to process refunds for course withdrawals, cancellations must be received in writing by Monday, Jan. 27, 2020. Refunds will be issued for the amount of registration less a \$100 service charge.

Hotel Information

A block of rooms has been reserved at Disney's Yacht & Beach Club Resorts. The group rate is \$299 single or double occupancy plus a 12.5% room tax. This rate includes Internet access in guest rooms and the Conference Center. Participants are required to make their own hotel reservations by calling the hotel directly at 407-939-4686 or online at bit.ly/CHOPCardiology2020.

For the reduced conference rate, mention the name of the conference when making your reservation. The conference rate covers Feb. 8 – Feb. 19, 2020, and will be available only until Monday, Jan. 13, 2020. Reservations made after Jan. 13 will be accepted based on space and rate availability.

PRECONFERENCE PROGRAM



♡ WEDNESDAY, FEB. 12

Optional Preconference No. 1

The Product of Our Work: Measures of Systems Quality and Individual Quality of Life in Pediatric and Congenital Cardiovascular Disease

Introduction and Session Moderators: Jeffrey Anderson, Bradley Marino and Sara Pasquali

- 8 a.m. How Do We Grade Quality When it Comes to Congenital Heart Surgery?
Sara Pasquali
- 8:20 a.m. Public Reporting of Outcomes
J. William Gaynor
- 8:40 a.m. Influence of Systems Quality Improvement Strategies on Improving Quality of Life: Cincinnati Experience
Jeffrey Anderson
- 9 a.m. Influence of Systems Quality Improvement Strategies on Improving Quality of Life: Philadelphia Experience
Shobha Natarajan
- 9:20 a.m. Experiences and Lessons Learned in National Efforts to Improve Quality of Life for Children
Carole Lannon
- 9:40 a.m. Faculty Panel Q and A
- 10 A.M. BREAK
- 10:15 a.m. What Is Quality of Life and How Do We Measure It? A Primer
Bradley Marino
- 10:45 a.m. Executive Function and Psychosocial Quality of Life in CHD
Mary Donofrio
- 11:05 a.m. Mechanisms of Impaired Neurocognitive Outcomes in CHD: One Neurologist's Perspective
Daniel Licht
- 11:30 a.m. Screening for Neuro-developmental Deficits in CHD: What, When and How Often?
Erica Sood
- 11:50 a.m. Faculty Panel Q and A
- NOON GRAB AND GO LUNCH

- 12:15 p.m. Programmatic Effort to Reduce Stress and Anxiety Following Prenatal Diagnosis of a Birth Defect
Joanna Cole
- 12:45 p.m. Experiences and Lessons Learned in Providing Psychological Services for In-patient Pediatric Cardiac Care
Abigail Demianczyk
- 1:05 p.m. The Mental Health and Behavioral Challenges Unique to the Adolescent and Young Adult with CHD
Adrienne Kovacs
- 1:25 p.m. The Relationship Between Exercise and Quality of Life in CHD: What We Know and What We Need to Learn
Elizabeth Goldmuntz
- 1:55 p.m. Quality of Life after Heart Transplantation
Matthew O'Connor
- 2:15 p.m. Faculty Panel Q and A
- 3 P.M. ADJOURN

Optional Preconference No. 2

Focus on the Right Ventricle

Focus on the Right Ventricle: The Basics

- 7:45 a.m. Introduction and Opening Remarks
Mark Friedberg and Laura Mercer-Rosa
- 8 a.m. Developmental Origins: How Does the Right Ventricle Form?
Karl Degenhardt
- 8:20 a.m. The RV Before Birth: Form, Function and Failure
Jill Savla
- 8:50 a.m. Mechanisms of Right Ventricular Adaptation and Maladaptation
Mark Friedberg
- 9:20 a.m. Molecular Aspects of Right Ventricular Function and Dysfunction
Sushma Reddy
- 9:50 a.m. Faculty Panel Q and A
- 10 A.M. BREAK
- Focus on the Right Ventricle: Clinical Imaging
- 10:15 a.m. How Should We Use Echocardiography to Assess RV Function?
Laura Mercer-Rosa



- 10:45 a.m. CMR Assessment of RV Function and the Myocardium
Mark Fogel
- 11:15 a.m. New Imaging Modalities of the RV: 3D Echo and 3D Models – Toronto Approach
Andreea Dragulescu
- 11:45 a.m. Faculty Panel Q and A
- NOON GRAB & GO LUNCH
- Focus on the Right Ventricle: The RV in Disease States**
- 12:15 p.m. The RV in Tetralogy of Fallot: A Journey of Transitions from Fetus Through Repaired Adult
Shiraz Maskatia
- 12:45 p.m. The Systemic RV in Hypoplastic Left Heart Syndrome
Luc Mertens
- 1:05 p.m. The Systemic RV in Corrected Transposition of the Great Arteries
Daniel Forsha
- 1:25 p.m. The RV in Pulmonary Hypertension
Pei-Ni Jone
- 1:45 p.m. Moderated Panel Discussion on Topics Related to the RV: Cases, Controversies and Conundrums
Mark Friedberg and Laura Mercer-Rosa
- 2:15 p.m. **Keynote Lecture**
The Curious and Odd Relationship between the Liver and Pulmonary Circulation: A Mystery of Human Biology
Steven Kawut
- 2:45 P.M. ADJOURN

Optional Preconference No. 3

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

- 7:30 a.m. Terminology of “Normal” Cardiac Anatomy
Paul Weinberg
- 7:45 a.m. Screening, Diagnosis and Preoperative Assessments
Kathryn Dodds
- 8 a.m. Open Heart Surgery: What Is CPB, X Clamp, Circulatory Arrest?
Jonathan Chen
- 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, Obstruction, Regurgitation, Thrombus and Holes
David Goldberg
- 9:15 a.m. What the Chest X-ray Can and Cannot Show You
Geoffrey Bird
- 9:30 a.m. How to Decipher Cardiac Catheterization Data: The Basics
Michael O’Byrne
- 9:45 a.m. Postoperative Arrhythmias: SVT, JET, Heart Block, VT
Maully Shah

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- 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 – *Paul Weinberg*
Surgery – *William DeCampli*
Postoperative Care and Outcomes – *Nicole Lucchesi*
- 11 a.m. Complete Common Atrioventricular Canal Defect:
Postoperative Care and Outcomes
Anatomy/Morphology – *Paul Weinberg*
Surgery – *James O'Brien*
Postoperative Care and Outcomes – *Lisa Laddish*
- 11:20 a.m. Tetralogy of Fallot
Anatomy/Morphology – *Paul Weinberg*
Surgery – *James O'Brien*
Postoperative Care and Outcomes – *Lisa Laddish*
- 11:40 a.m. Truncus Arteriosus
Anatomy/Morphology – *Paul Weinberg*
Surgery – *William DeCampli*
Postoperative Care and Outcomes – *Kathryn Dodds*
- NOON LUNCH
- 12:30 p.m. Coarctation
Anatomy/Morphology – *Paul Weinberg*
Surgery – *William DeCampli*
Postoperative Care and Outcomes – *Lisa Laddish*
- 12:50 p.m. D-TGA: Arterial Switch Operation: Surgery
Anatomy/Morphology – *Paul Weinberg*
Surgery – *Jonathan Chen*
Postoperative Care and Outcomes – *Kathryn Dodds*
- 1:10 p.m. Total Anomalous Pulmonary Venous Return
Anatomy/Morphology – *Paul Weinberg*
Surgery – *James O'Brien*
Postoperative Care and Outcomes – *Ashley Marshall*
- 1:30 p.m. Single Ventricle: Stage 1, Bidirectional Glenn,
Fontan Surgeries
Anatomy/Morphology – *Paul Weinberg*
Surgery – *Jonathan Chen*
Postoperative Care and Outcomes – *Kathryn Dodds*
- 2:30 p.m. Behavioral and Developmental Concerns in CHD
Daniel Licht
- 2:45 p.m. Growing Up with Congenital Heart Disease
Yuli Kim
- 3 p.m. Q and A
- 3:30 P.M. ADJOURN

♥ WEDNESDAY, FEB. 12

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

Vision 20/20: A Clear-eyed View of the Future for Pediatric and Congenital Cardiovascular Disease

4 p.m. Opening Remarks – Jack Rychik

4:05 p.m. Challenges and Opportunities in Pediatric Healthcare for the Next Decade
Colleen Kraft

4:20 p.m. Harnessing Collaborative Data and Analytics to Improve Outcomes in Congenital Heart Disease
Sara Pasquali

4:35 p.m. Cell-based Therapies in Congenital Heart Disease – *Timothy Nelson*

4:50 p.m. The “Forgotten” Circulation: The Lymphatic System
Yoav Dori

5:05 p.m. Innovation in Catheter-based Therapies
Matthew Gillespie

5:20 p.m. Innovation in Congenital Heart Surgery
William DeCampli

5:35 p.m. Nursing Challenges and Opportunities
Denise Donaghue

5:55 p.m. Reducing Adult Cardiovascular Risk in Childhood – *Sarah de Ferranti*

6:10 p.m. What the Patient and Family Community is Looking For: Family Perspective
Diane Pickles

6:20 p.m. What the Patient and Family Community is Looking For: Patient Perspective
Taylor Hartzel

6:30 p.m. Adjourn

6:30-8 p.m. Opening Reception on the Beach

Sponsored by



♥ THURSDAY, FEB. 13

7 – 8 a.m. **Morning Coffee Conclave: Let's Have Coffee and Talk ...**

Session I: Challenging Cases and Conundrums
Paul Kantor (Lead); Ryan Moore; Therese Giglia

Session II: How to Interpret the Electrocardiogram I, The Basics — *Charles Berul; Mitchell Cohen; Christopher Janson*

Plenary Session II: 8 – 10 a.m.

Improving Clarity: The Future Is Now for the Fontan Circulation

8 a.m. How Do We Get to the Ultimate Goal of Seeing a Healthy “64-year-old” with a Fontan Circulation?
Yves d’Udekem

8:15 a.m. Is Exercise Training the Solution?
Rachael Cordina

8:30 a.m. Do Structural and Functional Aspects of the Single Ventricle Heart Predict Outcomes?
Rahul Rathod

8:45 a.m. What “FUELS” the Fontan Circulation? Determinants of Blood Flow in the Single Ventricle Heart
David Goldberg

9 a.m. Optimal Flow Dynamics and Variations in Cavopulmonary Connection
Ajit Yoganathan

9:15 a.m. Fontan-associated Liver Disease: What Is It? Why Does It Occur? What Can We Do About It?
Frank Cetta

9:30 a.m. Catheter-based Rerouting for Lymphatic Insufficiency
Jonathan J. Rome

9:45 a.m. The National Fontan Outcomes Network Registry Is (Almost) Here!
Gail Wright

10 A.M. ADJOURN



Break/Visit the Exhibits: 10 – 11 a.m.
Poster Session No. 1

Thursday, Feb. 13: Simultaneous Breakout Sessions
11 a.m. – 1 p.m.

Thrombosis and Anticoagulation in Pediatric and Congenital Cardiovascular Disease

11 a.m. Implementation of a Clinical Program to Diagnose, Treat and Prevent Clots in Children with Heart Disease
Therese Giglia

11:15 a.m. Why Do Children with Heart Disease Get so Many Clots? Mechanisms of Thrombosis in CHD — *Jarrett Linder*

11:30 a.m. My Imaging Test Suggests a Thrombus: Is It Real? An Algorithm for Determining Truth — *Michael Quartermain*

11:45 a.m. Anticoagulation for Prosthetic Valves — *James Tweddell*

Noon Anticoagulation for the Patient on ECMO or with a VAD
David Cooper

12:15 p.m. Outpatient Anticoagulation and Home Monitoring
Rachel Keashen

12:30 p.m. New Options for Childhood Anticoagulation
Andrew Glatz

12:45 p.m. Faculty Panel Q and A

1 P.M. ADJOURN

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Perinatal Cardiac Care

- 11 a.m. Goals, Priorities and Gaps in Knowledge in Fetal Cardiovascular Disease: Perspective of the Fetal Heart Society — *Mary Donofrio*
- 11:15 a.m. Design, Development and Benefits of a Birth Defects Registry — *J. William Gaynor*
- 11:30 a.m. Maternal-fetal Environmental Influences on Outcomes in Congenital Heart Disease
Jill Savla
- 11:45 a.m. Characterization of Lung Pathology in Fetal Cardiovascular Disease
Karl Degenhardt
- Noon The Value of Delayed Cord Clamping in CHD
Carl Backes
- 12:15 p.m. Preoperative Variability in Management Practice Prior to Arterial Switch in the Newborn with Transposition of the Great Arteries
Michael O'Bryne
- 12:30 p.m. What to Do When Nothing Can Be Done? Palliative Care in Complex Fetal Cardiovascular Disease — *Hayley Hancock*
- 12:45 p.m. The Psychological Burden of Prenatal Diagnosis
Joanna Cole
- 1 P.M. ADJOURN

Child Health Advocacy

- 11 a.m. Advocating for Children and Youth: Current Priorities and Topics: An Introduction
Paul Viviano
- 11:10 a.m. Advocating from the Heart: The Role of Patients and Families — *Jennifer and Max Page*
- 11:25 a.m. Can the Federal Government Help Us Graduate Patients? Policy Options to Address the Pediatric to Adult Care Transition Gap
Roberta Williams
- 11:40 a.m. A Model for Advocacy: Preventing Sudden Cardiac Death in the Young — *Stuart Berger*
- 11:55 a.m. White Coat Advocacy: Lessons for Doctors and Nurses as Advocates — *Colleen Kraft*
- 12:15 p.m. Roundtable Discussion with Advocacy Thought Leaders: Lessons from the Field
Lara Khouri, Paul Viviano and faculty
- 1 P.M. ADJOURN

Nursing Hot Topics: New and Old Issues

- 11 a.m. Pulmonary Hypertension Medications: What Still Works and What Is New? — *Rachel Tkaczyk*
- 11:15 a.m. PDA Neonatal Device Closure: Now Navigating the NICU Waters — *Karen Iacono*
- 11:30 a.m. Parental mHealth Adherence for Home Monitoring: Factors, Rates, Possible Interventions — *Lori Erickson*



- 11:45 a.m. The Lymphatic System: Rediscovering What Has Always Been There – *Erin Pinto*
- Noon APP Independent Rounding Tools
Andrea Sawyer-Gray
- 12:15 p.m. Melding CNS and Nurse Scientist Roles
Amy Jo Lisanti
- 12:30 p.m. Independent NP Cardiology Clinics: A 10-year Review – *Juli-anne Evangelista*
- 12:45 p.m. “Shock Advised”: YOU and Project ADAM Heart Safe Schools – *Gwen Fosse*
- 1 P.M. ADJOURN

Conquering Challenges in Pediatric Perfusion

- 11 a.m. Integrating the Perfusion Record into the EMR
Alex Chappell
- 11:15 a.m. A Novel Technique to Fix a Novel Problem: Case Report on a Patient with Complex Congenital Heart Disease – *Talya Frey*
- 11:30 a.m. More than Gas Exchange: Teamwork Between Perfusion and Anesthesia During Cardiac Surgery
Andreas Loepke
- 11:45 a.m. Pharmacological Management for CPB: Optimal Timing and Application – *Gary Plancher*
- Noon Is it Time to Re-evaluate the Relevance of Modified Ultra-filtration? – *Tami Rosenthal*
- 12:15 p.m. Unexpected Challenges in Perfusion: Case Presentations – *James Tweddell*
- 12:30 p.m. Faculty Panel Discussion
- 1 P.M. ADJOURN

1 – 2 p.m. Lunch on the Beach

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Children's Hospital of Philadelphia
Cardiac Center



Texas Children's Hospital

Moderated Panel of Experts 2 – 3:15 P.M.

Regionalized Care for Congenital Heart Disease: Is it Time?

Panel Discussion on this timely topic to include center volumes influencing outcomes, public ratings, risk stratification and outcomes transparency. Carl Backer (introduction to the topic), Joseph Rossano (Leader), Mark Lewin, David Nykanen, Sara Pasquali, Daniel Penny, Robert Shaddy, James Tweddell, Vincent Zales

Oral Abstracts 3:15 – 4:30 p.m.

Plenary Session III: 4:30 – 6:30 p.m.

Intense Hallway Discussions: Here Is What I Think! Narrated by Your Hallway Monitor ... Jack Rychik

- 4:30 p.m. How Best to Establish Pulmonary Blood Flow: A Surgical Shunt or a Ductal Stent?
Geoffrey Bird (Leader); Andrew Glatz; Christopher Caldarone
- 4:45 p.m. This Infant Is Premature and Has Complex Heart Disease: Operate Now or Wait on Prostaglandin?
Chitra Ravishankar (Leader); Peter Pastuszko; James O'Brien
- 5 p.m. This Patient with HLHS Has a Leaky Tricuspid Valve: Should We Try and Fix, Replace, or Transplant?
David Goldberg (Leader); Jonathan Chen; James Tweddell
- 5:15 p.m. This Patient Has Trisomy 18 and Congenital Heart Disease: Should We Operate?
Susan Schachtner (Leader); Meryl Cohen; David Cooper
- 5:30 p.m. This Patient Has Corrected TGA: How Should I Best Counsel the Family and Manage Her to Achieve an Optimal Long-term Outcome?
Daniel Penny (Leader); Viktor Hraska; Carol Warnes
- 5:45 p.m. This Patient Has a “Borderline” Small Right Ventricle: What Strategy Should I Recommend?
Luc Mertens (Leader); Craig Fleishman; Shiraz Maskatia
- 6 p.m. This Patient Has Pulmonary Atresia, VSD and Aorto-pulmonary Collaterals: How Best Should I Manage This?
Jonathan J. Rome (Leader); Yves d'Udekem; David Barron
- 6:15 p.m. This 30-Year-Old with Congenital Heart Disease Needs Surgery: Should We Do It at the Adult or Children's Hospital?
Stephanie Fuller (Leader); Anitha John; Yuli Kim
- 6:30 P.M. ADJOURN

7 – 8 a.m. **Morning Coffee Conclave: Let's Have Coffee and Talk ...**

Session I: Nursing Conclave: Let's Talk About Cardiovascular Drugs — *Grace George; Stacy Reynolds*

Session II: Caffeinate and Converse: Current Trends in Pediatric Perfusion, Perfusion Roundtable Breakfast *Perfusion Faculty*

Session III: Challenging Cases and Conundrums *Maryam Naim (Leader); Kiona Allen; Pei-Ni Jone; Matthew Files*

Session IV: How to Interpret the Electrocardiogram II, Advanced — *Charles Berul; Mitchell Cohen; Maully Shah*

Plenary Session IV: 8 – 10 a.m.

The Hard Talk: Seeing How Best to Speak to ...

- 8 a.m. The Young Couple Following Prenatal Diagnosis of CHD
Jack Rychik
- 8:15 a.m. The “Difficult” Family in the Intensive Care Unit — *Kiona Allen*
- 8:30 a.m. The Patient and Family After an Error in Care — *Alan Friedman*
- 8:45 a.m. The Family After Death in the Cardiac ICU
David Cooper
- 9 a.m. The Adolescent/Family that Refuses to Transition to ACHD Care
Anitha John
- 9:15 a.m. The Young Adult with Complex CHD (about Risky Behaviors, Medical Directives and Other Challenging Topics)
Adrienne Kovacs
- 9:30 a.m. The Disruptive Colleague or Other Uncomfortable Situations: The “Berger Strategy” — *Stuart Berger*
- 9:40 a.m. The Disruptive Colleague or Other Uncomfortable Situations: The “Penny Method” — *Daniel Penny*
- 9:50 a.m. The Disruptive Colleague or Other Uncomfortable Situations: The “Rossano Technique” — *Joseph Rossano*
- 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.

Healthcare Administration in Pediatric and Congenital Cardiovascular Disease

- 11 a.m. Challenges and Strategies in Creating a Collaborative Culture in an Academic Congenital Heart Center
Mark Schwartz
- 11:15 a.m. Developing Pediatric Healthcare Leaders: Physician Leaders — *Joseph St. Geme*
- 11:30 a.m. Developing Pediatric Healthcare Leaders: Hospital Administration Leader — *Doug Hock*
- 11:45 a.m. Principles and Practice for Strategic Planning in a Children's Hospital — *Lara Khouri*
- Noon “Lean” Healthcare: What Does It Mean? How Can It Be Applied in Congenital Heart Care?
Howard Heching
- 12:15 p.m. The Public-private Hybrid Model of Treating Congenital Heart Disease in Mexico City
Alexis Palacios-Macedo
- 12:30 p.m. WIFM — What's in It for Me: Engaging Faculty in Clinical Operational Improvement Efforts
Lauren Tanzer
- 12:45 p.m. Developing a Fair and Reasonable Incentive Plan for My Faculty of Cardiologists
Girish Shirali
- 1 P.M. ADJOURN



The Patient with Repaired Tetralogy of Fallot: How Do We Get to Normal?

- 11 a.m. Genetic Influences on Outcomes after TOF Repair
Elizabeth Goldmuntz
- 11:15 a.m. Biology of the RV in TOF: Current Understandings
Sushma Reddy
- 11:30 a.m. Arrhythmia: Risk Factors and Management
Mitchell Cohen
- 11:45 a.m. Methods and Techniques for Cardiac Characterization
Laura Mercer-Rosa
- Noon When Is Pulmonary Competence Necessary?
Mark Fogel
- 12:15 p.m. Pearls and Pitfalls in Catheter-based Pulmonary
Valve Implantation — *Julie Vincent*
- 12:30 p.m. Pregnancy in the Young Adult with TOF
Anitha John
- 12:45 p.m. Standards for Surveillance in the Adult — *Yuli Kim*
- 1 P.M. ADJOURN

Valve Surgery in Congenital Heart Disease.

- 11 a.m. Bioengineering Contributions to Understanding
Congenital Valvular Disease — *Ajit Yoganathan*
- 11:15 a.m. The Starnes Procedure — *Ram Subramanyan*
- 11:30 a.m. Solutions and Techniques for Creating Mitral Valve
Competence — *Stephanie Fuller*
- 11:45 a.m. Results, Long-term Outcomes of the Cone Procedure
Frank Cetta
- Noon Neonatal Aortic Stenosis — *Viktor Hraska*
- 12:15 p.m. The Ozaki Procedure — *Jonathan Chen*
- 12:30 p.m. The Ross Procedure — *David Barron*
- 12:45 p.m. Progress Toward Tissue-engineered Valves
John Mayer
- 1 P.M. ADJOURN

The Top 8 Nursing Abstracts: Oral Nursing Abstracts Presented and Discussed 11 a.m. – 1 p.m.

Been There Done That: Wisdom and Tools for Difficult Perfusion Scenarios in the Cardiac Operating Room

- 11 a.m. Multiple Mechanical Support Device Options:
Is There a Best Choice? — *Jonathan Chen*
- 11:15 a.m. Quality Improvement Perspective 1: How To Apply
Quality Improvement in the Cardiac OR Environment —
The Kansas City Experience — *Kelly Fehlhafer*
- 11:30 a.m. Quality Improvement Perspective 2: Quality
Improvement from the Cardiac OR to the ICU:
Coordinating Efforts Improves Results —
The Orlando Experience — *Harun Fakioglu*
- 11:45 a.m. Surgical Complications and Solutions for CPB
Peter Pastuszko
- Noon Medication Administration on CPB: Optimizing
the When and How — *Gary Plancher*
- 12:15 p.m. Conquering the Challenge of MCS for the
Failing Fontan — *Karl Woitas*
- 12:30 p.m. Blood Conservation Strategies: How Aggressive
Should We Get? — *Tami Rosenthal*
- 12:45 p.m. Current Practice for Pediatric Heart Transplants
and the Effects on Perioperative Care
Joseph Rossano
- 1 P.M. ADJOURN

FREE AFTERNOON

*Lunch on your own, free to visit
the parks or relax at resort*



**SATURDAY
MORNING**
Fitness Fest

HEART RUN 5K

CARING FOR KIDS' HEARTS



EXERCISE YOUR BODY AND YOUR MIND!

WHEN: Saturday, Feb. 15, 2020

START TIME: 6:15 a.m.

WHERE: Disney's Boardwalk (*Registration required and limited to the first 200 registrants*)

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



YOGA FOR YOUR HEART (AND MIND) Saturday 6:15 – 7:30 a.m.

Where: Disney's Yacht and Beach Resort

Fee: \$10

Plenary Session V: 8 – 10 a.m.

Awards and Featured Lectures

- 8 a.m. 12th Annual Jack Downes Lecture in Cardiac Anesthesia and Critical Care
Andreas Loepke
- 8:20 a.m. 8th Annual Featured Lecture in the Cardiovascular Basic and Translational Sciences
Seema Mital
- 8:40 a.m. 19th Annual Featured Lecture in Cardiovascular Nursing: T. Garrett Rauch Memorial Lecture
Britt Fredrikson
- 9 a.m. 17th Annual William J. Rashkind Memorial Lecture in Pediatric Cardiology
Carol Warnes
- 9:20 a.m. 19th Annual C. Walton Lillehei Memorial Lecture in Cardiovascular Surgery
John Mayer
- 9:40 a.m. Presentation of the Outstanding Investigator and Nursing Scientist Awards
David Goldberg and Kathryn Dodds
- 10 A.M. ADJOURN

Break/Visit the Exhibits 10 – 11 a.m.

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

Cardiomyopathy and Heart Failure

- 11 a.m. Heart Failure in Children: Priorities and Focus of ACTION – *Angela Lorts*
- 11:15 a.m. The Genetics of Cardiomyopathy – *Jeffrey Towbin*
- 11:30 a.m. Characterization of Disease Severity and Imaging in Cardiomyopathy – *Matthew O'Connor*
- 11:45 a.m. Myocardial Fibrosis in CHD: An Ignored Factor? *Rahul Rathod*
- Noon Arrhythmia in Cardiomyopathy: Risk Factors and Management – *Maully Shah*
- 12:15 p.m. Mechanical Inefficiency in Cardiomyopathy *Daniel Forsha*
- 12:30 p.m. Drugs: Which Ones Work? What Is the Evidence Base in Children? – *Paul Kantor*
- 12:45 p.m. Mechanical Support: For Whom and How? *Joseph Rossano*
- 1 P.M. ADJOURN

Teaching and Learning: Education in Pediatric and Congenital Cardiovascular Disease

- 11 a.m. The Principles and Science of Medical Education
Meryl Cohen
- 11:15 a.m. Medical Education for the Current Generation of Learners – *Lindsay Rogers*
- 11:30 a.m. Basic Training: Fellowship “Boot Camp”
Catherine Krawczeski
- 11:45 a.m. Simulation Training for Education in Nursing Skills
Sherie Kubis
- Noon Creating Effective Tools for Learning – *Ryan Moore*
- 12:15 p.m. Training Techniques for Developing Imaging Skills
Carolyn Altman
- 12:30 p.m. Creation of Learning Networks and How They Advance Knowledge and Clinical Practice
Carole Lannon
- 12:45 p.m. Physician Education: The Podcast Experience
Robert Pass
- 1 P.M. ADJOURN

Conditions of Interest in the Chest

- 11 a.m. Anatomical Spectrum of Vascular Rings and Slings
Paul Weinberg
- 11:15 a.m. Imaging, Pathophysiology, Clinical Spectrum of Vascular Rings – *Carolyn Altman*
- 11:30 a.m. Pathophysiology and Characterization of the PDA
Craig Fleishman
- 11:45 a.m. Surgical Management of Vascular Anomalies (Including the Preemie PDA) – *Stephanie Fuller*
- Noon Aggressive Closure or Masterful Non-intervention: What’s Best for the Premature Infant with a Patent Ductus Arteriosus? – *Carl Backes*
- 12:15 p.m. Experience in Device Closure of PDA in Prematurity
David Nykanen
- 12:30 p.m. Design and Implementation of a QI Project for the Management of PDA – *Elizabeth Todd*
- 12:45 p.m. Update on Tracheal Surgery in Children
Carl Backer
- 1 P.M. ADJOURN

Nursing Dilemmas and Conundrums: Challenging Cases

- 11 a.m.–1 p.m. Join the nursing faculty in a discussion of cases that highlight important lessons learned
Gwen Fosse, Kathryn Dodds, Lori Erickson, Erin Pinto, Julie-anne Evangelista, Andrea Sawyer-Gray, Lorraine Woodward, Rachel Tkaczyk

Exploring ECMO: Current and Future Best Practice

- 11 a.m. Top Five Factors that Affect Care of the Cardiac ECMO Patient – *Geoffrey Bird*
- 11:15 a.m. ECMO Circuit Prime Variability and Best Practice
Alex Chappell
- 11:30 a.m. Road to the Skies: Building an ECMO Transport Program from Scratch – *Talya Frey*
- 11:45 a.m. ECMO Turndown Standardization: Determining Consistent Practice – *Michael Goldsmith*
- Noon Consider the Anatomy: ECMO for Complex Congenital Heart Disease – *James O'Brien*
- 12:15 p.m. Does ECMO Circuit Selection Affect Patient Management and Safety? – *Karl Woitas*
- 12:30 p.m. Panel Q and A – *Perfusion Faculty*
- 1 P.M. ADJOURN

1 – 2 p.m. Lunch

Lunch Options

1. Nursing Luncheon

By Invitation

2. All Others, GRAB YOUR LUNCH

and you are invited to join ...

1:15 – 1:45 p.m. Informal Roundtable Discussion on a Topic of Interest

Lunchtime Roundtable I:

Exercise and Lifestyle Habits in Congenital Heart Disease
Julie Brothers; Rachael Cordina

Lunchtime Roundtable II:

Implementing Quality Improvement within the Various Venues of Pediatric Cardiovascular Care
Jeffrey Anderson; Carole Lannon; Shobha Natarajan; Susan Schachtner

Lunchtime Roundtable III:

Focus on the Echolab: How Best to Optimize Operational Processes, Education and Research
Luc Mertens; Michael Quartermain

Plenary Session VI: 2 – 4 p.m.

Vision 20/20: Insight on Cardiac Intensive Care

- 2 p.m. Is More Monitoring Necessary? – *Geoffrey Bird*
- 2:15 p.m. CICU Data Analytics: How and What Can We Learn to Improve Care? – *Michael Goldsmith*
- 2:30 p.m. Resuscitation and Rescue: State-of-the-Art
Maryam Naim
- 2:45 p.m. Neuromonitoring and Neuroprotection in the CICU – *Daniel Licht*
- 3 p.m. Sedatives and Their Potential Toxicities
Andreas Loepke
- 3:15 p.m. Stress and Anxiety in the Cardiac Intensive Care Setting – *Amy Jo Lisanti*
- 3:30 p.m. Optimizing Outcomes Is a Team Sport
Jonathan Chen
- 3:45 p.m. Faculty Panel Q and A
- 4 P.M. ADJOURN

Plenary Session VII: 4 – 6 p.m.

Reflection on Lessons Learned: Wish I Knew Then What I Know Now

Experiences That Inform Who I Am and How I Practice and Care for Children with Heart Disease

- 4 p.m. Girish Shirali
- 4:15 p.m. Charles Berul
- 4:30 p.m. Christopher Caldarone
- 4:45 p.m. Catherine Krawczeski
- 5 p.m. Maully Shah
- 5:15 p.m. Jeffrey Towbin
- 5:30 p.m. Julie Vincent
- 5:45 p.m. Paul Stephens
- 6 P.M. ADJOURN

6 – 7 p.m. Highlighted Poster Session: Wine and Wisdom



♡ SUNDAY, FEB. 16

Plenary Session VIII: 7:30 a.m. – 12:30 p.m.

Clinical Problems and Practical Solutions in
Everyday Congenital and Pediatric Heart Care:
Here Is My Approach to ...

7:30 a.m.	Arrhythmia in the Adolescent <i>Jeffrey Anderson</i>	10 A.M.	BREAK
7:45 a.m.	The Borderline Prolonged QT Interval <i>Charles Berul</i>	10:15 a.m.	The Dilated Aorta in the Patient with CHD <i>Yuli Kim</i>
8 a.m.	The “Incidental” Finding of a Coronary Anomaly – <i>Julie Brothers</i>	10:30 a.m.	The Adolescent and Young Adult with Complex CHD and Depression <i>Adrienne Kovacs</i>
8:15 a.m.	The Coronary Artery Originating from the Pulmonary Artery – <i>Andreea Dragulescu</i>	10:45 a.m.	The Finding of LV Non-compaction <i>Angela Lorts</i>
8:30 a.m.	The Traveling Patient: Altitude, Oxygen and CHD – <i>Matthew Files</i>	11 a.m.	Assessing Quality of Life in the Pediatric Heart Clinic – <i>Bradley Marino</i>
8:45 a.m.	Evaluation and Management of Hypertrophic Cardiomyopathy <i>Mark Friedberg</i>	11:15 a.m.	The Adolescent after Coarctation Repair with Recurrent Arch Narrowing – <i>David Nykanen</i>
9 a.m.	The Leaky Aortic Valve with Moderate Stenosis – <i>James Tweddell</i>	11:30 a.m.	The Child with a Secundum Atrial Septal Defect <i>Michael O’Byrne</i>
9:15 a.m.	The Pediatric Patient with Chest Pain <i>Vincent Zales</i>	11:45	The Child with Supraventricular Tachycardia <i>Robert Pass</i>
9:30 a.m.	The Brugada Pattern: What Is It? What Should We Do About It? <i>Christopher Janson</i>	Noon	The Fragile Infant at Home Following Stage 1 Norwood Palliation – <i>Chitra Ravishankar</i>
		12:15 p.m.	Management of the Discrete Fibrous Subaortic Membrane – <i>Lindsay Rogers</i>
		12:30 P.M.	ADJOURN. SEE YOU ALL NEXT YEAR IN BEAUTIFUL HUNTINGTON BEACH, CALIFORNIA!

FACULTY

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Geoffrey Bird, MD, MSRS
Jonathan Chen, MD
Meryl Cohen, MD
Mitchell Cohen, MD
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Denise Donaghue, MSN
Craig Fleishman, MD
Alan Friedman, MD
Stephanie Fuller, MD
J. William Gaynor, MD
David Goldberg, MD
Yuli Kim, MD
Mark Lewin, MD
Daniel Penny, MD, PhD
Jonathan J. Rome, MD
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Robert Shaddy, MD
Maully Shah, MBBS
Girish Shirali, MBBS
James Steven, MD

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VISION 20/20

PEDIATRIC & CONGENITAL HEART DISEASE

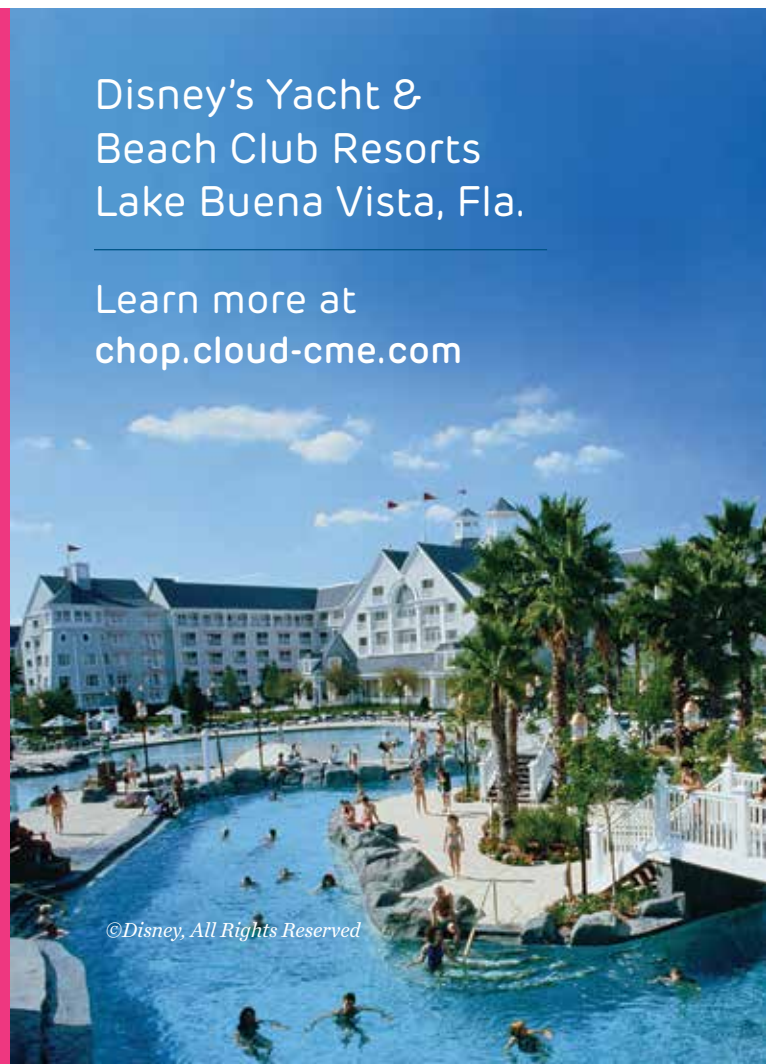
**LESSONS FROM THE PAST,
A BOLD LOOK TOWARD THE FUTURE**

FEB. 12-16, 2020

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