

Cardiology ♥ 2016



**Feb. 24 – 28,
2016**

**Loews Royal Pacific Resort
at Universal Orlando®**

Orlando, Fla.

19th Annual Update on Pediatric and Congenital Cardiovascular Disease

Bringing Science to Clinical Practice

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.

For more information, visit www.chop.edu/cardiology2016.

 The Children's Hospital of Philadelphia®

 **CARDIAC CENTER**



chop.edu/cardiology2016



twitter.com/heartcare4kids



facebook.com/TheCardiacCenteratCHOP

Cardiology 2016

Welcome

The practice of pediatric and congenital cardiovascular care involves a multitude of conditions presenting at a variety of ages. A myriad of various congenital malformations of the cardiovascular system exist in nature, each with its own unique pathophysiology. Previously healthy young hearts may also acquire disease. Our discipline now spans care from the earliest point of gestation in fetal life to the mature adult, each era presenting its own set of unique aspects influencing strategies of care and outcome. All of these factors contribute to the need for a huge body of knowledge that must be at the fingertips of healthcare providers in order to offer the latest state-of-the-art care to our patients. Our discipline is still a young one, with new information being generated at a regular pace; however, a strong evidence base for clinical practice can often be difficult to find due to all of the permutations of disease variety and complexity.

It is with this in mind that we present the **19th Annual Update on Pediatric and Congenital Cardiovascular Disease**. Our theme this year is “**Bringing Science to Clinical Practice**,” with an emphasis on current knowledge informing strategies of care. The course faculty will present multiple talks in plenary sessions, as well as presentations in subspecialty breakout sessions and a series of moderated panels of experts, covering all areas of the science informing practice for comprehensive care of the unborn, neonate, child and young adult with cardiovascular disease.

Course Highlights 2016

- Updates on the latest science and clinical management strategies in pediatric and congenital cardiovascular medicine and surgery from visionary experts in the field
- Featured premier opening plenary session lectures by outstanding speakers on the provocative subject of “what impacts clinical care”
- Informative and entertaining plenary session: “You have 15 minutes in front of a venture capitalist — make your best case! Novel technologies and innovations in congenital and pediatric cardiovascular care” with comments and feedback from a venture capital consultant
- Breakout sessions on a variety of topics for every subspecialty, including sessions on how to answer common clinical questions, thrombosis, preventative and outpatient cardiology, and research methodology, including the emerging role of “big data” analytics
- Expert moderated panel discussions on 1) heart transplantation and 2) the questions of “when is care futile?” and “when have we reached the limits of treatment?”

- Featured Rashkind (Cardiology), Lillehei (Surgery), Downes (Critical Care and Anesthesia), Rauch (Nursing) and Basic & Translational Science lectures by renowned professionals in the field
- New this year: Lunch roundtable panel discussions
- Dedicated nursing track including comprehensive preconference symposium on management of congenital heart malformations as well as nursing-specific breakout sessions and nursing research sessions
- Presentation of cutting-edge research through three days of abstract poster display and oral presentations with awards for best investigational research abstracts
- Preconference, full-day intensive symposia on 1) research training, 2) imaging, and 3) healthcare administration for pediatric and congenital cardiovascular disease
- Our second annual 5K Heart Run!
- Test your knowledge against the experts in an entertaining and informative Quiz Bowl competition
- Hear from the absolute best speakers in the field on the most up-to-date topics while networking with colleagues and socializing in a relaxing, family-friendly, fun-filled environment!

Course Objectives 2016

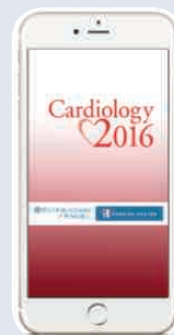
At the completion of this program, the participant will be better able to:

- Describe the science and knowledge base of information that supports clinical practice for the patient with pediatric and congenital cardiovascular disease
- Understand human, social, technical and organizational factors that impact clinical practice
- Identify the role of genomics in congenital heart disease
- Outline care and management of acquired heart disease in the pediatric population
- Review latest innovations and technologies in congenital and pediatric cardiovascular care
- Discuss challenges of growing up with congenital heart disease
- Describe current long-term outcomes in complex congenital heart disease
- Review latest concepts in the care and management of adult congenital heart disease
- Understand latest concepts in fetal cardiovascular care
- Identify solutions to many common questions related to the clinical care of patients with congenital heart disease

Cardiology 2016 Conference Dedicated App!

Key Features:

- Event schedule by day, track, topic and speaker
- Share feedback through in-app surveys
- Two-way contact
- Take and share notes within app
- And many, many more features!



- Describe current methodologies for research and discuss the potential benefits of “big data” analytics
- Manage the patient with congenital heart disease consisting of isolated ventricular septal defect, double-outlet right ventricle, and Ebstein's anomaly of the tricuspid valve
- Discuss concepts and controversies in anesthesia and critical care medicine
- Review concepts in preventative and outpatient cardiology
- Identify key factors that help determine optimal strategy of care for the neonate with borderline small ventricle
- Understand and manage the risks of thrombosis in the pediatric population with heart disease
- Discuss sports recommendations in congenital heart disease and channelopathies
- Identify and solve challenges seen in the cardiac catheterization laboratory
- Describe the spectrum of neurocognitive deficit seen in children with congenital heart disease
- Detect and diagnose abnormalities on EKG and understand pacemaker settings
- Understand the challenges and benefits of heart transplantation
- Discuss the factors that contribute to our boundaries of care and define when care is futile in the patient with congenital heart disease
- Describe the latest research in cardiology, surgery, nursing, and perfusion in the science and clinical care of pediatric and congenital cardiovascular disease

Call for Abstracts

Timeline

Abstract Submission Deadline:
Notification of Acceptance:
Oral Presentations:

Friday, Oct. 30, 2015 (Noon EST)
Monday, Nov. 16, 2015
Thursday, Feb. 25 and Friday, Feb. 26, 2016

Poster Presentations: Thursday, Feb. 25 through
Saturday, Feb. 27, 2016
Award Presentations: Saturday, Feb. 27, 2016

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. The abstracts will be graded by the course faculty in a blinded fashion.

Accepted Abstracts:

- Accepted abstracts will be published in early 2016, in the *World Journal for Pediatric and Congenital Heart Surgery* (visit <http://pch.sagepub.com>).

- On Thursday, Feb. 25 and Friday, Feb. 26, 2016, the top abstracts will be presented as eight-minute oral presentations and the top nursing abstracts will be presented in a moderated poster 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 12th Annual Outstanding Physician Scientist Award and the 10th Annual Outstanding Nurse Scientist Award. The award winners will each be recognized at the featured plenary session on Feb. 27, 2016, and will receive a complimentary registration for Cardiology 2017 and a \$500 travel grant.

Electronic submission only. See www.chop.edu/cardiology2016 for details. Abstract acceptance does not include course registration fee or hotel accommodations.

General Information

Registration

The conference will be held Wednesday, Feb. 24 through Sunday, Feb. 28, 2016, at the Loews Royal Pacific Resort at Universal Orlando. Registration will take place Wednesday, Feb. 24 from 6:30 a.m. to 6 p.m. and Thursday, Feb. 25 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, lunch and one ticket to the Blue Man Show.

Physicians \$950

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

Optional Preconference Seminars

#1: Research Training in CHD..... \$150

#2: Challenges and Opportunities in Healthcare Administration
for Children with Heart Disease \$150

#3: State-of-the-Art Imaging for CHD..... \$150

#4: A Comprehensive Review for Nursing and
Front-line Providers \$150

ACCME Accreditation Statement

The 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

The Children's Hospital of Philadelphia designates this live activity for a maximum of 41.25 *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. 24, 2016

Optional Preconference Seminars – 8 a.m. to 3:30 p.m.

#1 Research Training = 5.75

#2 Challenges and Opportunities = 5.75

#3 Imaging = 5.75

Main Conference: Wednesday, Feb. 24 (p.m.) to Sunday, Feb. 28, 2016

Total *AMA PRA Category 1 credits*[™] = 35.50

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

The 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, The 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, Feb. 1, 2016. Refunds will be issued for the amount of registration less a \$75 service charge.

Hotel Information

A block of rooms has been reserved at Loews Royal Pacific Resort. The group rate is \$229 single or double occupancy plus a 12.5 percent room tax. Participants are required to make their own hotel reservations by calling the hotel directly at 866-360-7395.

For the reduced conference rate, mention the name of this conference when making your reservation. The conference rate covers Feb. 22 – Feb. 29, 2016, and will be available only until Monday, Feb. 1, 2016. Reservations made after Feb. 1 will be accepted based on space and rate availability.



OPTIONAL PRECONFERENCE #1

Research Training in Pediatric and Congenital Cardiovascular Disease

8 a.m.	Opening Remarks <i>Robert Levy, M.D.</i>	11:10 a.m.	The Key to Success: Setting Up Your Own Laboratory <i>H. Scott Baldwin, M.D.</i>
8:15 a.m.	An Overview of Clinical Research Training in Pediatric Cardiology <i>Jane Newburger, M.D.</i>	11:30 a.m.	The Key to Success: Value of Advanced Training and Degree in Master of Science in Clinical Epidemiology <i>Andrew Glatz, M.D., M.S.C.E.</i>
8:45 a.m.	An Overview of Laboratory and Translational Research Training in Pediatric Cardiology <i>Bruce Gelb, M.D.</i>	11:50 a.m.	Faculty Panel Discussion: Q & A
9:15 a.m.	Pathway to a Successful Basic Science Career in the Field of Pediatric Cardiology <i>H. Scott Baldwin, M.D.</i>	Noon	Lunch
9:45 a.m.	Faculty Panel Discussion: Q & A	1 p.m.	Oral Presentations by Selected Research Trainees with Faculty Feedback <i>Robert Levy, M.D.</i> <i>Eric Graham, M.D.</i> <i>Sara Pasquali, M.D., M.H.S.</i> <i>H. Scott Baldwin, M.D.</i> <i>and Faculty</i>
10:15 a.m.	Break	3:15 p.m.	Adjourn
10:30 a.m.	The Key to Success: Grant Applications: The Dos and Don'ts <i>Bruce Gelb, M.D.</i>		
10:50 a.m.	The Key to Success: Organizing Your Clinical Research Group <i>Jane Newburger, M.D.</i>		

OPTIONAL PRECONFERENCE #2

Challenges and Opportunities in Healthcare Administration for Children with Heart Disease

8 a.m.	Innovations in Delivery of Care: Can We Improve Value and Deliver Better Care More Efficiently and at a Lower Cost? <i>Maryanne Kessel, R.N., M.B.A.</i>	11:30 a.m.	Faculty Panel: Q & A
8:30 a.m.	Understanding the Dynamics of a Pediatric Cardiac Service Line Through Use of Dashboards, Scorecards, Metrics and Trend Analysis <i>Mark Schwartz, M.B.A.</i>	Noon	Lunch
9 a.m.	Healthcare Costs and the Value Equation <i>Evan Fieldston, M.D.</i>	1 p.m.	Benefits and Challenges in Creating a Network of Healthcare <i>Arthur Klein, M.D.</i>
9:30 a.m.	Measuring Hospital Performance and Costs for Congenital Heart Disease Surgery <i>Sara Pasquali, M.D., M.H.S.</i>	1:30 p.m.	What Keeps a Freestanding Children's Hospital Sustainable: Expanding Footprint through Diversification of Scope <i>Madeline Bell</i>
10 a.m.	Faculty Panel: Q & A	2 p.m.	Roundtable Discussion: How Best to Deliver High-Quality Pediatric Heart Care: Balancing the Business, Clinical and Academic Objectives in a Changing Environment Panel Leaders: <i>Lawrence Barnes, M.B.A.</i> ; <i>Maryanne Kessel, R.N., M.B.A.</i> Panel Participants: <i>Evan Fieldston, M.D.</i> ; <i>James O'Brien, M.D.</i> ; <i>Daniel Penny, M.D., Ph.D.</i> ; <i>Arthur Klein, M.D.</i> ; <i>Robert Shaddy, M.D.</i> ; <i>Suzanne A. Worthington</i>
10:15 a.m.	Break	3 p.m.	Adjourn
10:30 a.m.	Is There Room for Innovative Care in the Current Business Model of Medicine and Surgery? <i>N. Scott Adzick, M.D.</i>		
11 a.m.	Opportunities for Partnership: Venture Capital and Pediatric Healthcare <i>Steve Barsh</i>		

OPTIONAL PRECONFERENCE #3

Imaging for Pediatric and Congenital Cardiovascular Disease

8 a.m.	Approach to the Newborn Echocardiogram <i>Michael Brook, M.D.</i>	11:05 a.m.	Vascular Imaging and Functional Analysis in Children <i>Shobha Natarajan, M.D.</i>
8:20 a.m.	Transesophageal Echocardiography in Intraoperative Assessment of Congenital Heart Repair: Benefits and Limitations <i>Meryl Cohen, M.D.</i>	11:25 a.m.	The Concept of Arterial Tortuosity: A Clue to Prognosis in Pediatric Cardiovascular Disease? <i>Shaine Morris, M.D., M.P.H.</i>
8:40 a.m.	Role of Echocardiography in the Cardiac Catheterization Laboratory <i>David Goldberg, M.D.</i>	11:45 a.m.	Faculty Panel: Q & A
9 a.m.	3D Echo: Utility, Benefits and Limitations — Where Are We in 2016? <i>Girish Shirali, M.B.B.S.</i>	Noon	Lunch
9:20 a.m.	Primer on Cardiac MRI: The Basics — How Does it Work? What Can We See? ... and What Is a “Sequence”? <i>Mark Fogel, M.D.</i>	1 p.m.	Evaluation of Myocardial Function via Echocardiography: Utility in Clinical Decision Making in Pediatric and Congenital Cardiovascular Disease <i>Mark Friedberg, M.D.</i>
9:50 a.m.	Faculty Panel: Q and A	1:30 p.m.	Evaluation of Myocardial Function via MRI: Utility in Clinical Decision Making in Pediatric and Congenital Cardiovascular Disease <i>Mark Fogel, M.D.</i>
10 a.m.	Break	2 p.m.	This Condition Is Best Imaged by This Modality ... and ... My Most Interesting Patient: A Roundtable Discussion of Real Case Scenarios <i>Michael Brook, M.D.; Meryl Cohen, M.D.; Mark Fogel, M.D. Mark Friedberg, M.D.; Craig Sable, M.D.; Lloyd Tani, M.D.</i>
10:15 a.m.	Technological Advances in Acquisition and Transmission: Handheld Echocardiography and Telemedicine for Pediatric and Congenital Cardiovascular Disease <i>Craig Sable, M.D.</i>	3 p.m.	Adjourn
10:45 a.m.	Role of Echocardiography in Decision Making for Atrioventricular Valve Insufficiency <i>Lloyd Tani, M.D.</i>		

OPTIONAL PRECONFERENCE #4

The Essentials of CHD and Postoperative Management: A Comprehensive Review for Nursing and Front-line Providers

7:30 a.m.	Terminology of “Normal” Cardiac Anatomy <i>Paul Weinberg, M.D.</i>	11:20 a.m.	Tetralogy of Fallot <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — James O'Brien, M.D. Postoperative Care and Outcomes — Dawn Tucker, D.N.P., C.P.N.P.-A.C.</i>
7:45 a.m.	Essentials of the Embryology of the Normal Heart <i>H. Scott Baldwin, M.D.</i>	11:40 a.m.	Truncus Arteriosus <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — William M. DeCampli, M.D., Ph.D. Postoperative Care and Outcomes — Kathryn Dodds, M.S.N., C.R.N.P.-A.C.</i>
8 a.m.	Screening, Diagnosis and Preoperative Assessments <i>Kathryn Dodds, M.S.N., C.R.N.P.-A.C.</i>	Noon	D-Transposition of the Great Arteries <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — Stephanie Fuller, M.D. Postoperative Care and Outcomes — Kathryn Dodds, M.S.N., C.R.N.P.-A.C.</i>
8:15 a.m.	Open Heart Surgery: CPB, X Clamp, Circulatory Arrest <i>Stephanie Fuller, M.D.</i>	12:20 p.m.	Lunch
8:30 a.m.	Early Postoperative Management <i>Roxanne Kirsch, M.D.</i>	12:40 p.m.	Total Anomalous Pulmonary Venous Return <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — James O'Brien, M.D. Postoperative Care and Outcomes — Clare Kranz, M.S.N., C.P.N.P.-P.C.</i>
8:45 a.m.	Break: 15 minutes	1 p.m.	Coarctation of the Aorta <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — William M. DeCampli, M.D., Ph.D. Postoperative Care and Outcomes — Dawn Tucker, D.N.P., C.P.N.P.-A.C.</i>
9 a.m.	Echocardiography: Effusions, Function, Obstruction, Regurgitation, Thrombus, and Holes ... in 15 Minutes! <i>David Goldberg, M.D.</i>	1:15 p.m.	Single Ventricle: Stage 1, Bidirectional Glenn, Fontan <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — Stephanie Fuller, M.D. Postoperative Care and Outcomes — Kathryn Dodds, M.S.N., C.R.N.P.-A.C.</i>
9:15 a.m.	What the Chest X-ray Can and Cannot Show You <i>Geoffrey L. Bird, M.D., M.S.I.S.</i>	2 p.m.	Discharge Planning and Home Monitoring <i>Karen L. Iacono, M.S.N., A.R.N.P.-B.C.</i>
9:30 a.m.	How to Decipher Cardiac Catheterization Data <i>Matthew Schwartz, M.D.</i>	2:20 p.m.	The Brain and Congenital Heart Disease <i>Daniel Licht, M.D.</i>
9:45 a.m.	Postoperative Arrhythmias: SVT, JET, Heart Block, VT <i>Maully Shah, M.B.B.S.</i>	2:40 p.m.	Neurocardiac Followup: Why, When and How <i>Kathleen Mussatto, R.N., Ph.D.</i>
10 a.m.	ECMO and Mechanical Support in Children with CHD <i>Chitra Ravishankar, M.D.</i>	3 p.m.	Q and A
10:15 a.m.	Sedation and Pain Management after Cardiac Surgery <i>Joshua Blinder, M.D.</i>	3:30 p.m.	Adjourn
10:30 a.m.	Break: 10 minutes		
10:40 a.m.	Ventricular Septal Defect <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — William M. DeCampli, M.D., Ph.D. Postoperative Care and Outcomes — Patricia Sieffert, M.S.N., A.R.N.P.</i>		
11 a.m.	Complete Common Atrioventricular Canal Defect <i>Anatomy/Morphology — Paul Weinberg, M.D. Surgery — James O'Brien, M.D. Postoperative Care and Outcomes — Dawn Tucker, D.N.P., C.P.N.P.-A.C.</i>		

Main Conference • Opening Plenary Session 4 – 7:15 p.m.

What Impacts Clinical Care?

- 4 p.m. Opening Remarks
Jack Rychik, M.D.
- 4:10 p.m. Human Factors and Teams in Congenital Heart Disease Care
Daniel Penny, M.D., Ph.D.
- 4:30 p.m. Proficiency and Technical Factors in Congenital Heart Surgery
Victor Tsang, M.D.
- 4:50 p.m. A Roadmap: The Fetal Surgery Model of Bringing Research to Innovative Clinical Care
N. Scott Adzick, M.D.
- 5:10 p.m. Data Analytics: Information Science Innovations to Improve Clinical Practice
Joel Dudley, Ph.D.
- 5:30 p.m. A Strategy for Healthcare Administration: Navigating the Current Environment
Arthur Klein, M.D.
- 5:50 p.m. Healthcare Provider Well Being: Influence of the Life-Work Balance on Clinical Care
Dennis Durbin, M.D.
- 6:10 p.m. A Sense of Purpose: Pediatric Healthcare in Rural America
Larry Rhodes, M.D.
- 6:30 p.m. Inspiration
Paul Cardall
- 7:15 p.m. Adjourn

Dinner on Your Own

6:30 p.m. SPECIAL EVENT — A Musical Interlude with Paul Cardall

Paul Cardall

“He is one of the most accomplished and discriminating artists in the world.”
—Jenn Gordon, Artist Manager, Steinway & Sons

Paul Cardall is a Steinway & Sons sponsored pianist and a two-time No. 1 Billboard artist with seven other recordings that debuted on Billboard’s top 10 New Age chart without any major label support. His most recent album, “40 Hymns for Forty Days,” debuted at No. 1 and was listed on Billboard’s Heatseeker’s list, which ranks new artist popularity across all music genres.

Paul’s soothing, melodic style is born out of his compassion to help others endure hardship and connect to the strength of the soul. The passion he exudes during his performances is rooted in personal experience because the pianist has endured difficult challenges. He was born with essentially half a functioning heart, which required immediate surgery when Paul was less than a day old. His life-threatening congenital heart disease and a series of difficult surgeries throughout his life, including a heart transplant, has given Paul wisdom, depth and understanding that only music could express to heal hearts and minds of people all over the world.

Based in Salt Lake City, Paul has built a loyal — and ever growing — audience around the world through several social media channels. From Cairo to Chicago, Sydney to Madrid, Paul’s fans live in more than 100 nations. He adds 200 new listeners per day, reaches more than 600,000 Facebook users per week, garners more than 384 million listeners to his Pandora Radio station, and his YouTube channel has been viewed by more than 2 million people.

In addition to his recording career, Paul founded Stone Angel Music in 1999, which owns a catalogue of recordings by other similar artists. He launched cellist Steven Sharp Nelson’s (The Piano Guys) recording career releasing three recordings which debuted on Billboard classical charts. As part of Stone Angel Music, Paul built one of Salt Lake City’s premier recording studios.

Steinway & Sons Artist Manager Jenn Gordon said, “Paul’s commitment to excellence in his artistic and professional achievements makes it most appropriate that he is included on the Steinway Artist Roster, a list of the most accomplished and discriminating artists in the world.” Other artists on this roster include: Irving Berlin, Sergei Rachmaninov, Duke Ellington, Gina Bachauer, to name a few.

Visit www.stoneangelmusic.com, www.paulcardall.com, iTunes, Amazon.com or other websites to purchase the music of Paul Cardall. ■



7 – 8 a.m. Nursing Pharmacology Breakfast

Vasoactive Medications: What You Should Know About Epinephrine, Norepinephrine, Dopamine, Dobutamine, Milrinone, Nipride and Vasopressin
Kathryn Dodds, M.S.N., C.R.N.P.-A.C.; Dawn Tucker, D.N.P., C.P.N.P.-A.C.; Sandy Staveski, Ph.D., R.N., C.P.N.P.-A.C.; Karen L. Iacono, M.S.N., A.R.N.P.-B.C.; Clare Kranz, M.S.N., C.P.N.P.-P.C.

Plenary Session II

The Genomics Revolution

- 8 a.m. The Genetic Architecture of Congenital Heart Disease
Bruce Gelb, M.D.
- 8:20 a.m. Genetic Testing: The Toolbox in the Clinical Setting
Wendy Chung, M.D., Ph.D.
- 8:40 a.m. Genotype and Outcome: Promises and Challenges
Elizabeth Goldmuntz, M.D.
- 9 a.m. The Genetics of Cardiomyopathy
John L. Jeffries, M.D.
- 9:20 a.m. Ethical Considerations in the Era of Genetic Evaluation
Ian Krantz, M.D.
- 9:40 a.m. Faculty Panel: Q & A



Break/Visit the Exhibits • 10 – 11 a.m.
Poster Session #1



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

NURSING: WHAT DOES THE EVIDENCE SAY ABOUT ...

- 11 a.m. Should We Use APNs in the CICU? • *Dawn Tucker, D.N.P., C.P.N.P.-A.C.*
- 11:15 a.m. When Does Skin Care Begin? • *Leigh Ann DiFusco, M.S.N., C.N.O.R., P.C.N.S.-B.C.*
- 11:30 a.m. Can Simulation Improve Competency of New Bedside Nurses? • *Heather Meldrum, R.N., B.S.N., C.C.R.N.*
- 11:45 a.m. Alternative Pain Management Strategies: Do They Work? • *Sandy Staveski, Ph.D., R.N., C.P.N.P.-A.C.*
- Noon PGE: To Feed or Not to Feed? • *Clare Kranz, M.S.N., C.P.N.P.-P.C.*
- 12:15 p.m. Nursing Practice Models • *Alexis Perri, M.S.N., C.R.N.P.*
- 12:30 p.m. Fetal Diagnosis of CHD: What Is the Impact on Maternal Stress? • *Denise Donaghue, M.S.N.*
- 12:45 p.m. Adults in the Pediatric ICU: Is That the Optimal Place for Care? • *David Drapuch, M.S.N., C.R.N.P.*
- 1 p.m. Adjourn

ADVANCES IN PEDIATRIC CARDIOPULMONARY BYPASS

- 11 a.m. Future of Blood Product Usage During Pediatric Cardiopulmonary Bypass • *Richard Melchior, C.C.P., M.P.S., F.R.P.*
- 11:20 a.m. Cerebral Perfusion: The Dos and Don'ts • *Gary Plancher, C.C.P.*
- 11:40 a.m. Sugar and Spice: Glucose Control and Cardiopulmonary Bypass • *Hamish Munro, M.D.*
- Noon Are Intra-operative Considerations Enough to Achieve the Goals for Bloodless Cardiac Surgery? • *Bharat Datt, C.C.P., C.P.C., F.R.P.*
- 12:20 p.m. A Case Study: Argatroban Anticoagulation Therapy During ECMO and CPB Including a Double Exchange Transfusion for HLA Antibodies • *Kevin Charrette, C.C.P.*
- 12:40 p.m. NIRS: Are We Using It on the Right Patients? • *Francis McGowan, M.D.*
- 1 p.m. Adjourn

ISOLATED VENTRICULAR SEPTAL DEFECT — REVISITED!

- 11 a.m. Anatomy • *Paul Weinberg, M.D.*
- 11:20 a.m. Imaging • *Craig Fleishman, M.D.*
- 11:40 a.m. Pathophysiology, Clinical Impact and Decision Making • *Paul Stephens, M.D.*
- Noon Surgical Treatments • *James O'Brien, M.D.*
- 12:20 p.m. Short- and Long-term Outcomes • *Matthew O'Connor, M.D.*
- 12:40 p.m. Faculty Panel: Q & A
- 1 p.m. Adjourn

ANSWERING THE IMPORTANT QUESTIONS: BIG DATA, RESEARCH METHODOLOGY AND INFRASTRUCTURE

- 11 a.m. What Is Big Data and How Do We Analyze It? • *Joel Dudley, Ph.D.*
- 11:20 a.m. Creating the Proper Infrastructure for Pediatric Research • *Dennis Durbin, M.D.*
- 11:40 a.m. Not All Data Are Created Equal: Integration of Multiple Data Sets to Improve Quality of Care • *Sara Pasquali, M.D., M.H.S.*
- Noon Clinical Trials in Pediatric Cardiology: The Good and the Bad • *Brian McCrindle, M.D.*
- 12:20 p.m. Moderated Panel Discussion: Answering the Important Questions in Pediatric and Congenital Heart Care
Panel Leader: *J. William Gaynor, M.D.*
Panel Participants: *Joel Dudley, Ph.D.; Dennis Durbin, M.D.; Brian McCrindle, M.D.; Sara Pasquali, M.D., M.H.S.*
- 1 p.m. Adjourn

COMMON CLINICAL QUESTIONS IN CONGENITAL AND PEDIATRIC HEART CARE I

- 11 a.m. When Is it Time to Replace the Pulmonary Valve in My Patient with Tetralogy of Fallot and How Best To Do It? • *Jonathan J. Rome, M.D.*
- 11:20 a.m. What Should I Do with My Patient Who Has a Dilated Aorta? • *Yuli Kim, M.D.*
- 11:40 a.m. How Should I Treat My Patient with Wolff-Parkinson-White Syndrome? • *Maully Shah, M.B.B.S.*
- Noon What Should I Do About the Liver in My Patients After Fontan Operation? • *Wendy Book, M.D.*
- 12:20 p.m. What Should I Do About My Patient With Non-compaction Type Cardiomyopathy? • *John L. Jefferies, M.D.*
- 12:40 p.m. Faculty Panel: Q & A
- 1 p.m. Adjourn

BOXED LUNCH • 1 – 2 p.m.

1 – 2 p.m. Optional Lunch Roundtable: Case Discussions with the Experts

Roundtable 1

Neurocognitive Outcome in CHD: The Current State of Affairs

Panel Discussion: J. William Gaynor, M.D. (leader); Daniel Licht, M.D.; Bradley S. Marino, M.D., M.P.P., M.S.C.E.; Jane Newburger, M.D.

Roundtable 2

Trials and Tribulations in the Cardiac Catheterization Laboratory: Case-Based Presentations

Panel Discussion: Jonathan J. Rome, M.D. (leader); Lee Benson, M.D.; Audrey Marshall, M.D.; Matthew Gillespie, M.D.; Stephen Kaine, M.D.

MODERATED PANEL OF EXPERTS • 2 – 3 p.m.

Heart Transplantation for Congenital and Pediatric Cardiovascular Disease in 2016

Panel: Robert Shaddy, M.D. (leader); Charles Fraser, M.D.; John L. Jeffries, M.D.; Karen McCandless, C.R.N.P.; Victor Morrell, M.D.; Mark Rodefeld, M.D.; Joseph Rossano, M.D.

ORAL ABSTRACTS • 3 – 4 p.m.

BREAK • 4 – 4:15 p.m.

Plenary Session III

YOU HAVE 15 MINUTES IN FRONT OF A VENTURE CAPITALIST – MAKE YOUR BEST CASE! NOVEL TECHNOLOGIES AND INNOVATIONS IN CONGENITAL AND PEDIATRIC CARDIOVASCULAR CARE

- 4:15 p.m. Extubation After Surgery: A Model for Multicenter Collaborative Learning
Susan Nicolson, M.D.
- 4:30 p.m. Ventricular Assist Technologies in the Pediatric Population
Joseph Rossano, M.D.
- 4:45 p.m. Lymphatic System Imaging and Interventional Treatment for CHD
Yoav Dori, M.D.
- 5 p.m. Altering Neurocognitive Outcomes Through Fetal Intervention
J. William Gaynor, M.D.
- 5:15 p.m. Computer Software Technologies to Assist Patients and Healthcare Providers
Girish Shiral, M.B.B.S.
- 5:30 p.m. Molecular Therapy for Right Ventricular Failure
Francis McGowan, M.D.
- 5:45 p.m. Innovations in Overcoming Technical Challenges and Improving Outcomes Following Fetal Cardiac Intervention
Audrey Marshall, M.D.
- 6 p.m. Computational Fluid Dynamics in CHD
William M. DeCamp, M.D., Ph.D.
- 6:15 p.m. MRI and 3D Printing for CHD
Mark Fogel, M.D.
- 6:30 p.m. A Fontan Mechanical Assist Device
Mark Rodefeld, M.D.
- 6:45 p.m. Review of Ideas Presented: Perspective From a Venture Capitalist
Steve Barsh, Chief Innovation Officer, Managing Director, DreamIt Health
- 7 p.m. Adjourn



7–8 a.m. Special Breakfast Session: EKG and Rhythm Strip Review

Case-Based Presentations

Mitchell Cohen, M.D.; Maully Shah, M.B.B.S.; Larry Rhodes, M.D.

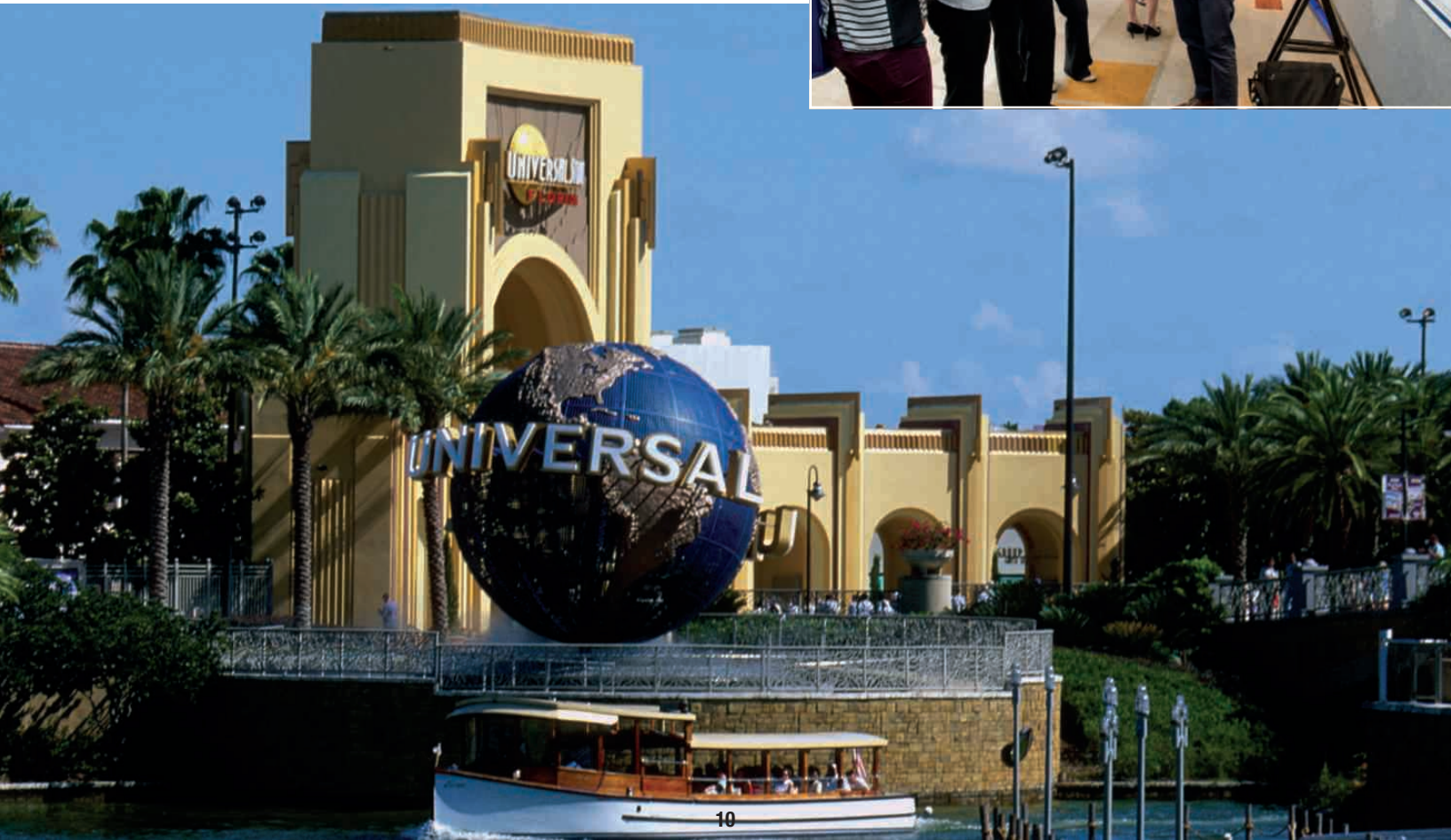
Plenary Session IV

When Bad Things Happen to Good Hearts: Treatment and Outcomes in 2016 for ...

- 8 a.m. Myocarditis
Robert Shaddy, M.D.
- 8:20 a.m. Sickle Cell Anemia
Craig Sable, M.D.
- 8:40 a.m. Anthracycline Toxicity
Matthew O'Connor, M.D.
- 9 a.m. Rheumatic Heart Disease
Lloyd Tani, M.D.
- 9:20 a.m. Kawasaki Disease
Jane Newburger, M.D.
- 9:40 a.m. Faculty Panel: Q & A
Faculty
- 10 a.m. Adjourn



Break/Visit the Exhibits • 10 – 11 a.m.
Poster Session #2



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

NURSING: NURSING RESEARCH AND ORAL ABSTRACTS

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

PERFUSION: ADVANCES IN MECHANICAL ASSIST AND ECMO

11 a.m. Innovations in Mechanical Assist: Current Approaches • *J. William Gaynor, M.D.*
 11:20 a.m. Mechanical Assist to Transplant: Things to Consider • *Joseph Rossano, M.D.*
 11:40 a.m. Anticoagulation for Mechanical Assist: Best Practices • *Geoffrey L. Bird, M.D., M.S.I.S.*
 Noon Two Pumps, One Heart: Heartware BiVAD — Case Presentation • *Tami Rosenthal, M.B.A., C.C.P.*
 12:20 p.m. ECMO Circuit Arterial Line Clot Removal: How Do We Do It and Is It a Good Idea in the First Place? • *Kevin Charrette, C.C.P.*
 12:40 p.m. Faculty Panel: Q & A
 1 p.m. Adjourn

DOUBLE-OUTLET RIGHT VENTRICLE

11 a.m. Anatomy • *Paul Weinberg, M.D.*
 11:20 a.m. Imaging • *Mark Friedberg, M.D.*
 11:40 a.m. Pathophysiology, Clinical Impact and Decision Making • *Anita Szwast, M.D.*
 Noon Surgical Treatment • *Victor Tsang, M.D.*
 12:20 p.m. Short- and Long-term Outcomes • *Susan Schachtner, M.D.*
 12:40 p.m. Faculty Panel: Q & A
 1 p.m. Adjourn

PREVENTATIVE AND OUTPATIENT CARDIOLOGY

11 a.m. Establishing a Neurodevelopmental Clinic for Congenital Heart Disease • *Bradley S. Marino, M.D., M.P.P., M.S.C.E.*
 11:20 a.m. Setting Up Pathways for Evaluation of Common Problems: Chest Pain, Heart Murmurs and Other Conditions • *Paul Stephens, M.D.*
 11:40 a.m. Creating a Multidisciplinary Clinic for the Patient with a Fontan Circulation • *Kathryn Dodds, M.S.N., C.R.N.P.-A.C.*
 Noon Evaluating and Managing Hypertension in the Pediatric Patient • *Shobha Natarajan, M.D.*
 12:20 p.m. Childhood Prevention of Late Atherosclerosis: Can We Control the Future? • *Stephen Daniels, M.D., Ph.D.*
 12:40 p.m. Pulse Oximetry in the Newborn Nursery • *Steven Kaine, M.D.*
 1 p.m. Adjourn

CONCEPTS AND CONTROVERSIES IN ANESTHESIA AND CRITICAL CARE

11 a.m. Role of ECMO Utilization in CHD Care and Outcomes • *Chitra Ravishankar, M.D.*
 11:20 a.m. Pediatric Anesthesia: Impact on Neurodevelopment - Reality or Fiction? • *Francis McGowan, M.D.*
 11:40 a.m. New Ideas on Reducing Waste and Delivering Higher Value Care in the Cardiac ICU • *Geoffrey L. Bird, M.D., M.S.I.S.*
 Noon Ventilatory Strategies in CHD Care • *Andrew Costarino, M.D.*
 12:20 p.m. Renal Injury and Congenital Heart Surgery • *Joshua Blinder, M.D.*
 12:40 p.m. Perspectives on Quality and Safety in Pediatric Anesthesia • *C. Dean Kurth, M.D.*
 1 p.m. Adjourn

BOXED LUNCH • 1 – 2 p.m.

1 – 2 p.m. Optional Lunch Roundtable: Case Discussions with the Experts

Roundtable 1

Genetics in Congenital Heart Disease: Case-Based Presentations

Elizabeth Goldmuntz, M.D. (leader); H. Scott Baldwin, M.D.; Wendy Chung, M.D., Ph.D.; Bruce Gelb, M.D.; Ian Krantz, M.D.; Shaine Morris, M.D., M.P.H.

Roundtable 2

Sports Recommendations in Congenital Heart Disease, or Channelopathies: Case-Based Presentations

Mitchell Cohen, M.D. (leader); Stephen Paridon, M.D.; Maully Shah, M.B.B.S.; Paul Stephens, M.D.

ORAL ABSTRACTS • 3 – 4 p.m.

Plenary Session V

The Challenges of Growing Up With Congenital Heart Disease

- 4 p.m. Quality of Life in CHD: How Is it Defined? How Do We Measure It?
Bradley S. Marino, M.D., M.P.P., M.S.C.E.
- 4:20 p.m. Exercise Recommendations: Evidence or Whimsy?
Stephen Paridon, M.D.
- 4:40 p.m. Learning Issues: To What Extent, Why and in Whom?
Kathleen Mussatto, R.N., Ph.D.
- 5 p.m. Mood Disorders in the Grown-up with Congenital Heart Disease
Adrienne Kovacs, Ph.D.
- 5:20 p.m. Family Perspective: Our Experiences and the Impact of CHD
Richard Seidel
- 5:40 p.m. Patient Perspective: A Heart from the 1950s
Cheryl Dickens
- 6:05 p.m. Congenital Heart Surgery: Historical Perspective on How Far We Have Come...
Erle H. Austin III, M.D.
- 6:30 p.m. Adjourn



All conference attendees will receive one ticket for Friday, Feb. 26 from 8 to 10 p.m. Additional tickets for guests of conference attendees are available on a first-come, first-served basis. You can purchase additional show tickets when you register for the conference. We have a limited number of tickets so please place your order as soon as possible. You will receive your tickets at registration on Wednesday, Feb. 24.

Additional Tickets Pricing:

\$50: Adults • \$25: Kids (ages 3 – 9)

Get ready to experience Blue Man Group at Universal Orlando® Resort. We have reserved a private Blue Man Group show just for you; it's comedy, theater, rock concert and dance party all rolled into one.

This wildly popular phenomenon delivers an unforgettable multisensory experience and has captivated 35 million people worldwide. It's an outrageous evening of entertainment – and it's all yours! DARE TO LIVE IN FULL COLOR!





Exercise your body *and* your mind!



When: Saturday, Feb. 27, 2016

Start Time: 6:15 a.m.

Where: Royal Pacific Resort

Registration required and *limited to the first 200 registrants*

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



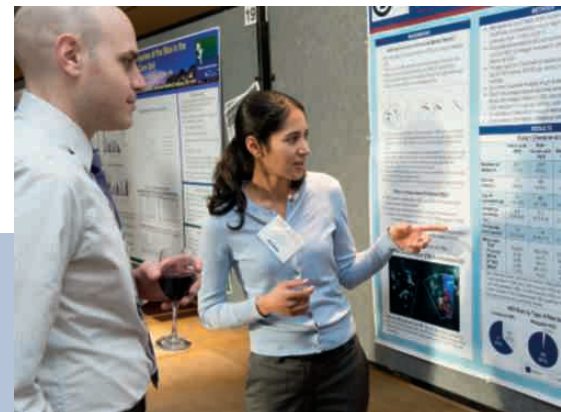
Part of the proceeds will be donated to charity to support CHD care and research.

Come out to run or to cheer on your colleagues!

Plenary Session VI

Awards and Featured Lectures

- 8 a.m. 14th Annual William J. Rashkind Memorial Lecture in Pediatric Cardiology
Stephen Daniels, M.D., Ph.D.
- 8:25 a.m. 16th Annual C. Walton Lillehei Memorial Lecture in Cardiovascular Surgery
Charles Fraser, M.D.
- 8:50 a.m. Eighth Annual Jack Downes Lecture in Cardiac Anesthesia and Critical Care
C. Dean Kurth, M.D.
- 9:15 a.m. Fifth Annual Featured Lecture in the Cardiovascular Basic and Translational Sciences
Kent Thornburg, Ph.D.
- 9:40 a.m. 16th Annual Featured Lecture in Cardiovascular Nursing: T. Garrett Rauch Memorial Lecture
Barbara Medoff-Cooper, Ph.D., R.N., F.A.A.N.
- 10:05 a.m. Presentation of the Outstanding Physician Scientist and Nurse Scientist Awards
David Goldberg, M.D.; Kathryn Dodds, M.S.N., C.R.N.P.-A.C.



Break • 10:15 – 11 a.m.
Poster Session #3

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

NURSING: SOMETIMES IT'S A ZEBRA! PRESENTATIONS OF CHALLENGING CASES THAT SURPRISED US!

Kathryn Dodds, M.S.N., C.R.N.P.-A.C.; Dawn Tucker, D.N.P., C.R.N.P.-A.C.; Denise Donaghue, M.S.N.; Karen McCandless, M.S.N., C.R.N.P.; Leigh Ann DiFusco, M.S.N., C.N.O.R., P.C.N.S.-B.C.; Sandy Staveski, Ph.D., R.N., C.P.N.P.-A.C.; Clare Kranz, M.S.N., C.P.N.P.-P.C.; Patricia Sieffert, M.S.N., A.R.N.P.; David Drajpuch, M.S.N., C.R.N.P.

EBSTEIN'S ANOMALY

- 11 a.m. Anatomy • *Paul Weinberg, M.D.*
- 11:20 a.m. Imaging • *Michael Brook, M.D.*
- 11:40 a.m. Pathophysiology, Clinical Impact and Decision Making • *Alan Friedman, M.D.*
- Noon Surgical Treatment • *Joseph Dearani, M.D.*
- 12:20 p.m. Short- and Long-term Outcomes • *Susan Schachtner, M.D.*
- 12:40 p.m. Faculty Panel: Q & A
- 1 p.m. Adjourn

COMMON CLINICAL QUESTIONS IN CONGENITAL AND PEDIATRIC HEART CARE II

- 11 a.m. How Do I Best Manage My Patient with Primary Pulmonary Hypertension? • *Rachel Hopper, M.D.*
- 11:20 a.m. How Do I Best Manage My Patient with Recurrent Coarctation of the Aorta? • *Lee Benson, M.D.*
- 11:40 a.m. How Do I Best Manage My Patient with PLE after Fontan Operation? • *David Goldberg, M.D.*
- Noon What Is the Best Surgical Strategy for the Patient with Corrected Transposition of the Great Arteries? • *Thomas L. Spray, M.D.*
- 12:20 p.m. What Is the Best Surgical Strategy for the Patient with D-Transposition of the Great Arteries, Ventricular Septal Defect and Pulmonary Stenosis? • *Victor Morell, M.D.*
- 12:40 p.m. Faculty panel: Q & A
- 1 p.m. Adjourn

THROMBOSIS AND ANTICOAGULATION IN CONGENITAL HEART DISEASE

- 11 a.m. Cardiac Catheterization Based Complications of Vascular Patency • *Andrew Glatz, M.D., M.S.C.E.*
- 11:20 a.m. Antithrombotic Therapy: The Spectrum of Current Treatment Options • *Therese Giglia, M.D.*
- 11:40 a.m. Management of Stroke in Congenital Heart Disease • *Daniel Licht, M.D.*
- Noon How Best to Anticoagulate after Fontan Operation • *Brian McCrindle, M.D.*
- 12:20 p.m. Moderated Panel: Case-Based Discussion • *Therese Giglia, M.D. (leader); Andrew Glatz, M.D., M.S.C.E.; Daniel Licht, M.D.; Brian McCrindle, M.D.*
- 1 p.m. Adjourn

LUNCH • 1 – 2 p.m.

1 – 2 p.m. Optional Lunch Roundtable: Case Discussions with the Experts

Roundtable 1

One or Two Ventricle Strategy: How Does One Choose?

Meryl Cohen, M.D. (leader); Erle H. Austin III, M.D.; Michael Brook, M.D.; Tal Geva, M.D.; Jonathan J. Rome, M.D.

Roundtable 2

Pacer Setting Workshop

Mitchell Cohen, M.D.; Maully Shah, M.B.B.S.

MODERATED PANEL OF EXPERTS • 2 – 3 p.m.

WHEN IS CARE FUTILE?

Panel: Roxanne Kirsch, M.D. (leader); Joshua Blinder, M.D.; Andrew Costarino, M.D.; John Costello, M.D., M.P.H.; Adrienne Kovacs, Ph.D.; Chitra Ravishankar, M.D.

Break • 3 – 3:15 p.m.

Plenary Session VII

OUTCOMES: THE RESULTS OF OUR EFFORTS ...

- 3:15 p.m. Pulmonary Atresia with Intact Ventricular Septum
Brian McCrindle, M.D.
- 3:30 p.m. Tetralogy of Fallot
Tal Geva, M.D.
- 3:45 p.m. Coarctation of the Aorta
David Nykanen, M.D.
- 4 p.m. D-Transposition of the Great Arteries
Meryl Cohen, M.D.
- 4:15 p.m. Atrioventricular Canal Defect
Alan Friedman, M.D.
- 4:30 p.m. Hypoplastic Left Heart Syndrome
Jack Rychik, M.D.
- 4:45 p.m. Faculty Panel: Q and A
- 5 p.m. Adjourn



Highlighted Poster Session: Wine and Wisdom
5 – 6 p.m.

6 p.m. QUIZ BOWL!

Host:

Matthew Gillespie, M.D.

**Test Your Knowledge
Against Experts in the Field!**

7 p.m. Adjourn



Concurrent Plenary Session VIII – A

Challenges and Dilemmas in Adult Congenital Heart Disease

- 8 a.m. The Lifetime Prevalence of CHD
Ariane Marelli, M.D., M.P.H.
- 8:20 a.m. Sexual Health and High Risk Behaviors: How to Counsel?
Adrienne Kovacs, Ph.D.
- 8:40 a.m. Perioperative Surgical and Interventional Management of the Adult with CHD
David Drajpuch, M.S.N., C.R.N.P.
- 9 a.m. Long-term Outcomes of the Mustard/Senning Operation for Transposition of the Great Arteries
Yuli Kim, M.D.
- 9:20 a.m. Interventional Cardiology for the Adult with CHD
Lee Benson, M.D.
- 9:40 a.m. Assessment and Management in the Adult with Tetralogy of Fallot: Life After Pulmonary Valve Replacement
Tal Geva, M.D.
- 10 a.m. Resource Allocation for Anesthesia and Perioperative Care of the Adult with Congenital Heart Disease
James Steven, M.D.
- 10:15 a.m. **BREAK**
- 10:30 a.m. Transcatheter Aortic Valve Replacement and the Approach to Aortic Valve Disease: The Adult Cardiothoracic Surgeon's Perspective
Joseph Bavaria, M.D.
- 10:50 a.m. Atrioventricular Valve Surgery in the Adult with CHD
Joseph Dearani, M.D.
- 11:10 a.m. Heart Failure in the Adult with a Fontan Circulation
Wendy Book, M.D.
- 11:30 a.m. Moderated Panel: Challenges in the Care of the Adult with CHD: Case-Based Discussion
Stephanie Fuller, M.D. (leader); Yuli Kim, M.D. (leader); Joseph Bavaria, M.D.; Wendy Book, M.D.; Joseph Dearani, M.D.; Tal Geva, M.D.; Adrienne Kovacs, Ph.D.; Ariane Marelli, M.D., M.P.H.; David Drajpuch, M.S.N., C.R.N.P.
- 12:15 p.m. Adjourn



Concurrent Plenary Session VIII – B

Concepts in Fetal Cardiovascular Care

- 8 a.m. Establishing Delivery Services and Perinatal Care for Birth Defects at a Children's Hospital: The CHOP Special Delivery Unit
Lori Howell, R.N., M.S.
- 8:30 a.m. Optimal Timing for Delivery of a Fetus with CHD: Is It a Balancing Act?
John Costello, M.D., M.P.H.
- 8:50 a.m. Geography and Its Influence on Outcome Following Prenatal Diagnosis of CHD
Shaine Morris, M.D., M.P.H.
- 9:10 a.m. Style of Imaging: A Systematic, High-Quality Approach to Fetal Echocardiography
Zhiyun Tian, M.D.
- 9:40 a.m. Advanced Doppler Fetal Echocardiography: Tools of the Trade
Anita Szwast, M.D.
- 10 a.m. Q & A
Faculty Panel
- 10:15 a.m. **Break**
- 10:30 a.m. Parental Psychodynamics in Prenatal Heart Disease
Denise Donaghue, M.S.N.
- 10:50 a.m. Fetal Brain Development in CHD: How Is It Different From Normal and Can It Be Modified?
Daniel Licht, M.D.
- 11:10 a.m. Role of Fetal Cardiovascular Imaging in Extra-cardiac Anomalies
Jack Rychik, M.D.
- 11:30 a.m. Moderated Panel: Challenges in the Care of the Fetus with Cardiovascular Disease: Case-Based Discussion
Jack Rychik, M.D. (leader); John Costello, M.D., M.P.H.; Denise Donaghue, M.S.N.; Lori Howell, R.N., M.S.; Daniel Licht, M.D.; Shaine Morris, M.D., M.P.H.; Anita Szwast, M.D.; Zhiyun Tian, M.D.
- 12:15 p.m. Adjourn



Faculty

Organizing Committee

Jack Rychik, M.D., Course Director
Lawrence Barnes, M.B.A., Philadelphia
Geoffrey L. Bird, M.D., M.S.I.S., Philadelphia
Robert Campbell, M.D., Atlanta
Meryl Cohen, M.D., Philadelphia
Mitchell Cohen, M.D., Phoenix
Andrew Costarino, M.D., Philadelphia
William M. DeCampi, M.D., Ph.D., Orlando
Kathryn Dodds, M.S.N., C.R.N.P.-A.C., Philadelphia
Craig Fleishman, M.D., Orlando
Alan Friedman, M.D., New Haven
Stephanie Fuller, M.D., Philadelphia
J. William Gaynor, M.D., Philadelphia
Marie Gleason, M.D., Philadelphia

David Goldberg, M.D., Philadelphia
Maryanne Kessel, R.N., M.B.A., Milwaukee
Yuli Kim, M.D., Philadelphia
David Nykanen, M.D., Orlando
Daniel Penny, M.D., Ph.D., Houston
Alexis Perri, M.S.N., C.R.N.P., Philadelphia
Jonathan J. Rome, M.D., Philadelphia
Tami Rosenthal, M.B.A., C.C.P., Philadelphia
Robert Shaddy, M.D., Philadelphia
Maully Shah, M.B.B.S., Philadelphia
Girish Shirali, M.B.B.S., Kansas City
Thomas L. Spray, M.D., Philadelphia
James Steven, M.D., Philadelphia
Suzanne A. Worthington, Orlando

Adult Congenital Heart

Wendy Book, M.D.
Emory University School of Medicine

David Drappuch, M.S.N., C.R.N.P.
The Children's Hospital of Philadelphia

Yuli Kim, M.D.
The Children's Hospital of Philadelphia

Adrienne Kovacs, Ph.D.
Oregon Health and Science University

Ariane Marelli, M.D., M.P.H.
McGill University Health Center

Administration

Lawrence Barnes, M.B.A.
The Children's Hospital of Philadelphia

Steve Barsh
Chief Innovation Officer
DreamIt Health

Madeline Bell
The Children's Hospital of Philadelphia

Evan Fieldston, M.D.
The Children's Hospital of Philadelphia

Maryanne Kessel, R.N., M.B.A.
Children's Hospital of Wisconsin

Arthur Klein, M.D.
Mount Sinai Health System

Mark Schwartz, M.B.A.
The Children's Hospital of Philadelphia

Anesthesia and Intensive Care

Geoffrey L. Bird, M.D., M.S.I.S.
The Children's Hospital of Philadelphia

Joshua Blinder, M.D.
The Children's Hospital of Philadelphia

Andrew Costarino, M.D.
The Children's Hospital of Philadelphia

John Costello, M.D., M.P.H.
Lurie Children's Hospital of Chicago

Roxanne Kirsch, M.D.
The Children's Hospital of Philadelphia

C. Dean Kurth, M.D.
Cincinnati Children's Medical Center

Bradley S. Marino, M.D., M.P.P., M.S.C.E.
Lurie Children's Hospital of Chicago

Francis McGowan, M.D.
The Children's Hospital of Philadelphia

Hamish Munro, M.D.
Arnold Palmer Hospital

Susan Nicolson, M.D.
The Children's Hospital of Philadelphia

James Steven, M.D.
The Children's Hospital of Philadelphia

Cardiology

H. Scott Baldwin, M.D.
Vanderbilt Children's Hospital

Stephen Daniels, M.D., Ph.D.
Children's Hospital Colorado

Yoav Dori, M.D.
The Children's Hospital of Philadelphia

Alan Friedman, M.D.
Yale New Haven Hospital

Therese Giglia, M.D.
The Children's Hospital of Philadelphia

Eric Graham, M.D.
Medical University of South Carolina

Rachel Hopper, M.D.
The Children's Hospital of Philadelphia

Robert Levy, M.D.
The Children's Hospital of Philadelphia

Brian McCrindle, M.D.
Hospital for Sick Children Toronto

Jane Newburger, M.D.
Boston Children's Hospital

Sara Pasquali, M.D., M.H.S.
C.S. Mott Children's Hospital

Daniel Penny, M.D., Ph.D.
Texas Children's Hospital

Susan Schachtner, M.D.
The Children's Hospital of Philadelphia

Paul Stephens, M.D.
The Children's Hospital of Philadelphia

Paul Weinberg, M.D.
The Children's Hospital of Philadelphia

Cardiac Catheterization

Lee Benson, M.D.
Hospital for Sick Children Toronto

Matthew Gillespie, M.D.
The Children's Hospital of Philadelphia

Stephen Kaine, M.D.
Children's Mercy Hospitals and Clinics

Audrey Marshall, M.D.
Boston Children's Hospital

David Nykanen, M.D.
Arnold Palmer Hospital

Jonathan J. Rome, M.D.
The Children's Hospital of Philadelphia

Matthew Schwartz, M.D.
Arnold Palmer Hospital

Electrophysiology

Mitchell Cohen, M.D.
Phoenix Children's Hospital

Larry Rhodes, M.D.
West Virginia University

Maully Shah, M.B.B.S.
The Children's Hospital of Philadelphia

Fetal Cardiology

Lori Howell, R.N., M.S.
The Children's Hospital of Philadelphia

Shaine Morris, M.D., M.P.H.
Texas Children's Hospital

Jack Rychik, M.D.
The Children's Hospital of Philadelphia

Anita Szwast, M.D.
The Children's Hospital of Philadelphia

Kent Thornburg, Ph.D.
Oregon Health and Science University

Zhiyun Tian, M.D.
The Children's Hospital of Philadelphia

Genetics

Wendy Chung, M.D., Ph.D.
Columbia University Medical Center

Joel Dudley, Ph.D.
Mount Sinai School of Medicine

Bruce Gelb, M.D.
Mount Sinai School of Medicine

Elizabeth Goldmuntz, M.D.
The Children's Hospital of Philadelphia

Ian Krantz, M.D.
The Children's Hospital of Philadelphia

Heart Failure

John L. Jefferies, M.D.
Cincinnati Children's Medical Center

Matthew O'Connor, M.D.
The Children's Hospital of Philadelphia

Stephen Paridon, M.D.
The Children's Hospital of Philadelphia

Chitra Ravishankar, M.D.
The Children's Hospital of Philadelphia

Joseph Rossano, M.D.
The Children's Hospital of Philadelphia

Robert Shaddy, M.D.
The Children's Hospital of Philadelphia

Imaging

Michael Brook, M.D.
UCSF Benioff Children's Hospital

Meryl Cohen, M.D.
The Children's Hospital of Philadelphia

Craig Fleishman, M.D.
Arnold Palmer Hospital

Mark Fogel, M.D.
The Children's Hospital of Philadelphia

Tal Geva, M.D.
Boston Children's Hospital

David Goldberg, M.D.
The Children's Hospital of Philadelphia

Shobha Natarajan, M.D.
The Children's Hospital of Philadelphia

Craig Sable, M.D.
Children's National Medical Center

Girish Shirali, M.B.B.S.
Children's Mercy Kansas City

Lloyd Tani, M.D.
Primary Children's Hospital

Nursing

Leigh Ann DiFusco, M.S.N., C.N.O.R., P.C.N.S.-B.C.
The Children's Hospital of Philadelphia

Kathryn Dodds, M.S.N., C.R.N.P.-A.C.
The Children's Hospital of Philadelphia

Denise Donaghue, M.S.N.
The Children's Hospital of Philadelphia

David Drappuch, M.S.N., C.R.N.P.
The Children's Hospital of Philadelphia

Karen Iacono, M.S.N., A.R.N.P.-B.C.
Arnold Palmer Hospital

Clare Kranz, M.S.N., C.P.N.P.-P.C.
Orlando Health

Sharon Mawa, M.S.N., P.C.N.S.-B.C.
Arnold Palmer Hospital

Karen McCandless, M.S.N., C.R.N.P.
The Children's Hospital of Philadelphia

Barbara Medoff-Cooper, Ph.D., R.N., F.A.A.N.
The Children's Hospital of Philadelphia

Heather Meldrum, R.N., B.S.N., C.C.R.N.
The Children's Hospital of Philadelphia

Kathleen Mussatto, R.N., Ph.D.
Children's Hospital of Wisconsin

Alexis Perri, M.S.N., C.R.N.P.
The Children's Hospital of Philadelphia

Patricia Sieffert, M.S.N., A.R.N.P.
Arnold Palmer Hospital

Sandy Staveski, Ph.D., R.N., C.P.N.P.-A.C.
Cincinnati Children's Medical Center

Dawn Tucker, D.N.P., C.P.N.P.-A.C.
Children's Mercy Kansas City

Other

Paul Cardall
Salt Lake City, Utah

Cheryl Dickens
Los Angeles, Calif.

Dennis Durbin, M.D.
The Children's Hospital of Philadelphia

Daniel Licht, M.D.
The Children's Hospital of Philadelphia

Richard Seidel
Naples, Florida

Perfusion

Bharat Datt, C.C.P., C.P.C., F.P.P.
Arnold Palmer Hospital

Kevin Charrette, C.C.P.
Seattle Children's Hospital

Richard Melchior, C.C.P., M.P.S., F.P.P.
The Children's Hospital of Philadelphia

Gary Plancher, C.C.P.
Arnold Palmer Hospital

Tami Rosenthal, M.B.A., C.C.P.
The Children's Hospital of Philadelphia

Surgery

N. Scott Adzick, M.D.
The Children's Hospital of Philadelphia

Erle H. Austin III, M.D.
Kosair Children's Hospital

Joseph Bavaria, M.D.
University of Pennsylvania

Joseph Dearani, M.D.
Mayo Clinic

William M. DeCampi, M.D., Ph.D.
Arnold Palmer Hospital

Charles Fraser, M.D.
Texas Children's Hospital

Stephanie Fuller, M.D.
The Children's Hospital of Philadelphia

J. William Gaynor, M.D.
The Children's Hospital of Philadelphia

Victor Morrell, M.D.
Children's Hospital of Pittsburgh

James O'Brien, M.D.
Children's Mercy Kansas City

Mark Rodefeld, M.D.
Indiana University
Peyton Manning Children's Hospital

Thomas L. Spray, M.D.
The Children's Hospital of Philadelphia

Victor Tsang, M.D.
Great Ormond Street Children's Hospital



Save
the Date

Cardiology
♥ 2017

Feb. 22 – 28, 2017

**20th Annual Update on
Pediatric and Congenital
Cardiovascular Disease**

**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.

For more information:
www.chop.edu/cardiology2017
mannices@email.chop.edu
215-590-5263



 The Children's Hospital
of Philadelphia®



CARDIAC CENTER



19th Annual Update on Pediatric and Congenital Cardiovascular Disease

February 24 – 28, 2016 • Universal Orlando®, Orlando, Fla.

Name _____

Title/Degree _____

Hospital/Institute/Company _____

Specialty _____

Address _____

City _____ State _____ ZIP _____ Country _____

Phone _____ Fax _____

Email _____

Registration Fees

Full Course • Wednesday, 4 p.m. to Sunday, 1 p.m.

☐ Physicians \$950

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

Optional Limited Registration Preconference Symposium • Wednesday, Feb. 24 *(Please select only one.)*

☐ #1 Research Training in Pediatric and Congenital Cardiovascular Disease \$150

☐ #2 Challenges and Opportunities in Healthcare Administration for Children with Heart Disease \$150

☐ #3 Imaging for Pediatric and Congenital Cardiovascular Disease \$150

☐ #4 The Essentials of CHD and Postoperative Management: A Comprehensive Review for Nursing and Front-line Providers \$150

☐ Heart Run • Saturday, Feb. 27, 6:15 a.m. *(limited to the first 200 registrants)* \$25

Total _____

Blue Man Group at Universal Orlando – Friday, Feb. 26, 8 – 10 p.m.

All conference registrants receive one complimentary ticket. A limited number of additional tickets are available for purchase for guests of conference attendees. All tickets will be distributed at on-site registration, Feb. 24 and 25, 2016.

☐ Additional ticket(s) for ages 10 and up \$50 Number of tickets _____

☐ Additional ticket(s) for ages 3 to 9 \$25 Number of tickets _____

Total _____

Method of Payment

☐ Personal Check ☐ Institutional Check *(Make checks payable to The Children's Hospital of Philadelphia.)*

☐ VISA ☐ MasterCard ☐ American Express ☐ Discover

Credit Card # _____ Exp. Date ____/____/____

To register online with a credit card, go to www.chop.edu/cardiology2016.

Please mail the completed registration form and check directly to:

Ms. Micah Holliday, Continuing Medical Education Department • The Children's Hospital of Philadelphia
34th Street and Civic Center Boulevard • Philadelphia, Pa. 19104-4399 • Phone: 215-590-5263 • Fax: 215-590-4342

Please note: Reservations for the Loews Royal Pacific Resort must be made by contacting the resort directly at 1-866-360-7395. The special conference room rate is \$229 per night. Mention the CHOP Pediatric Cardiology Conference to receive the discounted rate.

Learn more at www.chop.edu/cardiology2016.

Continuing Medical Education Department

 The Children's Hospital of Philadelphia®
Hope lives here.®

34th Street and Civic Center Boulevard
Philadelphia, PA 19104-4399

ADDRESS SERVICE REQUESTED

Nonprofit Org.

U.S. Postage

PAID

Philadelphia, PA
Permit No. 2733

Cardiology 2016

19th Annual Update on
Pediatric and Congenital Cardiovascular Disease

Bringing Science to Clinical Practice

February 24 – 28, 2016

Loews Royal Pacific Resort at Universal Orlando® • Orlando, Fla.

 The Children's Hospital of Philadelphia®

 CARDIAC CENTER

©2015 The Children's Hospital of Philadelphia, All Rights Reserved • 15CAR0051/GM/09-15



chop.edu/cardiology2016



twitter.com/heartcare4kids



facebook.com/TheCardiacCenteratCHOP