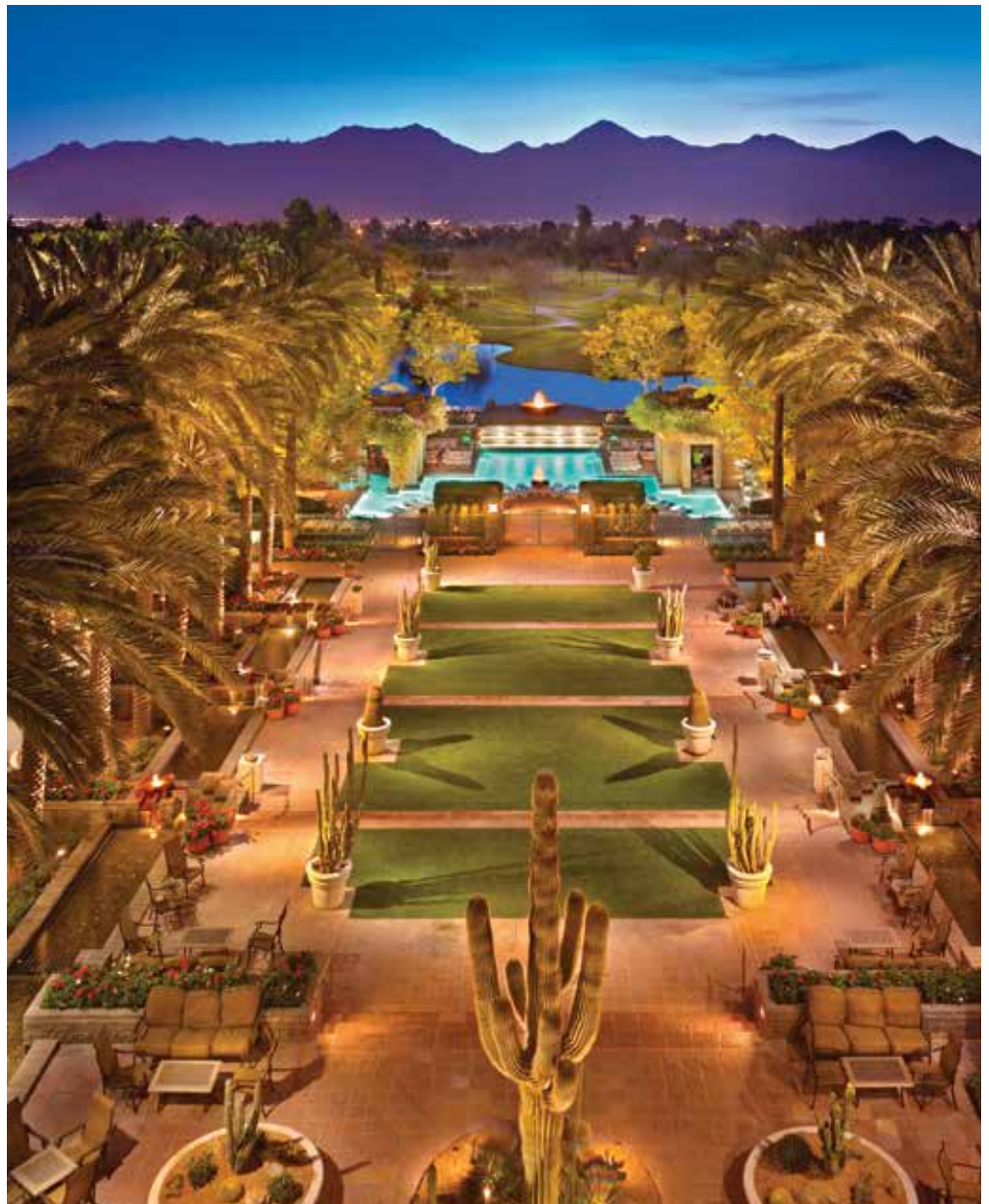


Cardiology 2015

A comprehensive post-graduate course for pediatric cardiologists, neonatologists, surgeons, nurses, intensivists, anesthesiologists, sonographers, perfusionists and all those involved in the care of pediatric and congenital cardiovascular disease from fetus to adult.



18th Annual Update on Pediatric and Congenital Cardiovascular Disease

Challenges and Dilemmas

February 11 – 15, 2015

Hyatt Regency Scottsdale Resort and Spa at Gainey Ranch • Scottsdale, Ariz.

 The Children's Hospital
of Philadelphia®



CARDIAC CENTER



Welcome

Today's practice of pediatric and congenital cardiovascular medicine spans a wide spectrum of care from the fetus through adulthood. With so many different conditions manifesting at various stages of life, many challenges and dilemmas exist in our understanding of the mechanisms of disease, as well as in our capacity for effective management and treatment of these conditions.

With this approach in mind, we present the 18th Annual Update on Pediatric and Congenital Cardiovascular Disease. Our theme this year is "Challenges and Dilemmas." 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 necessary for comprehensive care of the unborn, neonates, children and young adults with cardiovascular disease.

Course Highlights 2015

- Updates on the latest information and innovations in pediatric and congenital cardiovascular science, clinical care and healthcare delivery from visionary experts in the field
- 2015 focus on "challenges and dilemmas" in the care and management of pediatric and congenital cardiovascular disease
- Featured opening plenary session lectures by outstanding speakers on highlighted topics
- Comprehensive plenary sessions on the borderline small left ventricle, heart failure in the young, caring for the patient with single ventricle, neurocognitive impairment, ethical and social dilemmas in congenital heart care, and the adult with congenital heart disease
- Breakout sessions on a variety of topics for every sub-specialty
- Expert panel discussions on 1) common congenital anomalies, 2) pulmonary valve replacement in repaired tetralogy of Fallot, and 3) thrombosis in pediatric and congenital cardiovascular disease

- Preconference, full-day intensive symposia on 1) fetal cardiovascular disease, and 2) mechanical circulatory support in pediatric and congenital cardiovascular care
- 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

Cardiology 2015 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!



Course Objectives 2015

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

- Describe the challenges and dilemmas as well as the latest innovations in the science, clinical management and healthcare delivery for the patient with pediatric and congenital cardiovascular disease
- Discuss the pathophysiology of congenital heart disease before birth, the methods for fetal diagnosis and the potential capacity to manipulate prenatal variables leading to improved outcomes
- Manage heart failure in the young patient in the current era of mechanical support
- Review the impact of ethics and social media on care of the patient with pediatric and congenital heart disease
- Describe current challenges, dilemmas and innovative strategies for management of the patient with single ventricle type of congenital heart disease
- Identify key factors of importance in directing management of the infant born with a borderline small left ventricle and review unique management strategies for recruitment of the left ventricle
- Review the causes and diagnostic assessment of neurocognitive impairment in children and adults with congenital heart disease
- Identify the risks, challenges and therapeutic options that exist in the management of thrombosis in congenital heart disease
- Discuss the principles of when, why and how a pulmonary valve is necessary after repair of tetralogy of Fallot
- Describe the factors that influence decision making in common but controversial cardiac anomalies such as small ventricular septal defect, sub-aortic membrane and aortic insufficiency
- Identify key challenges and manage the adult patient with congenital heart disease

Call for Abstracts

Timeline

Abstract Submission Deadline:	Friday, Oct. 31, 2014 – Noon	Poster Presentations:	Thursday, Feb. 12 through
Notification of Acceptance:	Monday, Nov. 10, 2014		Sunday, Feb. 15, 2015
Oral Presentations:	Thursday, Feb. 12 and Friday, Feb. 13, 2015	Award Presentations:	Saturday, Feb. 14, 2015

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 2015, in the *World Journal for Pediatric and Congenital Heart Surgery* (visit <http://pch.sagepub.com>).

- On Thursday, Feb. 12 and Friday, Feb. 13, 2015, the top six abstracts will be presented as eight-minute oral presentations and the top six nursing abstracts will be presented in a moderated poster session. The remaining accepted abstracts will be presented in one of three poster sessions during the meeting
- The international course faculty will select the recipients of the 11th Annual Outstanding Physician Scientist Award and the Ninth Annual Outstanding Nurse Scientist Award. The two award winners will each be recognized at the featured plenary session on Feb. 14, 2015, and will receive a complimentary registration for Cardiology 2016 and a \$500 travel grant.

Electronic submission only. See www.chop.edu/cardiology2015 for details. Abstract acceptance does not include course registration fee or hotel accommodations.

Registration

The conference will be held Wednesday, Feb. 11 through Sunday, Feb. 15, 2015, at the Hyatt Regency Scottsdale Resort and Spa at Gainey Ranch, Scottsdale, Ariz. Registration will take place Wednesday, Feb. 11, from 6:30 a.m. to 6 p.m. and Thursday, Feb. 12, from 6:30 a.m. to 6 p.m.

Course Fees

The registration fee for the five-day conference is \$895 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 gala reception.

Physicians	\$895
Nurses, Medical Students, Residents, Fellows and Other Healthcare Professionals	\$595

Optional Preconference Seminars

#1: The Fetus with Heart Disease	\$125
#2: Mechanical Circulatory Support in Pediatric and Congenital Heart Disease	\$125
#3: The Essentials of Neonatal CHD: A Primer for Nurses and Frontline Providers	\$125

Accreditation

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

The Children’s Hospital of Philadelphia designates this live activity for a maximum of 37.5 *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. 11, 2015

- Optional Preconference Seminars – 8 a.m. to 3:30 p.m.
- #1 The Fetus with Heart Disease = 6.0
- #2 Mechanical Circulatory Support in Pediatric and
Congenital Heart Disease = 6.0

Main Conference: Wednesday, Feb. 11 (p.m.) to Sunday, Feb. 15, 2015
Total *AMA PRA Category 1 credits*[™] = 31.5

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. 2, 2015. Refunds will be issued for the amount of registration less a \$75 service charge.

Hotel Information

A block of rooms has been reserved at the Hyatt Regency Scottsdale Resort and Spa at Gainey Ranch. The group rate is \$299 single or double occupancy plus a 13.9 percent room tax. Participants must reserve their own hotel accommodations by calling the hotel at 1-888-421-1442. For the reduced conference rate, mention the CHOP Pediatric Cardiology Conference when making the reservation. The conference rate extends from Feb. 9 – 17, 2015, and will be available until Tuesday, Jan. 20, 2015. Reservations made after Jan. 20 will be accepted on space and rate availability.

Ground Transportation

Shuttle service from Phoenix Sky Harbor Airport to the Hyatt Regency Scottsdale Resort and Spa at Gainey Ranch is available through SuperShuttle Shared-ride Van Service. Round-trip tickets cost approximately \$48.

Reservations are not necessary for the SuperShuttle Van Service. Reservations are only needed if you require a wheelchair van. For wheelchair van reservations, please call 602-244-9000 or 800-258-3826 at least 24 hours in advance.

To access the SuperShuttle Van Service:

- Claim your baggage.
- Proceed outside Baggage Claim to the sign marked “Shared-ride Van Service.”
- A uniformed guest service representative will arrange SuperShuttle service to the hotel.



OPTIONAL PRECONFERENCE #1

The Fetus with Heart Disease

8 a.m.	Primer on Cardiac Development: What the Clinician Fetal Cardiologist Needs to Know <i>Karl Degenhardt, M.D., Ph.D.</i>	11:30 a.m.	Key Points in Prenatal Imaging: TOF, TGA and Truncus Arteriosus <i>Mary T. Donofrio, M.D.</i>
8:30 a.m.	Genetics and CHD: What the Clinician Fetal Cardiologist Needs to Know <i>Elizabeth Goldmuntz, M.D.</i>	Noon	Lunch
9 a.m.	The Role of the Nurse Coordinator in Caring for the Fetus with CHD and Its Family <i>Denise Donaghue, R.N., M.S.N.</i>	1 p.m.	Key Points in Prenatal Imaging: The Univentricular Heart <i>Christopher Lindblade, M.D.</i>
9:20 a.m.	Community-based Improvement in Prenatal Detection of Congenital Heart Disease: Challenges and Progress <i>William N. Evans, M.D.</i>	1:30 p.m.	CMR and Fetal Cardiovascular Disease: Potential and Promise <i>Mark Fogel, M.D.</i>
9:40 a.m.	Technical Elements of the Fetal Echo Examination <i>Zhiyun Tian, M.D.</i>	1:50 p.m.	Counseling and Support: The Checklist Approach to Communicating the Presence of Prenatal Congenital Heart Disease <i>Tara M. Swanson, M.D.</i>
10 a.m.	Break	2:10 p.m.	Delivery Room Management of the Newborn with Prenatal Diagnosis of CHD <i>David Munson, M.D.</i>
10:30 a.m.	Doppler Derived Cardiovascular Flow Patterns in the Normal Fetus and in the Fetus with CHD <i>Michael D. Puchalski, M.D.</i>	2:30 p.m.	My Most Interesting Case of the Year ... <i>Faculty</i>
11 a.m.	Fetal Arrhythmias: Fast and Slow <i>Bettina Cuneo, M.D.</i>	3:30 p.m.	Adjourn

OPTIONAL PRECONFERENCE #2

Mechanical Circulatory Support in Pediatric and Congenital Heart Disease

8 a.m.	Decision Making and Indications: When Is It Time to Consider Mechanical Circulatory Support for the Pediatric Patient? <i>Joseph Rossano, M.D.</i>	11:30 a.m.	Options for Mechanical Circulatory Support in the Patient with Single Ventricle <i>J. William Gaynor, M.D.</i>
8:20 a.m.	Device Overview: The Berlin Heart Excor <i>James St. Louis, M.D.</i>	11:50 a.m.	Q & A <i>Faculty</i>
8:40 a.m.	Device Overview: The HeartMate II LVAD <i>Charles D. Fraser Jr., M.D.</i>	Noon	Lunch
9 a.m.	Device Overview: The HeartWare LVAD <i>Christopher E. Mascio, M.D.</i>	1 p.m.	Mechanical Circulatory Support Simulation: The Cincinnati Experience <i>Angela Lorts, M.D.</i>
9:20 a.m.	Device Overview: The Syncardia Total Artificial Heart <i>David Morales, M.D.</i>	1:30 p.m.	The PUMPKin Trial: What Is It and What Do We Expect to Learn? <i>William T. Mahle, M.D.</i>
9:40 a.m.	Q & A <i>Faculty</i>	1:50 p.m.	Facilitating Acceptance and Child Adaptation to Mechanical Circulatory Support <i>Meredith McDonough, M.S., C.C.L.S. IV</i>
10 a.m.	Break	2:10 p.m.	Take It Home: Outpatient Mechanical Circulatory Support Care and Management <i>Kelley Miller, M.S.N., C.R.N.P.</i>
10:30 a.m.	What Do I Do Now?: Troubleshooting for Patients on Mechanical Circulatory Support <i>Tami Rosenthal, M.B.A., C.C.P., L.P., F.P.P.</i>	2:30 p.m.	Clinical Scenarios and Open Discussion: Challenges and Dilemmas in Real-life Cases Involving Mechanical Circulatory Support <i>Faculty Panel</i>
10:50 a.m.	Extracorporeal Support Management in the Cardiac ICU <i>Ravi Thiagarajan, M.D., M.P.H.</i>	3:30 p.m.	Adjourn
11:10 a.m.	Anticoagulation and Mechanical Circulatory Support <i>Leslie Raffini, M.D.</i>		

OPTIONAL PRECONFERENCE #3

The Essentials of Neonatal CHD: A Primer for Nurses and Frontline Providers

- 7 a.m. **What Do We Know About the Genetics of CHD?**
Elizabeth Goldmuntz, M.D.
- 7:15 a.m. **Segmental Anatomy of the “Normal Heart”**
Paul Weinberg, M.D.
- 7:30 a.m. **Screening, Diagnosis and Preoperative Assessments**
Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.
- 7:45 a.m. **Open Heart Surgery, CPB, Circulatory Arrest and Other Mysteries of the OR**
Christopher E. Mascio, M.D.
- 8 a.m. **Early Postoperative Management**
Roxanne Kirsch, M.D.
- 8:15 a.m. **The Brain and Neonatal CHD**
Daniel Licht, M.D.
- 8:30 a.m. **Break**
- 8:45 a.m. **ECHO: Effusions, Function, Obstruction, Regurgitation, Thrombus and Holes**
David Goldberg, M.D.
- 9 a.m. **What Can the Chest X-ray Show You?**
Geoffrey L. Bird, M.D., M.S.I.S.
- 9:15 a.m. **How to Decipher Cardiac Catheterization Data**
Matthew Gillespie, M.D.
- 9:30 a.m. **Postoperative Arrhythmias: SVT, JET, Heart Block, VT**
Michelle Osborn, R.N., M.S.N.
- 9:45 a.m. **“Tools” to Monitor Cardiac Output or We Have a Problem: ECMO and Mechanical Support in the Neonate with CHD**
Maryam Naim, M.D.
- 10 a.m. **Break**

Heart Defects: Anatomy and Care

- 10:10 a.m. **Tetralogy of Fallot**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – John Nigro, M.D.
Postoperative Care and Outcomes – Dawn Tucker, M.S.N., C.P.N.P.-A.C.
- 10:30 a.m. **Truncus Arteriosus**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – John Nigro, M.D.
Postoperative Care and Outcomes – Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.
- 10:50 a.m. **Interrupted Aortic Arch**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – James E. O'Brien Jr., M.D.
Postoperative Care and Outcomes – Kristen Sullivan, M.S.N., C.P.N.P.
- 11:10 a.m. **Complete Common Atrioventricular Canal Defect**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – James E. O'Brien Jr., M.D.
Postoperative Care and Outcomes – Dawn Tucker, M.S.N., C.P.N.P.-A.C.
- 11:30 a.m. **Transposition of the Great Arteries**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – John Nigro, M.D.
Postoperative Care and Outcomes – Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.

- 11:50 a.m. **Total Anomalous Pulmonary Venous Return**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – John Nigro, M.D.
Postoperative Care and Outcomes – Courtney Howell, M.S.N., C.P.N.P.-A.C./P.C.
- 12:10 p.m. **Lunch**
- 12:30 p.m. **Tricuspid Atresia**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – James E. O'Brien Jr., M.D.
Postoperative Care and Outcomes – Kristen Sullivan, M.S.N., C.P.N.P.
- 12:50 p.m. **Pulmonary Atresia/IVS**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – James E. O'Brien Jr., M.D.
Postoperative Care and Outcomes – Courtney Howell, M.S.N., C.P.N.P.-A.C./P.C.
- 1:10 p.m. **Critical Coarctation of the Aorta**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – James E. O'Brien Jr., M.D.
Postoperative Care and Outcomes – Dawn Tucker, M.S.N., C.P.N.P.-A.C.
- 1:30 p.m. **HLHS**
Anatomy/Morphology – Paul Weinberg, M.D.
Surgery – Christopher E. Mascio, M.D.
Postoperative Care and Outcomes – Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.
- 1:50 p.m. **Break**
- 2 p.m. **This Is a “Risky” Group of Patients**
Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.
- 2:15 p.m. **Discharge Planning and Home Monitoring**
Courtney Howell, M.S.N., C.P.N.P.-A.C./P.C.
Jennifer Shaffer, C.R.N.P.
- 2:30 p.m. **Neurocardiac Follow-up**
Kathleen Mussatto, Ph.D., R.N.
- 2:45 p.m. **Q & A**
- 3:30 p.m. **Adjourn**



Wednesday, Feb. 11

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

Challenges and Dilemmas

- 4 p.m. **Opening Remarks**
Jack Rychik, M.D.
- 4:05 p.m. **Incorporating the Genetics Revolution into the Framework of Care for Congenital Heart Disease**
Elizabeth Goldmuntz, M.D.
- 4:30 p.m. **The Challenge of the Fetus as a Patient: Can We Optimize Outcomes for Congenital Anomalies if We Begin Care Before Birth?**
Jack Rychik, M.D.
- 4:50 p.m. **Which Comes First: Overeating or Obesity?**
David S. Ludwig, M.D., Ph.D.
- 5:20 p.m. **Historical Challenges in Congenital Heart Surgery and How We Have Overcome: Do We Have Models for the Future?**
Thomas L. Spray, M.D.
- 5:50 p.m. **Is the Era of Shooting for the Moon Over?**
Andrew Redington, M.D.
- 6:20 p.m. **Challenges of the HLHS Journey: Perspective from a Surgeon**
Marshall Jacobs, M.D.
- 6:45 p.m. **Challenges of the HLHS Journey: Perspective from a Patient**
Meghan Roswick
- 7 p.m. **Adjourn**

Dinner on Your Own

Thursday, Feb. 12

Plenary Session II

Heart Failure in the Young

- 8 a.m. **Epidemiology and Cost of Heart Failure in Children**
Joseph Rossano, M.D.
- 8:15 a.m. **Medical Management of Heart Failure in the Young: State-of-the-Art 2015**
Paul F. Kantor, M.B.B.Ch., D.C.H., F.R.C.P.(C)
- 8:30 a.m. **Biomarkers and Pediatric Heart Failure: Is There Value?**
Kimberly Y. Lin, M.D.
- 8:45 a.m. **The Role of Mechanical Circulatory Support for Pediatric Heart Failure**
David Morales, M.D.
- 9 a.m. **The Evolving Role of Heart Transplantation in Pediatric Heart Failure**
Steven A. Webber, M.B.Ch.B., M.R.C.P.
- 9:15 a.m. **Pediatric Heart Failure: Why the Nurse Is So Important!**
Kelley Miller, M.S.N., C.R.N.P.
- 9:30 a.m. **Q & A**
Faculty
- 10 a.m. **Adjourn**

Break/Visit the Exhibits • 10 – 11 a.m.

Poster Session #1

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

CHALLENGES AND DILEMMAS IN PEDIATRIC CARDIAC NURSING

- 11 a.m. Nursing Challenges in a Cardiac Center: Staffing, Retention and Communicating Change • *Linda Goss, M.S.N.*
- 11:15 a.m. VAD on the Floor and Going Home: Ready Staff and Family • *Ashley Patton, B.S.N., R.N.*
- 11:30 a.m. Where Should the Fetus with CHD Deliver: Algorithms for Decision Making • *Denise Donaghue, R.N., M.S.N.*
- 11:45 a.m. Challenges and Barriers in Healthcare Innovation and Program Development • *Stephanie Esparza, D.N.P., C.P.N.P.-P.C.*
- Noon Building a Cardiac Research Program • *Kathleen Mussatto, Ph.D., R.N.*
- 12:15 p.m. Managing the Adult with CHD in the Pediatric Hospital • *Lynda Tobin, M.S.N., C.R.N.P.*
- 12:30 p.m. Why Is Transition to Adult Care So Hard? • *Philip Moons, Ph.D., R.N.*
- 12:45 p.m. APNs as Frontline Providers in the ICU • *Dawn Tucker, M.S.N., C.P.N.P.-A.C.*
- 1 p.m. Adjourn

PERFUSION UPDATE 2015

- 11 a.m. Steroid Use for Cardiopulmonary Bypass: More Harm Than Good? • *Molly Dreher, C.C.P., L.P.*
- 11:20 a.m. Strategies for Implementing and Managing Multiple Mechanical Assist Devices at One Center • *Tami Rosenthal, M.B.A., C.C.P., L.P., F.P.P.*
- 11:40 a.m. ECMO Support: Where We Are Now and Where We Are Heading • *Daniel Velez, M.D.*
- Noon Bloodless Cardiopulmonary Bypass • *Dan Gomez, C.C.P., F.P.P.*
- 12:20 p.m. ECMO/VAD Support: Case Presentation • *Roxanne Kirsch, M.D.*
- 12:40 p.m. Q & A • *Faculty*
- 1 p.m. Adjourn

HIGHLIGHTED ANOMALY: CORONARY ANOMALIES – THE GREAT DEBATES

- 11 a.m. Coronary Artery Anomalies: Variability and Significance • *Julie Brothers, M.D.*
- 11:20 a.m. Characterizing and Imaging Coronary Artery Anomalies • *Matthew Harris, M.D.*
- 11:40 a.m. Oxford Style Debate: Clinical Decision Making in Coronary Artery Anomalies
Team A: Christopher Caldarone, M.D.; Welton Gersony, M.D.
Team B: Marshall Jacobs, M.D.; Silvana Molossi, M.D., Ph.D.
- 1 p.m. Adjourn

CHALLENGES AND DILEMMAS IN CARDIAC CRITICAL CARE: BIG DATA FOR LITTLE HEARTS

- 11 a.m. The Fickle Promise of Big Data: A Primer to Help See Through the Hype • *Geoffrey L. Bird, M.D., M.S.I.S.*
- 11:20 a.m. Sickbay: The Texas Approach to Predictive Analytics for Physiological Data • *Kenneth Brady, M.D.*
- 11:40 a.m. T3: The Boston/Toronto Approach to Predictive Analytics for Physiological Data • *Peter Laussen, M.B.B.S., F.C.I.C.M.*
- Noon Big Data Between Centers: How the Pediatric Cardiac Critical Care Consortium Is Advancing the Science of Pediatric Cardiac ICU Care • *Michael G. Gaies, M.D., M.P.I.*
- 12:20 p.m. Organizing Care with Clinical Pathways: “Herding Cats” in the Cardiac ICU • *Maryam Naim, M.D.*
- 12:40 p.m. Q & A • *Faculty*
- 1 p.m. Adjourn

CHALLENGES AND DILEMMAS: THE CARDIAC CATHETERIZATION LABORATORY

- 11 a.m. The Gore Septal Occluder for Closure of Atrial Septal Defects: Current Outcomes • *Matthew Gillespie, M.D.*
- 11:20 a.m. Transcatheter Pulmonary Valve Therapy: A Critical Evaluation of Current Devices • *Doff McElhinney, M.D.*
- 11:40 a.m. Catheter-based Management of Re-coarctation of the Aorta • *Jacqueline Kreutzer, M.D.*
- Noon Fusion of MRI and Catheter-based Procedures: Is This The Future? • *Yoav Dori, M.D., Ph.D.*
- 12:20 p.m. Occupational Health: Should There Be a Black Box Warning on Interventional Cardiology as a Career? • *Jonathan J. Rome, M.D.*
- 12:40 p.m. Cath Lab Registries and Databases: Pandora’s Box? • *Faculty Panel*
- 1 p.m. Adjourn

CONTROVERSIAL DECISION-MAKING FOR SPORTS CLEARANCE: CHALLENGING, REAL LIFE CASES

- 11 a.m. Clinical Case 1 • *Mitchell I. Cohen, M.D.*
- 11:20 a.m. Clinical Case 2 • *Anne M. Dubin, M.D.*
- 11:40 a.m. Clinical Case 3 • *Susan P. Etheridge, M.D.*
- Noon Clinical Case 4 • *Andrew Papez, M.D.*
- 12:20 p.m. Clinical Case 5 • *Maully Shah, M.B.B.S.*
- 12:40 p.m. Q & A • *Faculty*
- 1 p.m. Adjourn

Thursday, Feb. 12

BOXED LUNCH • 1 – 2 p.m.

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

Pulmonary Valve Replacement in Tetralogy of Fallot: Why, When, How?

Panel: Jonathan J. Rome, M.D. (Leader); Matthew Gillespie, M.D.; Matthew Harris, M.D.; Doff McElhinney, M.D.; Laura Mercer-Rosa, M.D.; Richard Ohye, M.D.; V. Mohan Reddy, M.D.

ORAL ABSTRACTS • 3 – 4 p.m.

Plenary Session III

Challenges and Dilemmas in Caring for the Patient with Single Ventricle

- 4 p.m. Hybrid, Classic Norwood or Norwood RV to PA Conduit for the Neonate with HLHS: How Shall We Decide?
Richard Ohye, M.D.
- 4:20 p.m. Interstage Mortality Between HLHS Stage 1 and 2: Can We Make a Difference?
Girish S. Shirali, M.B.B.S., F.A.S.E., F.A.C.C.
- 4:40 p.m. Aorto-pulmonary Collateral Vessels: How Important Are They, What to Do About Them, and Do They Make a Difference?
Jonathan J. Rome, M.D.
- 5 p.m. Understanding Right Ventricular Mechanics in HLHS: From Prenatal Life Through Staged Reconstruction
Nee Sze Khoo, M.B.Ch.B.
- 5:20 p.m. The Lymphatic System: Methods for Evaluation, Mapping and Potential Treatment Strategies in the Patient with Single Ventricle
Yoav Dori, M.D., Ph.D.
- 5:40 p.m. It's More Than Just the Heart: End Organ Consequences of the Fontan Circulation
David Goldberg, M.D.
- 6 p.m. Q & A
Faculty
- 6:15 p.m. Adjourn



Nursing Pharmacology

7 a.m. Breakfast

What You Should Know About These Medications: Diuretics (Lasix, Aldactone, Diuril), Digoxin and Carvedilol, ACE Inhibitors and ARBs, Precedex, Propofol, Sildenafil and Bosentan

Plenary Session IV

The Borderline Left Ventricle

- 8 a.m. Anatomical Considerations in the Borderline Left Ventricle
Paul Weinberg, M.D.
- 8:20 a.m. Characterizing Adequacy or Inadequacy of the Borderline Left Ventricle: What Tools Can We Use?
Meryl Cohen, M.D.
- 8:40 a.m. Aortic Arch Repair in the Newborn with a Borderline Left Ventricle
Charles D. Fraser Jr., M.D.
- 9 a.m. Predicting (... and Encouraging) a Successful Two-ventricle Repair in the Fetus With Left-sided Heart Disease
Wayne Tworetzky, M.D.
- 9:20 a.m. A Strategy for Left Ventricular Rehabilitation: Can We Encourage the Left Ventricle to Develop?
Sitaram Emani, M.D.
- 9:40 a.m. 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 RESEARCH AND ORAL ABSTRACTS

The top 8 nursing abstracts will be formally presented and discussed.

- 11 a.m. Nursing Oral Abstract Competition (10-minute presentation, five-minute discussion)
1 p.m. Adjourn

CHALLENGES AND DILEMMAS IN HEALTHCARE ADMINISTRATION

- 11 a.m. Defining the Optimal Relationship Between the Department of Pediatrics and the “Hospital” in 2015 and in The Future • *Joseph St. Geme III, M.D.*
11:20 a.m. Integrating a Private Practice Cardiology Group with a Children’s Hospital: The Phoenix Experience • *Robert Meyer, President and CEO, Phoenix Children’s Hospital*
11:40 a.m. Use of Physician Extenders and Nurse Practitioners in CHD Care: Cost and Quality • *Robert Campbell, M.D.*
Noon Development of a Pediatric and Congenital Cardiac Service Line: The Kansas City Experience • *James E. O’Brien Jr., M.D.*
12:20 p.m. Getting Ready: Standardized Care Pathways and Impact on Cost • *Maryanne Kessel, R.N., M.B.A.*
12:40 p.m. Challenges for the Department Chair of Pediatrics in 2015: Navigating for Excellence • *Steven A. Webber, M.B.Ch.B., M.R.C.P.*
1 p.m. Adjourn

HIGHLIGHTED ANOMALY: TETRALOGY OF FALLOT WITH PULMONARY ATRESIA

- 11 a.m. Anatomical Features Influencing Management Decisions in Tetralogy of Fallot and Pulmonary Atresia • *Paul Weinberg, M.D.*
11:20 a.m. Pre-operative Assessment of Tetralogy of Fallot with Pulmonary Atresia: What Do We Need to Know and How Best Do We Learn It? • *Jonathan J. Rome, M.D.*
11:40 a.m. Management Strategy: Single Stage Unifocalization, Stanford Experience • *V. Mohan Reddy, M.D.*
Noon Management Strategy: Staged Approach, Toronto Experience • *Christopher Caldarone, M.D.*
12:20 p.m. Role of Catheter Interventions in Tetralogy of Fallot with Pulmonary Atresia • *Jacqueline Kreutzer, M.D.*
12:40 p.m. Outcomes for Tetralogy of Fallot and Pulmonary Atresia • *Doff McElhinney, M.D.*
1 p.m. Adjourn

CHALLENGES AND DILEMMAS IN NON-INVASIVE IMAGING

- 11 a.m. M-Mode or 2D Measurements: Who Knows Best? • *Girish S. Shirali, M.B.B.S., F.A.S.E., F.A.C.C.*
11:20 a.m. How to Assess LV Non-compaction in Cases with and without Congenital Heart Disease? • *Craig E. Fleishman, M.D.*
11:40 a.m. 3D MRI Modeling and 3D Printing: The Future of Surgical Planning for CHD? • *Mark Fogel, M.D.*
Noon Advanced Imaging Techniques to Assess the Atrioventricular Valves in CHD: Is It Just Research or Clinically Useful? • *Nee Scze Khoo, M.B.Ch.B.*
12:20 p.m. How Best to Assess RV Function by Echocardiography? • *Laura Mercer-Rosa, M.D.*
12:40 p.m. Echocardiographic Screening for Rheumatic Heart Disease in Ugandan Schoolchildren • *Craig Sable, M.D.*
1 p.m. Adjourn

UNDERSTANDING THE INS AND OUTS OF PACEMAKERS

- 11 a.m. Understanding Normal Timing Cycles • *Mitchell I. Cohen, M.D.*
Troubleshooting Pacing Problems • *Susan P. Etheridge, M.D.*
Troubleshooting Sensing Problems • *Andrew Papez, M.D.*
1 p.m. Adjourn

CHALLENGES AND DILEMMAS IN SURGERY FOR CHD

- 11 a.m. Pulmonary Vein Stenosis: From Understanding Pathophysiology to Effective Treatment • *Christopher Caldarone, M.D.*
11:20 a.m. Valve-sparing Aortic Root Reconstruction in the Young: Indications, Techniques and Outcomes • *James Tweddell, M.D.*
11:40 a.m. Individualizing Surgical Strategies for Repair of Tetralogy of Fallot: Sparing the Pulmonary Valve and Other Techniques • *Christopher E. Mascio, M.D.*
Noon Current Indications and Techniques for the Ross Procedure in the Young • *Thomas L. Spray, M.D.*
12:20 p.m. Congenital Heart Surgery in the Low Birth Weight Infant • *James St. Louis, M.D.*
12:40 p.m. Public Reporting of Surgical Results: Is It the Right Thing? • *J. William Gaynor, M.D.*
1 p.m. Adjourn

Friday, Feb. 13

BOXED LUNCH • 1 – 2 p.m.

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

Simple Lesion or Complex Dilemma?: What to Do About ...

Panel: Paul Stephens Jr., M.D. (Leader); Robert Campbell, M.D.; Welton Gersony, M.D.; Stephen Paridon, M.D.; Girish S. Shirali, M.B.B.S., F.A.S.E., F.A.C.C.; Thomas L. Spray, M.D.; Paul Weinberg, M.D.

ORAL ABSTRACTS • 3 – 4 p.m.

Plenary Session V

The Problem of Neurocognitive Impairment in CHD

- 4 p.m. Fetal Brain Growth and Development: Can It Be Modified?
J. William Gaynor, M.D.
- 4:20 p.m. Postnatal Developmental Vulnerability and Cerebral Metabolism
Daniel Licht, M.D.
- 4:40 p.m. Screening and Assessment for Neurodevelopmental Disorders in CHD
William T. Mable, M.D.
- 5 p.m. Theory of Mind and Adolescent Performance Disorders
Johanna Calderon, Ph.D., M.Sc.
- 5:20 p.m. Family Stress and Neurodevelopment in the Patient with CHD: From Fetus to Adolescence
Kathleen Mussatto, Ph.D., R.N.
- 5:40 p.m. Q & A
Faculty
- 6 p.m. Adjourn
- 6–7:30 p.m. **Sunset Gala Reception**



Saturday, Feb. 14

HEART RUN 5K

CARING FOR KIDS' HEARTS

New for 2015! 5K Heart Run

Exercise your body *and* your mind!

When: Valentine's Day, Feb. 14, 2015

Start Time: 6:15 a.m.

Where: On-site at the Hyatt Gainey Ranch – Start location TBA

Registration required and *limited to the first 200 registrants*

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



Part of the proceeds to be donated to charity to support CHD

Come out to run or to cheer on your colleagues!

Plenary Session VI

Awards and Featured Lectures

- 8 a.m. 13th Annual William J. Rashkind Memorial Lecture in Pediatric Cardiology
Victoria Vetter, M.D.
Introduction: Robert Shaddy, M.D.
- 8:30 a.m. 15th Annual C. Walton Lillehei Memorial Lecture in Cardiovascular Surgery
William J. Brawn, M.D.
Introduction: Thomas L. Spray, M.D.
- 9 a.m. 7th Annual Jack Downes Lecture in Cardiac Anesthesia and Critical Care
George Lister, M.D.
Introduction: James Steven, M.D.
- 9:30 a.m. 4th Annual Featured Lecture in the Cardiovascular Basic and Translational Sciences
Deepak Srivastava, M.D.
Introduction: Karl Degenhardt, M.D., Ph.D.
- 10 a.m. 15th Annual Featured Lecture in Cardiovascular Nursing: T. Garrett Rauch Memorial Lecture
Nancy A. Rudd, R.N., M.S., A.P.N.P.
Introduction: Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.
- 10:30 a.m. Presentation of the Outstanding Investigator and Nursing Scientist Awards
David Goldberg, M.D.; Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.

Break • 10:40 – 11 a.m.

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

CHALLENGING CASES IN NURSING CARE

- 11 a.m. Join the nursing faculty in a presentation of challenging cases and dilemmas. What can we learn from the cases that “stump” and “stress” us?
Kathryn M. Dodds; Dawn Tucker; Denise Donaghue; Courtney Howell; Michelle Osborn; Whitney Petrosa; Kelley Miller; Jennifer Shaffer; Kristen Sullivan
- 1 p.m. Adjourn

AMBULATORY CARE FOR PEDIATRIC AND CONGENITAL HEART DISEASE

- 11 a.m. The Required Skills for Ambulatory Cardiac Care in the Young: Is Training Necessary? • *Jeffrey Boris, M.D.*
- 11:20 a.m. Outpatient Multidisciplinary Screening for the Patient After Fontan Operation • *Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.*
- 11:40 a.m. Ethnicity and Prevalence of Congenital Heart Disease • *William N. Evans, M.D.*
- Noon Is There Room for Development of Clinical Pathways in Outpatient Pediatric Cardiology? A View from an Experienced Clinician • *Marie Gleason, M.D.*
- 12:20 p.m. Telemedicine: Utility and Impact in Pediatric Cardiology • *Craig Sable, M.D.*
- 12:40 p.m. Continuous Quality Improvement: Creating the Right Culture in CHD Care • *Roy Jedeikin, M.D.*
- 1 p.m. Adjourn

HIGHLIGHTED ANOMALY: CONGENITALLY CORRECTED TRANSPOSITION OF THE GREAT ARTERIES

- 11 a.m. Anatomical Considerations in Congenitally Corrected TGA • *Paul Weinberg, M.D.*
- 11:20 a.m. Imaging of the Patient with Congenitally Corrected TGA • *Craig E. Fleishman, M.D.*
- 11:40 a.m. Conduction Abnormalities in Congenitally Corrected TGA • *Anne M. Dubin, M.D.*
- Noon Surgical Management Options for Congenitally Corrected TGA • *William J. Brawn, M.D.*
- 12:20 p.m. Intermediate and Long-term Outcomes of Congenitally Corrected TGA • *Alan Friedman, M.D.*
- 12:40 p.m. Q and A • *Faculty*
- 1 p.m. Adjourn

FETAL MATTERS: THE CHALLENGE OF ...

- 11 a.m. Developing a Consensus AHA Statement on Fetal Cardiology: Significance and Implications for Clinical Practice • *Mary T. Donofrio, M.D.*
- 11:20 a.m. The Fetus at Risk for Maternal Autoimmune-induced Heart Block • *Bettina Cuneo, M.D.*
- 11:40 a.m. The Fetus with Ebstein's Anomaly • *Wayne Tworetzky, M.D.*
- Noon The Fetus with Left Ventricle-Right Ventricle Size Disproportion: Implications for the Neonate and Long-term Outcome • *Michael D. Puchalski, M.D.*
- 12:20 p.m. Cardiovascular Manifestations of Multiple Gestation Pregnancy • *Jack Rychik, M.D.*
- 12:40 p.m. Panel • *Faculty*
- 1 p.m. Adjourn

CHALLENGES AND DILEMMAS IN INTRA-OPERATIVE AND PERIOPERATIVE CARE FOR CHD

- 11 a.m. Can We Use Big Data to Inform on Decisions Concerning Extubation? • *Peter Laussen, M.B.B.S., F.C.I.C.M.*
- 11:20 a.m. Breaking Down the Silos of Medical Education: Providing Optimal Care for Children Requiring Intensive Care • *George Lister, M.D.*
- 11:40 a.m. Current Concepts on Right Ventricle Dysfunction and Future Therapeutic Prospects • *Francis McGowan, M.D.*
- Noon Peri-procedural Risk in the Patient with Pulmonary Hypertension • *Aruna Nathan, M.D.*
- 12:20 p.m. Early Extubation: A Valid Quality Objective or Unnecessary Risk? • *James Steven, M.D.*
- 12:40 p.m. Panel • *Faculty*
- 1 p.m. Adjourn

ADVANCES AND MANAGEMENT OF PULMONARY HYPERTENSION IN THE YOUNG

- 11 a.m. Overview of Pediatric Pulmonary Hypertension: Many Roads, Different Destinations? • *Brian D. Hanna, M.D., Ph.D.*
- 11:20 a.m. Treatment Strategies for Pediatric Pulmonary Hypertension: State-of-the-Art 2015 • *Dunbar Ivy, M.D.*
- 11:40 a.m. How Do We Translate Our Understanding of Right Ventricular Failure into Clinical Practice? • *Andrew Redington, M.D.*
- Noon The FK-506 Story: A New Pharmacological Target for Pulmonary Hypertension? • *Rachel Hopper, M.D.*
- 12:20 p.m. How We Engage Industry and Government in Pediatric Pulmonary Hypertension: Recent Failures and Successes • *Dunbar Ivy, M.D.*
- 12:40 p.m. Panel • *Faculty*
- 1 p.m. Adjourn

LUNCH • 1 – 2 p.m.

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

Thrombosis in Pediatric and Congenital Cardiovascular Disease

Panel: Therese Giglia, M.D. (Leader); Peter Laussen, M.B.B.S., F.C.I.C.M.; Daniel Licht, M.D.; Whitney Petrosa, M.S.N., C.P.N.P.-A.C.; Leslie Raffini, M.D.; Ravi Thiagarajan, M.D., M.P.H.; James Tweddell, M.D.

Plenary Session VII

Ethical and Social Dilemmas in Pediatric and Congenital Cardiovascular Care

- 3 p.m. Dealing with Social Media and Congenital Heart Disease in the Modern Era: Is It Helpful or Hurtful?
Kurt R. Schumacher, M.D., M.S.
- 3:20 p.m. Defining Quality of Life in Congenital Heart Disease
Philip Moons, Ph.D., R.N.
- 3:40 p.m. Drawing the Boundaries of Care: When Are We Over the Line?
Christopher Feudtner, M.D., Ph.D., M.P.H.
- 4 p.m. Palliative Care for the Newborn with Complex Congenital Heart Disease
David Munson, M.D.
- 4:20 p.m. Daily Ethical Challenges in a Busy Cardiac ICU
Roxanne Kirsch, M.D.
- 4:40 p.m. Panel
Faculty
- 5 p.m. Adjourn

Break/Visit the Exhibits • 5 – 6 p.m.

**Poster Session #3: Wine and Wisdom — Insights into
Pediatric and Congenital Cardiovascular Care**

6 p.m. QUIZ BOWL!

Host: Matthew Gillespie, M.D.

Test Your Knowledge Against Experts in the Field!

7 p.m. Adjourn

Plenary Session VIII

Challenges and Dilemmas in Adult Congenital Heart Disease

- 8 a.m. **Transitioning from Pediatric Cardiology to Adult Cardiology**
Adrienne Kovacs, Ph.D., C.Psych.
- 8:15 a.m. **The New ACHD Program Accreditation Process and Building the Ideal ACHD Program**
Curt Daniels, M.D.
- 8:30 a.m. **Parenting Styles and Perceived Health in Adolescents with Congenital Heart Disease**
Philip Moons, Ph.D., R.N.
- 8:45 a.m. **Unique Challenges and Dilemmas in Surgery for the Adult with Congenital Heart Disease**
Brian Kogon, M.D.
- 9 a.m. **Role of the Nurse Practitioner in Adult Congenital Heart Disease Care**
Lynda Tobin, M.S.N., C.R.N.P.
- 9:15 a.m. **Surgical Management of Aortic Disease — Adult and CHD Perspectives: The Congenital Heart Disease Focused Surgeon**
Christopher E. Mascio, M.D.
- 9:30 a.m. **Surgical Management of Aortic Disease — Adult and CHD Perspectives: The Adult Heart Disease Focused Surgeon**
Thor Sundt III, M.D.
- 9:45 a.m. **Q & A**
Faculty
- 10 a.m. **BREAK**
- 10:30 a.m. **Fontan Failure and Liver Fibrosis: Is It Time to Transplant the Liver Together with the Heart?**
Gruschen Veldtman, M.B.Ch.B., F.R.C.P.
- 10:45 a.m. **Managing Eisenmenger's Syndrome**
Curt Daniels, M.D.
- 11 a.m. **Discussing Life Expectancy, Advanced Directives, and Palliative Care with Your ACHD Patient**
Adrienne Kovacs, Ph.D., C.Psych.
- 11:15 a.m. **Transcatheter Aortic Valve Replacement and Applications in the ACHD Population**
Thor Sundt III, M.D.
- 11:30 a.m. **Take-home Lessons from the PACES/HRS Expert Consensus Statement on the Recognition and Management of Arrhythmias in Adult Congenital Heart Disease**
Maully Shah, M.B.B.S.
- 11:45 a.m. **Contraception and Pregnancy in Adult Congenital Heart Disease**
Yuli Kim, M.D.
- Noon **Q & A**
Faculty
- 12:15 p.m. **Adjourn**



Organizing Committee

Jack Rychik, M.D., Course Director, Philadelphia
 Lawrence Barnes, M.B.A., Philadelphia
 Geoffrey L. Bird, M.D., M.S.I.S., Philadelphia
 Jeffrey Boris, M.D., Philadelphia
 Meryl Cohen, M.D., Philadelphia
 Mitchell I. Cohen, M.D., Phoenix
 Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C., Philadelphia
 Craig E. Fleishman, M.D., Orlando
 Alan Friedman, M.D., New Haven
 Stephanie Fuller, M.D., Philadelphia
 J. William Gaynor, M.D., Philadelphia

David Goldberg, M.D., Philadelphia
 Maryanne Kessel, R.N., M.B.A., Milwaukee
 Yuli Kim, M.D., Philadelphia
 Alexis Perri, M.S.N., R.N., N.E.-B.C., Philadelphia
 Jonathan J. Rome, M.D., Philadelphia
 Tami Rosenthal, M.B.A., C.C.P., L.P., F.P.P., Philadelphia
 Robert Shaddy, M.D., Philadelphia
 Maully Shah, M.B.B.S., Philadelphia
 Girish S. Shirali, M.B.B.S., F.A.S.E., F.A.C.C., Kansas City
 Thomas L. Spray, M.D., Philadelphia
 James Steven, M.D., Philadelphia

Adult Congenital Heart

Curt Daniels, M.D.
 Nationwide Children's Hospital

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

Adrienne Kovacs, Ph.D., C.Psych.
 University of Toronto

Philip Moons, Ph.D., R.N.
 KU Leuven – University of Leuven, Belgium

Lynda Tobin, M.S.N., C.R.N.P.
 The Children's Hospital of Philadelphia

Gruschen Veldtman, M.B.Ch.B., F.R.C.P.
 Cincinnati Children's Hospital

Administration

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

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

Robert Meyer
 President and CEO, Phoenix Children's Hospital

Joseph St. Geme III, M.D.
 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

Kenneth Brady, M.D.
 Texas Children's Hospital

Michael G. Gaies, M.D., M.P.H.
 C.S. Mott Children's Hospital

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

Peter Laussen, M.B.B.S., F.C.I.C.M.
 The Hospital for Sick Children, Toronto

George Lister, M.D.
 Yale-New Haven Children's Hospital

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

Maryam Naim, M.D.
 The Children's Hospital of Philadelphia

Aruna Nathan, M.D.
 The Children's Hospital of Philadelphia

Kurt R. Schumacher, M.D., M.S.
 C.S. Mott Children's Hospital

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

Ravi Thiagarajan, M.D., M.P.H.
 Boston Children's Hospital

Cardiology

Jeffrey Boris, M.D.
The Children's Hospital of Philadelphia

Julie Brothers, M.D.
The Children's Hospital of Philadelphia

Robert Campbell, M.D.
Children's Healthcare of Atlanta

Karl Degenhardt, M.D., Ph.D.
The Children's Hospital of Philadelphia

William N. Evans, M.D.
Children's Heart Center Nevada

Welton Gersony, M.D.
Columbia University New York

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

Marie Gleason, M.D.
The Children's Hospital of Philadelphia

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

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

Roy Jedeikin, M.D.
Phoenix Children's Hospital

William T. Mahle, M.D.
Children's Healthcare of Atlanta

Silvana Molossi, M.D., Ph.D.
Texas Children's Hospital

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

Andrew Redington, M.D.
Cincinnati Children's Hospital

Deepak Srivastava, M.D.
Gladstone Institute of Cardiovascular Disease

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

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

Cardiac Catheterization

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

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

Jacqueline Kreutzer, M.D.
Children's Hospital of Pittsburgh of UPMC

Doff McElhinney, M.D.
Lucile Packard Children's Hospital at Stanford

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

Electrophysiology

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

Anne M. Dubin, M.D.
Lucile Packard Children's Hospital at Stanford

Susan P. Etheridge, M.D.
Primary Children's Hospital

Andrew Papez, M.D.
Phoenix Children's Hospital

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

Victoria Vetter, M.D.
The Children's Hospital of Philadelphia

Fetal Cardiology

Bettina Cuneo, M.D.
Children's Hospital Colorado

Mary T. Donofrio, M.D.
Children's National Medical Center

Christopher Lindblade, M.D.
Phoenix Children's Hospital

Michael D. Puchalski, M.D.
Primary Children's Hospital

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

Tara M. Swanson, M.D.
Children's Mercy Hospital

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

Wayne Tworetzky, M.D.
Boston Children's Hospital

Heart Failure

Paul F. Kantor, M.B.B.Ch., D.C.H., F.R.C.P.(C)
Stollery Children's Hospital

Kimberly Y. Lin, M.D.
The Children's Hospital of Philadelphia

Angela Lorts, M.D.
Cincinnati Children's Hospital

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

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

Steven A. Webber, M.B.Ch.B., M.R.C.P.
Monroe Carell Jr. Children's Hospital at Vanderbilt

Imaging

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

Craig E. Fleishman, M.D.
Arnold Palmer Hospital for Children

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

Alan Friedman, M.D.
Yale-New Haven Children's Hospital

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

Nee Sze Khoo, M.B.Ch.B.
Stollery Children's Hospital

Laura Mercer-Rosa, M.D.
The Children's Hospital of Philadelphia

Craig Sable, M.D.
Children's National Health System

Girish S. Shirali, M.B.B.S., F.A.S.E., F.A.C.C.
Children's Mercy Hospital



Nursing

- Julia Bowman, M.S.N., R.N.
Phoenix Children's Hospital
- Kathryn M. Dodds, M.S.N., C.R.N.P.-A.C.
The Children's Hospital of Philadelphia
- Denise Donaghue, R.N., M.S.N.
The Children's Hospital of Philadelphia
- Stephanie Esparza, D.N.P., C.P.N.P.-P.C.
Phoenix Children's Hospital
- Linda Goss, M.S.N.
The Children's Hospital of Philadelphia
- Courtney Howell, M.S.N., C.P.N.P.-A.C./P.C.
Phoenix Children's Hospital
- Kelley Miller, M.S.N., C.R.N.P.
The Children's Hospital of Philadelphia
- Kathleen Mussatto, Ph.D., R.N.
Children's Hospital of Wisconsin
- Michelle Osborn, R.N., M.S.N.
Phoenix Children's Hospital
- Ashley Patton, B.S.N., R.N.
The Children's Hospital of Philadelphia
- Alexis Perri, M.S.N., R.N., N.E.-B.C.
The Children's Hospital of Philadelphia
- Whitney Petrosa, M.S.N., C.P.N.P.-A.C.
The Children's Hospital of Philadelphia
- Nancy A. Rudd, R.N., M.S., A.P.N.P.
Children's Hospital of Wisconsin
- Jennifer Shaffer, M.S.N., C.P.N.P.
Phoenix Children's Hospital
- Kristen Sullivan, M.S.N., C.P.N.P.
Phoenix Children's Hospital
- Dawn Tucker, M.S.N., C.P.N.P.-A.C.
Mercy Children's Hospital
- Alexander Woodruff, B.S.N., R.N., C.C.R.N.
Phoenix Children's Hospital

Other

- Johanna Calderon, Ph.D., M.Sc.
University of Paris Descartes, Boston Children's Hospital
- Christopher Feudtner, M.D., Ph.D., M.P.H.
The Children's Hospital of Philadelphia
- Daniel Licht, M.D.
The Children's Hospital of Philadelphia
- David S. Ludwig, M.D., Ph.D.
Boston Children's Hospital
- Meredith McDonough, M.S., C.C.L.S. IV
The Children's Hospital of Philadelphia
- David Munson, M.D.
The Children's Hospital of Philadelphia
- Leslie Raffini, M.D.
The Children's Hospital of Philadelphia
- Meghan Roswick

Perfusion

- Tami Rosenthal, M.B.A., C.C.P., L.P., F.P.P.
The Children's Hospital of Philadelphia
- Molly Dreher, C.C.P., L.P.
The Children's Hospital of Philadelphia
- Dan Gomez, C.C.P., F.P.P.
Nationwide Children's Hospital

Pulmonary Hypertension

Brian D. Hanna, M.D., Ph.D.
The Children's Hospital of Philadelphia

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

Dunbar Ivy, M.D.
Children's Hospital Colorado

Surgery

William J. Brawn, M.D.
Birmingham Children's Hospital, United Kingdom

Christopher Caldarone, M.D.
The Hospital for Sick Children, Toronto

Sitaram Emani, M.D.
Boston Children's Hospital

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

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

Marshall Jacobs, M.D.
The Johns Hopkins Hospital

Brian Kogon, M.D.
Children's Healthcare of Atlanta

Christopher E. Mascio, M.D.
The Children's Hospital of Philadelphia

David Morales, M.D.
Cincinnati Children's Hospital

John Nigro, M.D.
Phoenix Children's Hospital

James E. O'Brien Jr., M.D.
Children's Mercy Hospital

Richard Ohye, M.D.
C.S. Mott Children's Hospital

V. Mohan Reddy, M.D.
Lucile Packard Children's Hospital at Stanford

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

James St. Louis, M.D.
Children's Mercy Hospital

Thor Sundt III, M.D.
Massachusetts General Hospital

James Tweddell, M.D.
Children's Hospital of Wisconsin

Daniel Velez, M.D.
Phoenix Children's Hospital



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Cardiovascular Disease**

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
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CARDIAC CENTER

Cardiology 2016

The conference will be held Wednesday, Feb. 24 through Sunday, Feb. 28, 2016, at the Loews Royal Pacific Resort.

In addition to the comprehensive program and course syllabus, the registration fee includes daily continental breakfasts, lunches, receptions, access to the conference presentation site and access to an exclusive exhibit of cardiovascular products and educational materials specific to pediatric cardiovascular disease.

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 on space and rate availability.

Tear off and keep in a prominent place!



 The Children's Hospital
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18th Annual Update on Pediatric and Congenital Cardiovascular Disease

February 11 – 15, 2015 • Scottsdale, Ariz.

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 \$895
- Fellows, Residents, Nurses, Medical Students and Other Healthcare Professionals \$595

Optional Limited Registration Preconference Symposium • Wednesday, Feb. 11 *(Please select only one.)*

- The Fetus with Heart Disease..... \$125
- Mechanical Circulatory Support in Pediatric and Congenital Heart Disease \$125
- The Essentials of Neonatal CHD: A Primer for Nurses and Frontline Providers \$125
- Heart Run • Saturday, Feb. 14, 6:15 a.m. *(limited to the first 200 registrants)* \$25

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/cardiology2015.

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 Hyatt Regency Scottsdale Resort must be made by contacting the resort directly at 1-888-421-1442. The special conference room rate is \$299 per night. Mention the CHOP Pediatric Cardiology Conference to receive the discounted rate.

Learn more at www.chop.edu/cardiology2015

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Challenges and Dilemmas

February 11 – 15, 2015

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