

CONGENITAL CARDIOLOGY TODAY

Timely News and Information for BC/BE Congenital/Structural Cardiologists and Surgeons

Volume 6 / Issue 4A

April 2008

2008 SPECIAL ISHAC PREVIEW

EDITION - International

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CONGENITAL CARDIOLOGY TODAY

Editorial and Subscription Offices
16 Cove Rd, Ste. 200
Westerly, RI 02891 USA
www.CongenitalCardiologyToday.com

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The Third International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC) – June 16-18, 2008 “Two Perspectives; Single Focus”

By John P. Cheatham, MD and Mark Galantowicz, MD

Dear Friends and Colleagues:

Your dedication and expertise have contributed to some remarkable advances in congenital heart disease over the past decade. While new transcatheter and surgical treatments have improved patient outcomes, many challenges remain. In order to facilitate the high level dialogue necessary to stimulate ongoing developments, we invite you to the Third International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC) on June 16-18, 2008.

This year we are honored to feature keynote addresses by Edward L. Bove, MD, Head, Section of Cardiac Surgery and Chief of Pediatric Cardiac Surgery at the University of Michigan Health System, and Terry D. King, MD, FAPP, FACC, FACP, Medical Director of Pediatric Services at St. Francis Medical Center in Monroe, LA and Clinical Professor of Pediatrics at Tulane University School of Medicine. Dr. Bove is one of the world's leading pediatric cardiac surgeons and is particularly renowned for his work with Hypoplastic Left Heart Syndrome. Dr. King was the first person to implant and close an ASD in a



human being. These true pioneers will share their experiences and insights throughout ISHAC as presenters, moderators, and even Workshop faculty.

This highly interactive symposium presents the latest clinical and research developments from around the world. Indeed, in 2006 and 2007, faculty and participants came from 33 states, 24 countries, and 5 continents. ISHAC has something for everyone – from tips on getting started with a Hybrid program to follow-up studies on the post-interventional successes, challenges, and complications. In addition to podium presentations, seven

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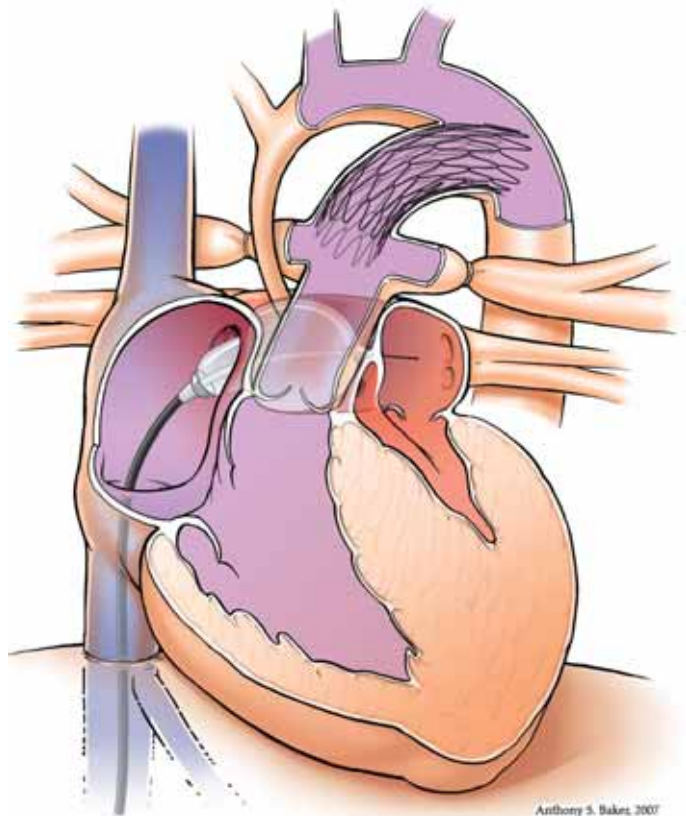
live cases will be broadcast from the Hybrid Suites at Nationwide Children's Hospital and Rush University Medical Center (Chicago) and the University Laboratory Animal Resources Experimental Surgical Suites (ULAR) on the campus of The Ohio State University. You will actively participate by answering questions using the audience response system, thereby enabling you to know immediately what your colleagues are thinking.

In order to foster ongoing dialogue among highly respected colleagues from around the world, we will also feature poster sessions during the Symposium (June 17th and 18th). You are invited to submit your work by May 19, 2008. Abstracts must be related to congenital heart disease, with preference for hybrid approaches. A \$100 refund on the registration fee will be given to all accepted poster presenters.

A unique and particularly valuable part of ISHAC is the optional Skills Workshop. In 2008 this Workshop is the first day (June 16th). The outstanding ULAR staff, coupled with the technically skilled faculty and unique animal models, makes it an ISHAC favorite.

The Hyatt Regency in Downtown Columbus, adjacent to the Short North and Arena District, is the host hotel and meeting site. A cosmopolitan mix of night life and the arts community is just outside your hotel room. Social events include a welcome cocktail reception and a first class casual barbecue dinner, and dancing at The Party Barn. This gala evening promises to relax and re-energize one and all in the finest tradition.

ISHAC is a unique educational program in which interventional cardiologists, cardiothoracic surgeons, echocardiographers, nurse practitioners, perfusionists, and other Heart Center staff come together to learn from one another and discuss new approaches to the most challenging issues in congenital heart disease. For the latest information on ISHAC or to register online, please visit our website at www.hybridsymposium.com.



CCT



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2008 Keynote Speakers - Edward L. Bove, MD and Terry D. King, MD

Edward L. Bove, MD

Edward L. Bove, MD, is a Professor in the Department of Surgery at the University Of Michigan School of Medicine where he holds the Helen F. and Marvin M. Kirsch Professorship in Cardiac Surgery. He is also the Head, Section of Cardiac Surgery; Division Chief, Pediatric Cardiac Surgery Division; and Co-Director, Michigan Congenital Heart Center at the University of Michigan Health System in Ann Arbor, MI. After medical school at Albany Medical College, Dr. Bove pursued surgery and thoracic surgery training at the University of Michigan. He then joined the Hospital for Sick Children in London, England as a Senior Registrar for additional training in complex congenital heart surgery. In addition to a very busy clinical practice, Dr. Bove serves on the American Board of Thoracic Surgery and the Editorial Board of The Journal of Thoracic and Cardiovascular Surgery. Dr. Bove is considered one of the world's outstanding pediatric cardiac surgeons and is particularly renowned for his work with Hypoplastic Left Heart Syndrome. Indeed, over 40 percent of his patients come from outside Michigan, including many countries around the world. Dr. Bove is listed in *Who's Who in Health and Medical Services* and the *Best Doctors in America*.

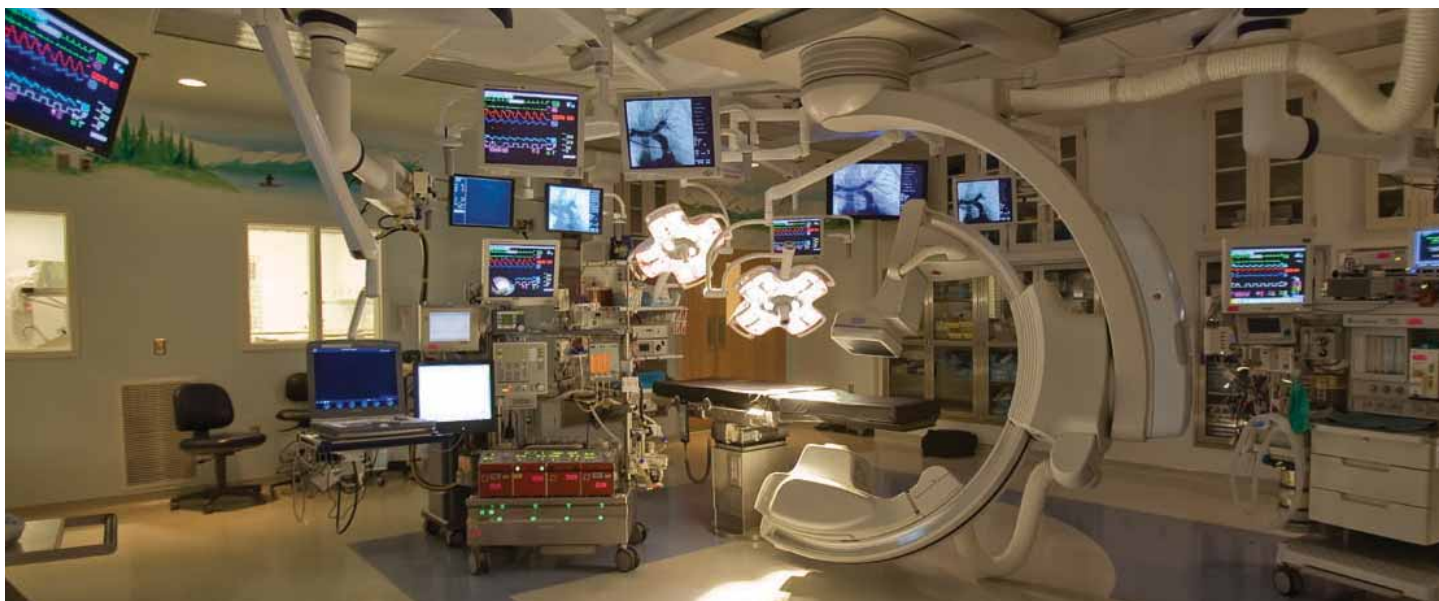


Terry D. King, MD

Terry D. King, MD, a world renowned pediatric interventional cardiologist from Monroe, LA, has had a most extraordinary career. Dr. King graduated from medical school and completed his internship in Pediatrics at the University of Texas Branch in Galveston, and his residency and fellowship in Pediatric Cardiology at Duke University. After serving as a major in the US Air Force, Dr. King joined the staff at the Ochsner Clinic (New Orleans) where he became Chairman of the Department in 1973. It was there he met Dr. Noel Mills, a cardiac surgeon, and together they pursued a vision for non-invasive closure of defects in the heart. Working with a machinist from Baton Rouge, Dr. King and Dr. Mills developed and patented the cardiac umbrella for non surgical closure of ASD's and, subsequently, a device for PDA closure. In 1975, Dr. King became the first person to implant and close an ASD in a human being. After receiving many awards and traveling the globe to give talks on this new technology, Dr. King decided to leave Ochsner and move to the rolling hills of West Monroe, LA. He established the NICU, PICU, cardiac cath lab, and congenital cardiac disease program at St. Francis Medical Center and, along the way, he also co-founded the Ronald McDonald House in Monroe. Most recently, Dr. King was honored to receive the first Pioneer Award presented by the Pediatric Interventional Cardiac Symposium in Las Vegas and the first annual Terry King Lectureship in Pediatric Cardiology established by Louisiana State University and Children's Hospital, New Orleans.



CCT



Where Technology Meets Innovation

The Hybrid Cardiac Operating Suite at Nationwide Children's Hospital



Tours of the Hybrid Cardiac Catheterization and Surgical Suites are available during ISHAC 2008 or take a virtual tour at NationwideChildrens.org/HeartCenter.

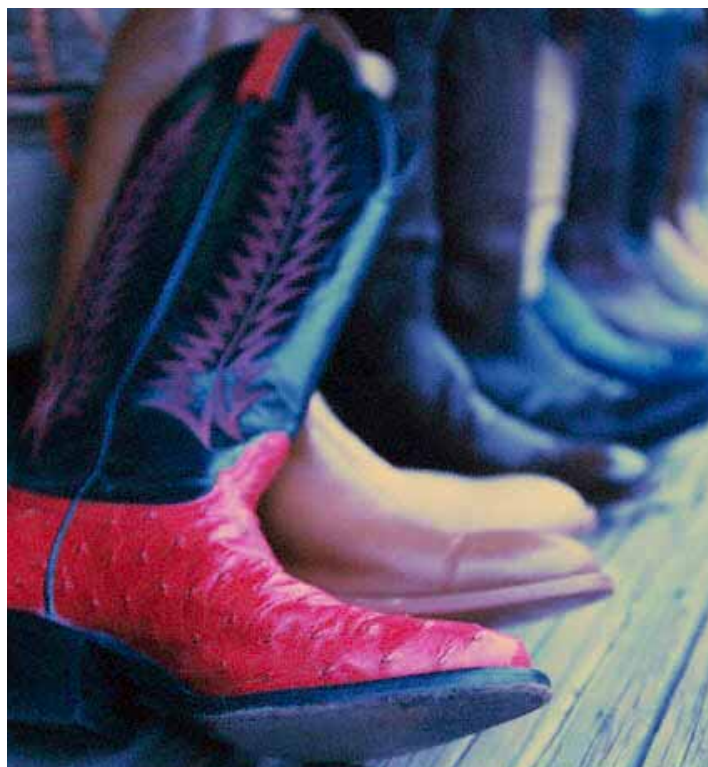
Dedicated in 2004, the Hybrid Cardiac Catheterization Suites at Nationwide Children's were outfitted with the latest visualization equipment and diagnostic technology, allowing the Hybrid team to work more effectively and efficiently while providing quality patient care. Then in 2007, the innovative spirit of the cardiothoracic surgical and interventional cardiology teams came together again to bring the same hybrid technology to a state-of-the-art operating suite with more precise and consistent imaging.

The result? An efficient, leading edge workspace that reduces the amount of time required to correct a heart problem, as well as the amount of emotional and physical stress placed on patients and their families. This translates into less pain, less scarring and a faster recovery time for patients.

Additionally, technical capabilities allow information to be transmitted to remote sites within the hospital and around the world, enabling The Heart Center faculty to consult with physicians in distant countries and to serve as a teaching hospital as further advancements are made.

ISHAC Gala Barbecue with All the “Fixings”

Get ready to kick-up your heels for ISHAC's Gala Barbecue Dinner at The Party Barn located on the private Wexner estate in New Albany, Ohio. The centerpiece of this exclusive venue is a 10,000 square-foot traditional barn constructed entirely of yellow pine and featuring a unique beam and peg constructed interior. On arrival, guests will be welcomed with cocktails and a gourmet American Barbecue with all the fixings. Attire for the evening is casual, with jeans and cowboy boots welcome. After-dinner events will take place inside the barn and outside under the stars with dancing and other special surprises. Our appreciation to the Wexner family for offering this wonderful location for our Gala celebration.



“ISHAC will always have a special meaning for us as it was our first conference together as father and daughter pediatric cardiologists. Although having different generational perspectives regarding the treatment of children with congenital heart disease, we found the ideas and approaches presented at the meeting to be revolutionary and unifying.”



~ Mahmoud Heydarian, MD and Haleh Heydarian, MD



SUNDAY - JUNE 15 - Welcome Cocktail Reception at Hyatt Regency

Registration Available

MONDAY - JUNE 16 - Skills Workshop - Day One

Skills Workshop - Day One

Workshop Directors: Ralf J. Holzer, MD; Alistair Phillips, MD; Valerie Bergdall, DVM

7:15 am - Buses take Group 1 to Workshop

7:30 – 8:00 am - Continental Breakfast, Welcome and Overview of Stations: *Ralf J. Holzer, MD; Alistair Phillips, MD*

8:00 am – Noon or 1:00 - 5:00 pm - SKILLS STATIONS
(Faculty):

- I. Periventricular VSD Closure
- II. Intraoperative Stents
- III. Hybrid Stage I HLHS Palliation
 - PA Bands
 - PDA Stent
 - PA Flow Restrictors
- IV. Special Break-out Sessions and Demonstrations

11:30 am - Buses take Group 2 to Workshop

Noon - Lunch Provided for Groups 1 & 2

1:00 pm - Buses return Group 1 to Hyatt Regency

5:00 pm - Buses return Group 2 return to Hyatt Regency

6:00 – 8:00 pm - Welcome Cocktail Reception at Hyatt Regency - Registration Available





"It was an outstanding conference, both logistically and professionally. I must admit, coming from a place that "doesn't believe" in the Hybrid approach (yet), it provided a great deal of education and ammunition

to try to change the institutional beliefs. In fact, when I returned, there were two recent cases which probably would have been better done in a Hybrid fashion... a little too late, but we'll be ready for the next opportunities."

~Jeffrey A. Feinstein, MD, MPH from Stanford, CA USA



TUESDAY - JUNE 17 - Morning Session

Symposium Day One - Posters & Displays

Directors: John P. Cheatham, MD; Mark Galantowicz, MD

7:00 – 7:45 am - Continental Breakfast & Registration Posters & Displays

7:45 – 8:00 am - Welcome: (Steve Allen, MD; Jerry Jurgensen) **Introductory Remarks:** (John P. Cheatham, MD; Mark Galantowicz, MD)

8:00 – 10:15 am - Hypoplastic Left Heart Syndrome Part I:
Moderators: Ziyad M. Hijazi, MD; Jinfen Liu, MD; Gil Wernovsky, MD

8:00 – 9:15 am - Hybrid Experiences from Abroad

- Cardiovascular Institute & Fuwai Hospital Beijing, China: Shengshou Hu, MD
- Instituto Dante Pazzanese de Cardiologia Sao Paulo, Brazil: Carlos Pedra, MD
- Evelina Children's Hospital London, United Kingdom: Shakeel Qureshi, MD
- Universitätsklinikum Giessen: Hybrid Approach for HLHS...an update Giessen, Germany: Dietmar Schranz, MD

9:15 – 10:15 am - LIVE CASE: Hybrid HLHS - NCH Hybrid Catheterization/ OR Suites: John P. Cheatham, MD; Mark Galantowicz, MD; Sharon L. Hill, MSN, ACNP

10:15 – 10:30 - Break with Posters, Displays, & Discussion

10:30 am – 12:00 pm - Hypoplastic Left Heart Syndrome Part II:
Moderators: Zahid Amin, MD; Emile Bacha, MD; Carlos Pedra, MD

10:30 – 11:30 am:

- Traditional Hybrid PA Bands: Hakan Akintuerk, MD
- Adjustable PA Bands: Renato Assad, MD
- Pulmonary Artery Flow Restrictors: Alistair Phillips, MD from ULAR

11:30 am – 12:00 pm - LIVE CASE: Pulmonary Artery Flow Restrictors - University Laboratory Animal Resources (ULAR) Experimental Surgical Suites: Alistair Phillips, MD; Ralf J. Holzer, MD

12:00 – 1:00 pm - Lunch with Posters, Displays and Discussion



TUESDAY - JUNE 17 - Afternoon Session

1:00 – 2:15 pm - Hypoplastic Left Heart Syndrome Part III:

Moderators: *Hakan Akintuerk, MD; Sharon L. Hill, MSN, ACNP; John P. Kovalchin, MD; Shakeel Qureshi, MD*

1:00– 2:15 pm

- HLHS with IAS: Fetal Therapy: *Doff McElhinney, MD*
- Histotripsy & the Atrial Septum: *Achi Ludomirsky, MD*
- The Atrial Septum . . . The Achilles Heel?
John P. Cheatham, MD
- Retrograde Aortic Arch Obstruction...uh oh!
Ziyad M. Hijazi, MD

2:15 – 2:30 pm - Break with Posters, Displays and Discussion**2:30 – 4:00 pm - Hypoplastic Left Heart Syndrome Part IV:**

Moderators: *Redmond Burke, MD; Craig E. Fleishman, MD; Simone Fontes Pedra, MD*

2:30 – 3:15 pm - LIVE CASES: Histotripsy of the Atrial Septum - ULAR Experimental Surgical Suites:

Achi Ludomirsky, MD; Zhen Xu, PhD

3:15 – 4:00 pm - Advances in the Treatment of HLHS:

- Rethinking the Surgical Approach to HLHS:
Emile Bacha, MD
- Hybrid Approach to HLHS: How Are We Doing?
Mark Galantowicz, MD

4:00 –5:00 pm - Keynote Speakers

- Laissez les bons temps rouler! (The Early Years. New Orleans, La.): *Terry D. King, MD*
- The Surgeon, Innovation, and Accountability in Today's Medical Environment: *Edward L. Bove, MD*

5:00 – 5:15 pm - Wrap Up: *John P. Cheatham, MD; Mark Galantowicz, MD*

5:30 pm - Buses leave for Tour of NCH Hybrid Catheterization / OR Suites

6:30 pm - Buses leave hotel and NCH for Gala Dinner

7:00 – 11:00 pm - Gala Barbecue Dinner at The Party Barn with Entertainment and Dancing (Casual dress, jeans and cowboy boots welcome)

11:00 pm - Buses return to Hyatt Regency



“Let me say straight up, I love this meeting. It’s the most fun and the most I learn at any meeting during the year.”

~ *Evan M. Zahn, MD, FAAC from Miami, FL USA*



"I thought that last year's meeting was excellent. Probably the most important aspect for most of the delegates was the way the Columbus faculty demonstrated the truly collaborative nature of a

Hybrid program. They

achieved this in both their didactic role and in their personal contacts with visitors. Their open, inclusive and friendly approach was a great educational experience. The day in the animal lab was outstanding. I am sure that, after that experience many returned to their own units fired up with enthusiasm to put what they had learned into clinical practice.

Finally, it was a lot of fun."

~Michael Tynan, MD - from London, United Kingdom



WEDNESDAY - JUNE 18 - Morning Session

Symposium Day Two - Posters & Displays

Directors: John P. Cheatham, MD; Mark Galantowicz, MD

7:00 – 7:45 am - Continental Breakfast with Posters and Displays

7:45 – 8:00 am - Update & Announcements:

John P. Cheatham, MD; Mark Galantowicz, MD

8:00 – 8:30 am - Starting a Hybrid Program

- Finding the Resources: Securing Financial and Community Support: *Abigail S. Wexner*
- Design of Hybrid Catheterization & OR Suites: *Vincent Olshove, CCP, CCT*

8:30 – 9:45 am - SEPTAL DEFECTS Part I:

Moderators: Renato Assad, MD; Frank F. Ing, MD; Jinfen Liu, MD; Dietmar Schranz, MD

8:30 – 9:45 am

- Challenges of Surgical Closure of MVSD: *Edward L. Bove, MD*
- Challenges of Percutaneous Device Closure of MVSD: *Mario Carminati, MD*
- Periventricular Device Closure of MVSD: *Zahid Amin, MD*
- Peratrial Device Closure of Secundum ASD: *Carlos Pedra, MD*

9:45 – 10:00 am - Break with Posters, Displays and Discussion

10:00 – 11:15 am - HYBRID APPROACH TO STENTS:

Moderators: Mark Galantowicz, MD; Shengshou Hu, MD; Charles E. Mullins, MD

10:00 – 11:15 am:

- Challenges of Re-operation for Pulmonary Artery Stenosis & Recoarctation of Aorta...and stents to boot!!! *Redmond Burke, MD*
- Intraoperative PA Stents: *Ralf J. Holzer, MD*
- Intraoperative Aortic Stents: *Redmond Burke, MD*
- Intraoperative VSD Stents & More: *Frank F. Ing, MD*

11:15 – 12:15 am - LIVE CASE: Intra-operative PA Stent - NCH Hybrid Catheterization / OR Suites: *Ralf J. Holzer, MD; Alistair Phillips, MD; Vince Olshove, CCP, CCT*

12:15 – 1:15 pm - Lunch with Posters, Displays and Discussion / First Fung Wexner Awards Announced

WEDNESDAY - JUNE 18 - Afternoon Session

1:15 – 3:15 pm - SEPTAL DEFECTS Part II:

Moderators: Mario Carminati, MD; Charles E. Mullins, MD; Simone Fontes Pedra, MD

1:15 – 2:00 pm - LIVE CASE: Perventricular Muscular VSD

- Device Closure - Rush University Medical Center,

Chicago: Ziyad M. Hijazi, MD; Qi-Ling Cao, MD;

Michel N. Ilbawi, MD

2:00 – 2:45 pm:

- Creation & Closure of Septal Defects Using Real Time 3D Echo Guidance: *Nikolay V. Vasilyev, MD from ULAR*
- Advanced Imaging of the Septum: *Craig E. Fleishman, MD*
- Advanced Imaging for Interventional Procedures: *Philipp Bonhoeffer, MD*

2:45 – 3:15 pm - LIVE CASE: Closure of Septal Defect Using Real Time 3D Echo Guidance - ULAR Experimental

Surgical Suites: *Nikolay V. Vasilyev, MD;*

Achi Ludomirsky, MD

3:15 – 3:30 pm - Break with Posters, Displays and Discussion**3:30 – 5:00 pm - THE FUTURE**

Moderators: Philipp Bonhoeffer, MD; Terry D. King, MD;

Pamela A. Lucchesi, PhD; Zhen Xu, PhD

3:30 – 5:00 pm:

- New Developments in Implanting The Melody Pulmonary Valve . . . the infundibular reducer: *Philipp Bonhoeffer*
- Neurodevelopmental Outcomes in Congenital Heart Disease: *Gil Wernovsky MD*
- Bioabsorbable Stents...a savior for all? *Dietmar Schranz, MD*
- Inflammatory Mechanisms in Congenital Heart Disease: *John Bauer, PhD*
- Myocardial & Progenitor Cell Function in Congenital Heart Disease: *Loren Wold, PhD*

5:00 – 5:15 pm - Closing Remarks: John P. Cheatham, MD;

Mark Galantowicz, MD

7:00 pm - Informal Dinner at Hyatt Regency

LIVE CASE SUMMARY

**Hybrid Stage I for HLHS at NCH
Hybrid Catheterization/OR**

*John P. Cheatham, Mark Galantowicz,
and Sharon Hill*

**Pulmonary Artery Flow Restrictors at
ULAR Experimental Surgical Suites**

Alistair Phillips and Ralf J. Holzer

**Histotripsy of the Atrial Septum at
ULAR Experimental Surgical Suites**

Achi Ludomirsky and Zhen Xu

**Intra-operative PA Stent at NCH
Hybrid Catheterization/OR Suites**

*Ralf J. Holzer, Alistair Phillips, and
Vincent Olshove*

**Perventricular Muscular VSD Device
Closure at Rush University Medical
Center (Chicago) Hybrid Suite**

*Ziyad M. Hijazi, Qi-Ling Cao, and
Michel N. Ilbawi*

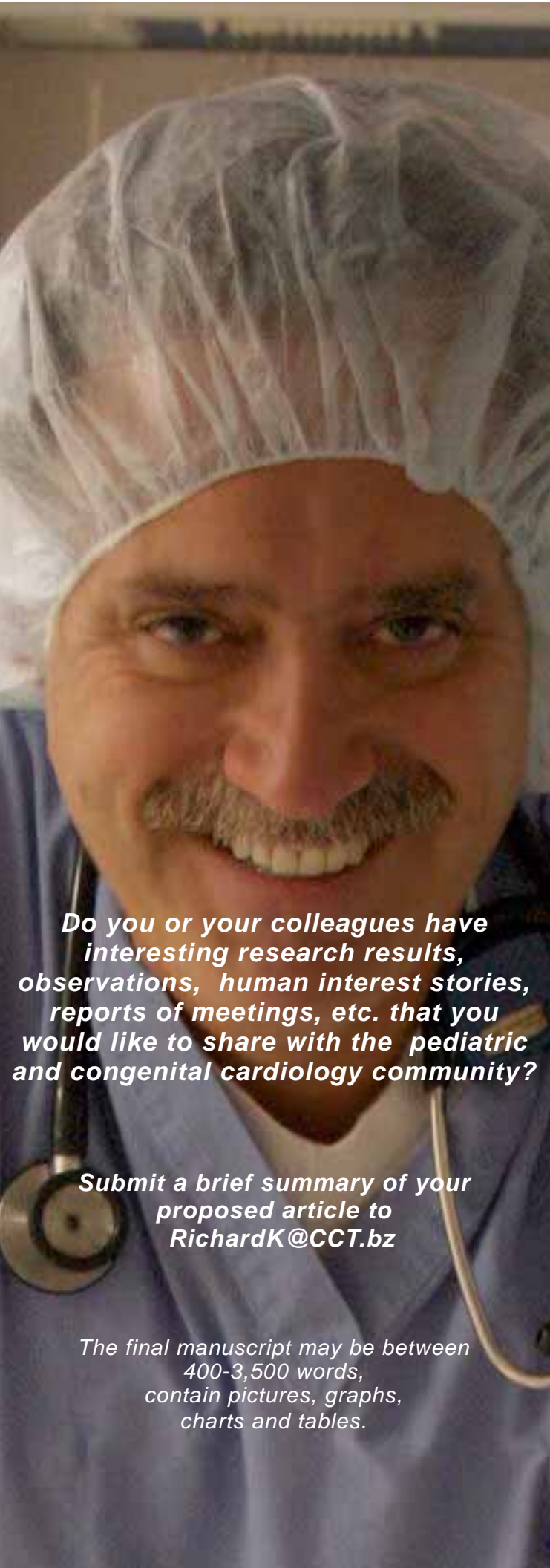
**Closure of Septal Defect Using Real
Time 3D Echo Guidance at ULAR
Experimental Surgical Suites**

*Nikolay V. Vasilyev and
Achi Ludomirsky*

**TBA at ULAR Experimental Surgical
Suites OR NCH Hybrid
Catheterization/OR Suites
TBA**

“Since the last ISHAC, we have done successfully four consecutive Hybrid procedures for HLHS, [including] . . . our first fetal atrioseptostomy in Sao Paulo, right after the meeting in Columbus. The fetus had a restrictive foramen ovale and signs of venous pulmonary hypertension. Our team, Carlos, Simone and Fábio Peralta, did a great job during the 32nd week of gestation, relieving fetal pulmonary hypertension. The baby was delivered uneventfully at term and had the hybrid procedure carried out on the 5th day of life, with adjustable PA bands, ductal stenting, and reverse BT shunt. We are planning the stage II procedure for the next week. The fourth case is a premature baby (35-36 week gestation baby), weighing about 2000 g. This baby was submitted to the hybrid approach on the second day of life, with conventional PA bands and two stents, one in the ductus and another in the restrictive foramen ovale. The procedure was uneventful and the baby is doing very well at home. [We] would like to share with you these cases because much of our learning came from you and ISHAC 2006 and 2007, and we are very grateful for everything you have taught us during those meetings.”

*~ Renato Assad, MD; Carlos Pedra, MD; and
Simone Fontes Pedra, MD - from Sao Paulo, Brazil*



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***Do you or your colleagues have
interesting research results,
observations, human interest stories,
reports of meetings, etc. that you
would like to share with the pediatric
and congenital cardiology community?***

***Submit a brief summary of your
proposed article to
RichardK@CCT.bz***

*The final manuscript may be between
400-3,500 words,
contain pictures, graphs,
charts and tables.*



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Sharon L. Hill, MSN, ACNP-BC

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Karen E. Heiser, PhD

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Zahid Amin, MD
Renato Assad, MD
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Abigail S. Wexner

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ISHAC REGISTRATION INFORMATION

International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC)

June 16-18, 2008
Hyatt Regency Columbus

Attendees may register on the website:
www.hybridsymposium.com

Questions?

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CONGENITAL CARDIOLOGY TODAY

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ISSN: 1544-7787 (print); 1544-0499 (online).
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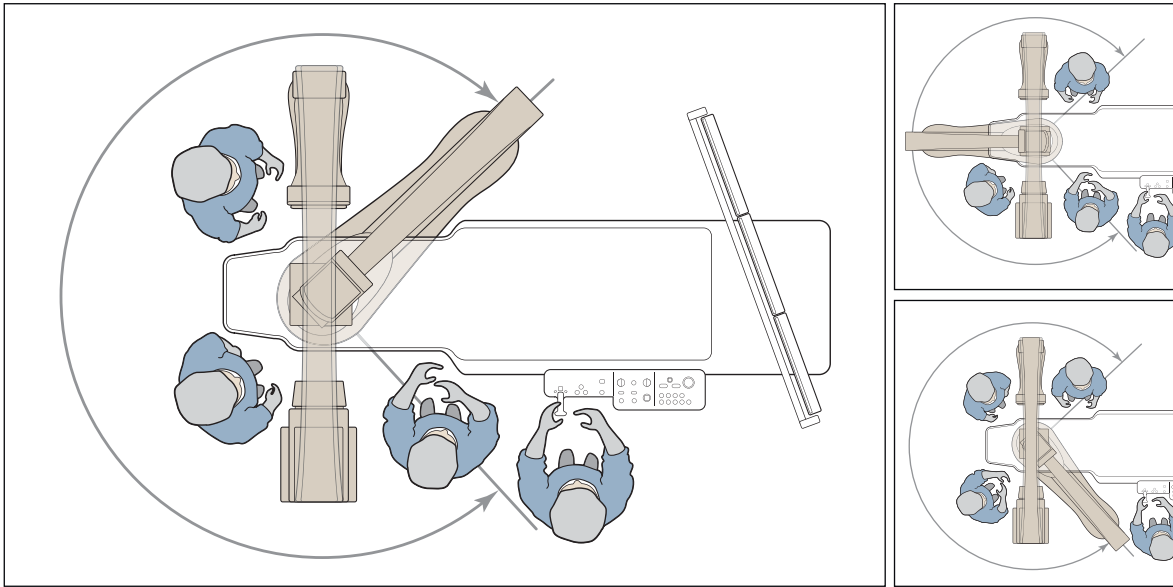
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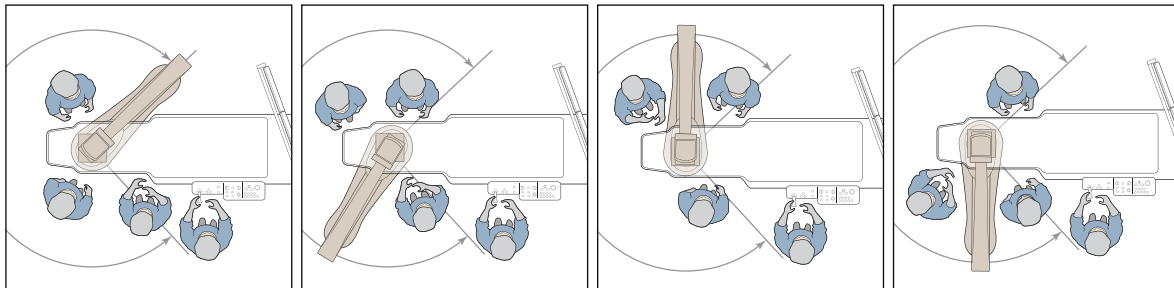


Does your cath lab put you in an ideal position with patients?

(With our Infinix™-i, ideal positions aren't just possible, they're infinite.)

Unprecedented access without repositioning your patient or breaking the sterile field. It's what happens when engineers are invited into real working environments to watch clinicians bend and twist, trying to treat their patients. Out of such deep understanding comes innovative, slender c-arms that can position detectors right where they're needed, even in the most challenging positions. Only by working in close partnership with clinicians can such elegant and unique solutions be created. Get more details at www.medical.toshiba.com/solutions.

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LiveCases@CHDVideo.com

MELODY[®] Transcatheter Pulmonary Valve ENSEMBLE[®] Transcatheter Delivery System



Providing new options
for the lifetime
management of
patients with congenital
heart disease



The Melody[®] Transcatheter Pulmonary Valve and Ensemble[®] Transcatheter Delivery system have received CE Mark approval and are available for distribution in Europe. Additionally, a Medical Device Licence has been granted and the system is available for distribution in Canada. Products are not available for sale in the United States.

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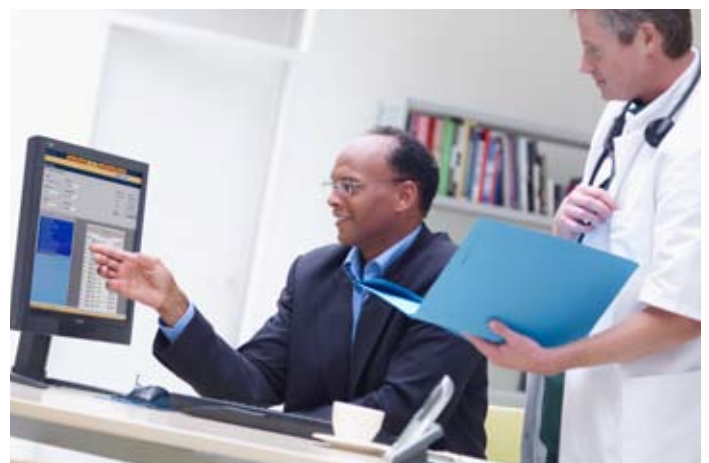
Alleviating Pain · Restoring Health · Extending Life



A pediatric cath lab that grows with your patients

The pediatric hybrid cath lab from Philips

As children with congenital heart problems grow up, the cath lab has to address their changing imaging and interventional needs. And, as cardiac procedures evolve, an interdisciplinary approach to cardiac treatment is becoming more common. The Philips Xper pediatric hybrid cath lab offers a flexible, efficient solution combining advanced features to meet surgical and cardiology requirements so you can provide patients, at any age, optimal treatment.



PHILIPS

Flexibility

With Philips Xper hybrid cath lab, physicians and staff can perform advanced procedures today, while being prepared for the future.

Our solution, with many features exclusive to Philips, includes:

- iE33 echo with Live 3D TEE transducer
- Xper Biplane with DoseWise and Xres3 Image Quality
- Xper DoseAware designed to reduce patient skin overexposure
- Xper Access Geometry increases access and space utilization
- Xper Table designed around hybrid lab workflow
- Xper Information Management for single-entry workflow
- Xcelera Cardiology PACS
- Tableside control of imaging, physiomonitoring and PACS
- Integrated viewing/switching of modality inputs

Designed to meet pediatric hybrid lab requirements

The new Philips Xper hybrid lab was built based on the input of leading cardiologists, cardio-thoracic surgeons, technologists and nursing professionals. For cardiologists and surgeons working together – the lab offers key benefits:

For the cardiologist and staff

- Designed around hybrid lab imaging and access requirements for:
 - HLHS Stage 1 palliation
 - Intra-operative stent placement
 - ASD and VSD repair
 - PFO diagnosis and treatment
 - Percutaneous valve replacement
- New and exclusive Interventional Tools to simplify pediatric cases
 - PDA and PA visualization
 - Stent deployment and sizing verification
 - Right and left ventricular analysis

For the surgeon

- Rapid emergency access to the patient
- Table meets unique surgical requirements
- Operating room lighting
- 3D room planning and layout



If you'd like to know more about how the Philips pediatric hybrid cath lab solution can grow with your patients, please contact your Philips representative.

Philips – the choice of leading pediatric institutions

- Boston Children's Hospital
- Cincinnati Children's Hospital
- Children's Hospital of Illinois
- Children's Hospital of Minneapolis
- Children's Hospital of Pennsylvania
- Children's Hospital of Philadelphia
- Children's Hospital of Pittsburgh
- Children's National Medical Center
- Cleveland Clinic Children's Hospital
- Columbus Children's Hospital
- Cook Children's Medical Center
- Duke University Medical Center
- Legacy Emmanuel
- Massachusetts General Hospital
- Medical University of South Carolina
- Michael Dell Children's Hospital
- Montefiore Medical Center
- New York Presbyterian / Morgan Stanley Children's Hospital of New York
- Norton Healthcare Kosair Children's Hospital
- Phoenix Children's Hospital
- Robert Wood Johnson University Hospital
- Rush University Children's Hospital
- St. Louis Children's Hospital
- Southwest Texas (Methodist) Hospital
- Sunrise Hospital & Medical Center
- University of Alabama Hospital and Clinic
- University of California San Francisco
- University of Kentucky Gill Heart Center
- Vanderbilt University Hospital
- West Virginia University Children's Hospital
- Yale New Haven Hospital



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Philips Medical Systems is part of Royal Philips Electronics

Philips Medical Systems N.A.
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Printed in USA
4522 962 26081/722 * OCT 2007