

C O N G E N I T A L C A R D I O L O G Y T O D A Y

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

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SPECIAL ISHAC 2010 PREVIEW

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CONGENITAL CARDIOLOGY TODAY

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The Fifth International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC) – Aug. 31-Sep. 2, 2010

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

Dear Friends and Colleagues,

Please join us for the *5th International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC)* on August 31 – September 2, 2010. We return to Columbus after an outstanding shared meeting with Mario Carminati's *Workshop IPC* meeting last year in Milan, Italy. Over 600 attendees were treated to 3 full days of learning and friendship. For 2010, we are honored to have Keynote addresses from Philipp Bonhoeffer MD, FSCAI, renowned interventional cardiologist and innovator from London, UK, and John G. Byrne, MD, Chairman of Cardiac Surgery and pioneer in Hybrid therapies for adults with cardiovascular disease, Vanderbilt University, Nashville, Tennessee, USA.

ISHAC remains a unique forum where a 2-day Symposium is coupled with a special 1-day *Skills Workshop*. Attendees will learn the latest clinical and research developments in Hybrid therapies from our prestigious international faculty. Over the years, we have had faculty and participants from over 34 states, 50 countries, and 6 continents; we expect this year to be no exception. ISHAC truly has something for everyone – surgeons, cardiologists, anesthesiologists, nurses and nurse practitioners, perfusionists, technical staff, allied health professionals, and research



scientists. There will be didactic lectures, moderated discussions, live case demonstrations, special noon presentations with box lunches, tours of the Hybrid Suites at Nationwide Children's Hospital, and direct access to our faculty for questions and answers. This year, procedures will be performed from Hybrid Suites at Rush Medical Center in Chicago, Miami Children's Hospital, and Nationwide Children's Hospital...with special Hybrid procedures broadcast from our University Laboratory Animal Resources Experimental Surgical Suites (ULAR).

We are especially proud of the 1-day special Skills Workshop at ULAR to be held on Tuesday August 31st, which requires a separate registration and has a limited attendance. Registrants will

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The final manuscript may be between 400-4,000 words, and contain pictures, graphs, charts and tables.

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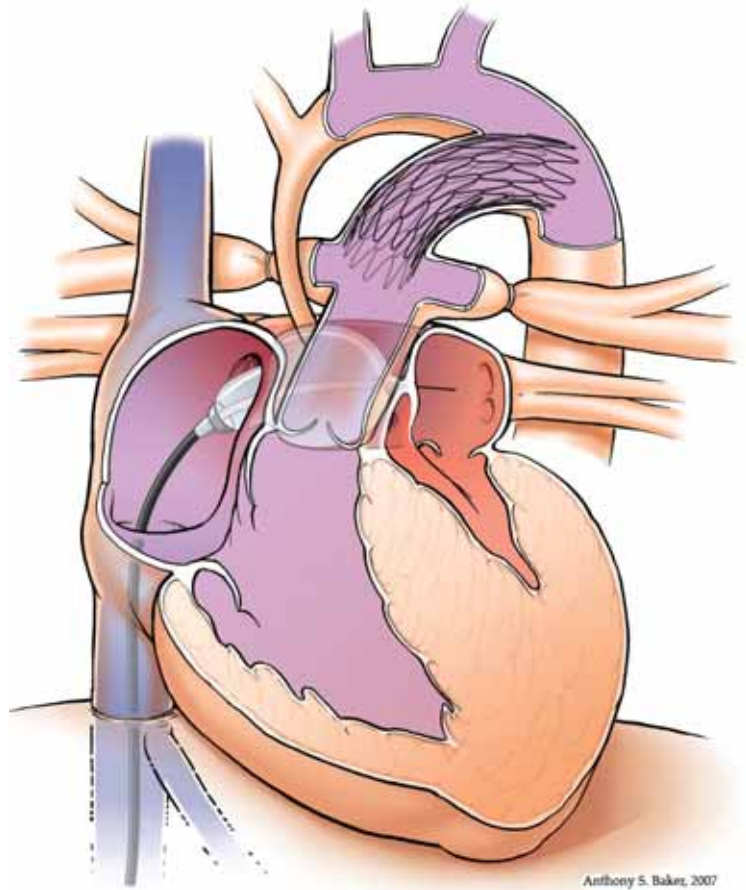
work directly with our faculty and have hands-on experiences with many forms of Hybrid therapies in our specially designed animal models. The Workshop is truly unique and allows the attendees to return to their own institutions to initiate, expand, and improve Hybrid therapies.

In 2008, we selected abstracts on Hybrid therapies in Congenital Heart Disease (CHD) for Poster presentations and offered a \$100 refund on the Symposium registration. For 2010, we have expanded this process to accept abstracts for both Oral and Poster presentations. The top 3 abstracts will be presented during the Symposium as an 8 minute lecture with 2 minutes for discussion. All accepted abstracts will receive the \$100 Registration Refund. We are encouraging returning *ISHAC* attendees by offering a \$100 Registration Refund. Please visit our web site at www.hybridsymposium.com for registration and the latest updates.

In addition to adding selected oral abstract presentations for 2010, we have expanded research and outcome discussions on Hybrid therapies, have added a session on Hybrid therapies in adults with cardiovascular disease, and will close the Symposium with a "Hybrid Nightmare" session. Finally, we are pleased to share *ISHAC* with a special *Cardiovascular Perfusion Workshop* to be held concurrent with the *Skills Workshop* on Tuesday, August 31st.

ISHAC 2010 will be held at The Hilton Columbus at Easton Town Center, a AAA 4-Diamond luxurious hotel located within the Easton Town Center, where excellent shopping, entertainment, and dining are a few steps away. Because of the huge success of our 2008 Gala at The Party Barn with a Western BBQ theme, we have decided to reprise the Gala at the same venue, but this time with an International Sports Theme...so bring your favorite sport team's attire to wear. It will be another memorable event! Finally, we are attempting to secure a limited number of tickets for The Ohio State University Buckeye football game to be held after *ISHAC* is over, Thursday evening September 2nd...stay tuned.

We extend our appreciation to the planning committee, ULAR staff, faculty, industry supporters, and everyone who has assisted with this year's event.



Anthony S. Baker, 2007

CCT



John P. Cheatham, MD, FSCAI
 Co-Director, The Heart Center
 Director, Cardiac Catheterization &
 Interventional Therapy
 Nationwide Children's Hospital
 Professor, Pediatrics & Internal Medicine,
 Cardiology
 The Ohio State University College of Medicine
 George H. Dunlap Endowed Chair in
 International Cardiology



Mark Galantowicz, MD, FSCAI
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 Chief, Cardiothoracic Surgery
 Nationwide Children's Hospital
 Associate Professor of Surgery
 The Ohio State University College of Medicine
 Murray D. Lincoln Endowed Chair in
 Cardiothoracic Surgery

The Heart Center at Nationwide Children's Hospital
 700 Children's Drive
 Columbus, OH 43205 USA



ISHAC FACULTY

Program Directors: John P. Cheatham, MD, FSCAI and Mark Galantowicz, MD, FSCAI

Keynote Speakers: Philipp Bonhoeffer, MD, FSCAI and John G. Byrne, MD

Workshop Directors: Ralf J. Holzer, MD, FSCAI and Alistair Phillips, MD

Program Co-Director: Sharon L. Hill, MSN, ACNP-BC

Program Coordinator: Karen E. Heiser, PhD

Perfusion Directors: Vincent Olshove, CCP; Daniel Gomez, CCP and Thomas J. Preston, CCP

Guest Faculty: Valerie K. Bergdall, DVM - University Laboratory Animal Resources, Columbus, OH; Philipp Bonhoeffer, MD, FSCAI - University College, London, UK; John G. Byrne, MD - Vanderbilt Heart, Nashville, TN; Christopher Caldarone, MD - University of Toronto, Toronto, ON; Mario Carminati, MD, FSCAI - San Donato Milanese, Milan, Italy; John P. Cheatham, MD, FSCAI - Nationwide Children's Hospital, Columbus, OH; Curt Daniels, MD - Nationwide Children's Hospital, Columbus, OH; Timothy F. Feltes, MD - Nationwide Children's Hospital, Columbus, OH; Mark Galantowicz, MD, FSCAI - Nationwide Children's Hospital, Columbus, OH; Daniel Gomez, CCP - National Children's Hospital, Columbus, OH; Daniel Gruenstein, MD - Amplatz Children's Hospital, Minneapolis, MN; Ziyad M. Hijazi, MD, FSCAI - Rush University Medical Center, Chicago, IL; Sharon L. Hill, MSN, ACNP-BC - Nationwide Children's Hospital, Columbus, OH; Ralf J. Holzer, MD, FSCAI - Nationwide Children's Hospital, Columbus, OH; Shengshou Hu, MD - Cardiovascular Institute & Fuwai Hospital, Beijing, China; John P. Kovalchin, MD - Nationwide Children's Hospital, Columbus, OH; Pamela A. Lucchesi, PhD - Nationwide Children's Hospital, Columbus, OH; William T. Mahle, MD - Children's Healthcare of Atlanta, Atlanta, GA; Doff McElhinney, MD, FSCAI - Children's Hospital Boston, Boston, MA; Richard G. Ohye, MD - University of Michigan, Ann Arbor, MI; Vincent Olshove, CCP - Nationwide Children's Hospital, Columbus, OH; Carlos Pedra, MD - Instituto Dante Pazzanese de Cardiologia, São Paulo, Brazil; Simone Fontes Pedra, MD - Instituto Dante Pazzanese de Cardiologia, São Paulo, Brazil; Thomas J. Preston, CCP - Nationwide Children's Hospital, Columbus, OH; Alistair Phillips, MD - Nationwide Children's Hospital Columbus, OH; Mark D. Rodefeld, MD - Indiana University School of Medicine, Indianapolis, IN; Carlos Ruiz, MD, PhD, FSCAI - Lenox Hill Hospital, New York, NY; Dietmar Schranz, MD - Universitätsklinikum Giessen, Giessen, Germany; Nikolay V. Vasilyev, MD - Children's Hospital Boston, Boston, MA; Zhen Xu, PhD - University of Michigan, Ann Arbor, MI; Evan Zahn, MD, FSCAI - Miami Children's Hospital Miami, FL and David Zhao, MD - Vanderbilt Heart, Nashville, TN

Honorable Guest Faculty: Steve Allen, MD, CEO, Nationwide Children's Hospital, Columbus, OH; and Abigail S. Wexner, Chairman, Board of Trustees, Nationwide Children's Hospital, Columbus, OH

Organizing Committee: Becky Williams, MEd; Jennifer English; Jeanne Green; Stephanie Cannon, MS; and Donna Teach, MS

ISHAC: AUGUST 30 - MONDAY REGISTRATION

6:00-8:00 pm - Registration in Lobby of Hilton at Easton

SKILLS WORKSHOP: AUGUST 31 - TUESDAY SESSION

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

7:00 am - Buses Take Group 1 to Workshop

7:30-8:00 am - Continental Breakfast

- **Welcome and Overview of Stations** - Ralf J. Holzer, MD, FSCAI and Alistair Phillips, MD

8:00 am-12:00 pm - Skills Stations - Faculty
or

12:30-4:30 pm -

- I. Perventricular VSD Closure
- II. Intraoperative Stents
- III. Hybrid Stage I HLHS Palliation
 - PA Bands
 - PDA Stent
 - PA Flow Restrictors
- IV. Perfusion Station
 - Emergency ECLS System

11:30 am - Buses Take Group 2 to Workshop

12:00 pm - Lunch Provided for Groups 1 and 2

1:00 pm - Buses Return Group 1 to Hilton

4:30 pm - Buses Return Group 2 to Hilton or to NCH for Tours

- Buses from Hilton to NCH for Tours

5:00-6:15 pm - Tour of Hybrid Suites at NCH

6:15 pm - Buses Return to Hilton



Please visit www.hybridsymposium.com for up-to-date program changes.

PERFUSION WORKSHOP: AUGUST 31 - TUESDAY SESSION

Workshop Overview

With many congenital cardiac centers building, or considering constructing Hybrid Cath Suites and / or Operating Suites, there is a need for perfusionists to step forward and become involved in the planning, design and implementation of such venues. The inclusion of the perfusionist as a valuable team member and resource will contribute significantly to the design and success of these Suites and to a Hybrid program.

Workshop Directors: *Vincent Olshove, CCP;*
Daniel Gomez, CCP and Thomas J. Preston, CCP

7:00 am - Buses Take Group 1 Hilton to Workshop

7:30-8:00 pm - Continental Breakfast

- **Welcome and Overview of Stations:** *Vincent Olshove, CCP;*
Daniel Gomez, CCP and Thomas J. Preston, CCP

8:00-8:30 am - Perfusion Role in Cardiac Hybrid OR and Cath Suite Design

8:30-11:30 am - Skills Station - Faculty
or

12:30-4:30 pm -

- Hybrid Perfusion Circuit Design
- Incorporating Cardioplegia and Suckers
- Converting from Bypass to ECMO
- New Technologies for the Cath Lab

12:00 pm - Lunch Provided for Groups 1 and 2

1:00 pm - Buses Return Group 1 to Hilton

4:30 pm - Buses Return Group 2 to Hilton or to NCH for Tours
Buses From Hilton to NCH for Tours

5:00-6:15 pm - Tour of Hybrid Suites at NCH

6:15 pm - Buses Return to Hilton

6:00 am-8:00 pm - Registration in Lobby of Hilton at Easton



Watch Congenital Cardiology Today's Live Cases Online
See selected past live cases from Previous ISHAC meetings at: www.CHDVideo.com

**ISHAC: SEPTEMBER 1 - WEDNESDAY
MORNING SESSION**

ISHAC Directors: *John P. Cheatham, MD, FSCAI and Mark Galantowicz, MD, FSCAI*

7:00-7:45 am - Continental Breakfast and Registration

7:45-8:00 am - Welcome - *Steve Allen, MD and Abigail S. Wexner*

- **Introductory Remarks** - *John P. Cheatham, MD, FSCAI and Mark Galantowicz, MD, FSCAI*

Hypoplastic Left Heart Syndrome - Part I - Moderators: *Ziyad M. Hijazi, MD, FSCAI and Alistair Phillips, MD*

8:00 -8:20 am - Update from the Single Ventricle Reconstruction Trial - *Richard G. Ohye, MD*

8:20-8:40 am - Hybrid Update from Giessen, Germany - *Dietmar Schranz, MD*

8:40-9:00 am - Hybrid Update from Columbus, Ohio - *Mark Galantowicz, MD, FSCAI*

9:00-9:20 am - Update from Fetal Experience at CHB - *Doff McElhinney, MD, FSCAI*

9:20-9:40 am - Discussion

9:40-10:15 am - LIVE CASE

10:15-10:30 am - Break

Hypoplastic Left Heart Syndrome - Part II - Moderators: *William T. Mahle, MD and Simone Fontes Pedra, MD*

10:30-10:45 am - PDA Stent Histopathology - *Pamela A. Lucchesi, PhD*

10:45-11:00 am - Echo/Angio . . . The Retrograde Aortic Arch - *John P. Kovalchin, MD*

11:00-11:15 am - Cerebral Blood Flow and Neurodevelopment After Hybrid Stage I - *Sharon L. Hill, MSN, ACNP-BC*

11:15-11:30 am - Discussion

11:30 am-12:00 pm - LIVE CASE

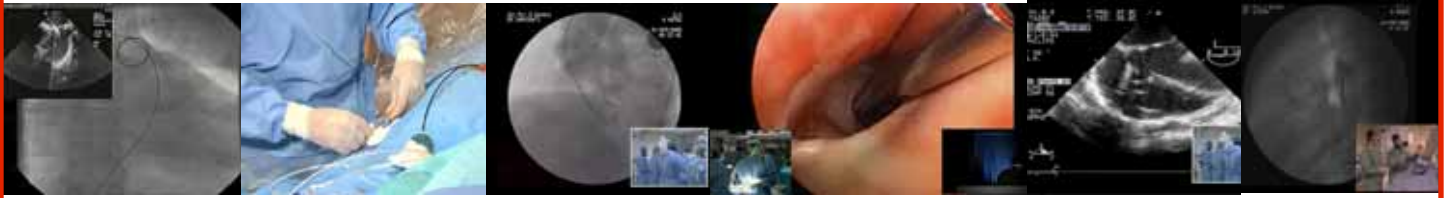
12:00-1:00 pm - Box Lunch Provided - Posters and Displays

- **12:15-12:30 pm - Learning Curve in Hybrid Approach to HLHS** - *Carlos Pedra, MD*
- **12:30-12:45 pm - How to Analyze Early Results Using the Hybrid Approach to HLHS** - *Daniel Gruenstein, MD*
- **12:45-1:00 pm - Other Strategies for Retrograde Aortic Arch Flow** - *Christopher Caldarone, MD*



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- Percutaneous Pulmonary Valve Implantation
- Pulmonary Artery Rehabilitation
- Device Closure is Safe & Should be Continued
- Catheter Management in the Neonate
- Duct Dependent Lesions: Stent vs. Shunt
- Intervention in the Immediate Post-op Period
- The Edwards Valve
- Percutaneous Closure of the VSD
- Transcatheter Implant of a Melody Valve Watch - VSD Closure
- Covered Stent to Eliminate Fontan Baffle Leak & Stenosis
- Native Coarctation of Aorta - Stent Implantation
- Pulmonary Artery Flow Restrictors
- Transcatheter Valve
- Intra-operative PA Stent
- Periventricular Muscular VSD Device Closure
- Closure of Septal Defect Using Real Time 3D Echo Guidance
- Periventricular Membranous VSD
- Hybrid Stage I Palliation for HLHS PA Bands and PSA Stent
- Intraoperative Aortic Stent for CoA
- Intraoperative LPA Stent Using Endoscopic Guidance
- Creation of ASD after PA Bands & PDA Stent for HLHS in a Preemie
- Periventricular Implant of Edwards Valve Stent in the Pulmonary Position
- Closure of Septal Defect Using Real Time 3D Echo Guidance
- High Frequency Ultrasound Creation of ASD
- PmVSD Closure
- Hybrid Stage I Palliation for Complex Single Ventricle in a 1.4 kg Neonate
- Transcatheter Implantation of Implantable Melody Valve
- Perimembranous VSD Closure with Amplatzer Membranous VSD Occluder
- Stent RPA, Pre-Stent Conduit & Melody Valve Implant
- Transeptal LHC Assessment of Residual Coarctation
- Coarctation Stenting Using a Covered CP Stent
- Closure of ASD Under ICE Guidance
- PFO Closure
- Transcatheter Closure of Atrial Septal Defect (ASD)
- Closure of ASD under TEE Guidance
- Transcatheter Closure of Moderate PDA
- Pulmonary Angioplasty
- Hybrid Stage Palliation
- ADO or MVSD Closure of PDA
- VSD Closure Using a PDA Device
- Balloon Pulmonary Valvuloplasty
- Coil or Vascular Plug II closure of Coronary Fistula
- Device Closure of ASD
- Stent Placement Across Recurrent Coarctation
- Stenting RVOT on 7-day Old Newborn
- Transfemoral AVR for AS
- ASD Closure with Septal Occluder
- Stenting of Coarctation of Aorta
- Transapical AVR for Aorta Stenosis
- and more....

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**ISHAC: SEPTEMBER 1 - WEDNESDAY
AFTERNOON SESSION**

Fontan - Moderators: *Richard G. Ohye, MD and
Doff McElhinney, MD, FSCAI*

1:00-1:20 pm - **Fontan Completion After Hybrid Stage I and
Comprehensive Stage II** - *Mark Galantowicz, MD, FSCAI*

1:20-1:40 pm - **Outcomes for HLHS Get Real**
- *William T. Mahle, MD*

1:40-2:00 pm - **VAD Assisted Fontan A Glimpse of the
Future** - *Mark D. Rodefeld, MD*

2:00-2:20 pm - **Transcatheter Fontan Experience Past,
Present, and Future** - *John P. Cheatham, MD, FSCAI*

2:20-2:40 pm - **Discussion**

2:40-3:15 pm - **LIVE CASE**

3:15-3:30 pm - **Break**

VSD and Stents - Moderators: *Dietmar Schranz, MD and
Daniel Gruenstein, MD*

3:30-3:45 pm - **Hybrid Approach to RVOT Obstruction**
- *Shengshou Hu, MD*

3:45-4:00 pm - **Endoscopic Guidance in the O.R.**
- *Alistair Phillips, MD*

4:00-4:15 pm - **Intraoperative Stents** - *Evan Zahn, MD, FSCAI*

4:15-4:30 pm - **Exit Angiography** - *Ralf J. Holzer, MD, FSCAI*

4:30-4:45 pm - **Perventricular MVSD Closure - Catheter Based**
- *Ziyad M. Hijazi, MD, FSCAI*

4:45 - 5:00 pm - **Perventricular MVSD Closure - Surgical
Based** - *Nikolay V. Vasilev, MD*

5:00-5:15 pm - **Discussion**

5:15-5:30 pm - **WRAP-UP** - *John P. Cheatham, MD, FSCAI and
Mark Galantowicz, MD, FSCAI*

6:30 pm - **Buses Leave Hotel for Gala Dinner**

7:00-11:00 pm - **Gala Dinner at The Party Barn with
Entertainment and Dancing - International Sports Theme
(see page 14)**



Continuing Medical Education

The Nationwide Children's Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Nationwide Children's Hospital designates this educational activity for a maximum of 20.75 AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**ISHAC: SEPTEMBER 2 - THURSDAY
MORNING SESSION**

ISHAC Directors: John P. Cheatham, MD, FSCAI and Mark Galantowicz, MD, FSCAI

7:00-7:45 am - Continental Breakfast, Posters and Displays

7:45-8:00 am - Update and Announcements

- John P. Cheatham, MD, FSCAI and Mark Galantowicz, MD, FSCAI

8:00-9:00 am - KEYNOTE ADDRESS

- **Having an Idea and Bringing it to Reality . . . the Melody Experience and Beyond** - Philipp Bonhoeffer, MD, FSCAI
- **Characteristics of a Successful Hybrid Program** - John G. Byrne, MD

9:00-9:20 am - Discussion

9:20-10:00 am - LIVE CASE

10:00-10:15 am - Break

New Materials and Technologies for Hybrid Therapies -

Moderators: Christopher Caldarone, MD and Ralf J. Holzer, MD, FSCAI

10:15-10:30 am - Biodegradable Stents - Dietmar Schranz, MD

10:30-10:45 am - 3-D Rotational Angiography - Evan Zahn, MD, FSCAI

10:45-11:00 am - MRI Imaging - Philipp Bonhoeffer, MD, FSCAI

11:00-11:15 am - Histotripsy - Zhen Xu, PhD

11:15-11:30 am - Discussion

Top Abstract Presenters - Moderators: Ziyad M. Hijazi, MD, FSCAI; Mario Carminati, MD, FSCAI, Timothy F. Feltes, MD and Shengshou Hu, MD

11:30-11:40 am - #1 Abstract - To Be Announced

11:40-11:50 am - #2 Abstract - To Be Announced

11:50 am-12:00 pm - #3 Abstract - To Be Announced

12:00-1:00 pm - Box Lunch Provided - Posters and Displays

12:15-1:00 pm - Designing Hybrid Suites Outside Columbus . . . Obstacles and Rewards - Evan Zahn, MD, FSCAI and Daniel Gruenstein, MD



“ISHAC has played a pivotal role in caring for babies in São Paulo. Recently, the last Hybrid procedure we did in that institution was so smooth that the patient was discharged from hospital on the 6th POD! You are a great part of the success we have had with the Hybrid approach. Thank you so much for teaching us how to save many Brazilian babies!”

**Best,
Renato Assad, Brazil**



**ISHAC: SEPTEMBER 2 - THURSDAY
AFTERNOON SESSION**

Other Hybrid Therapies - Moderators: Curt Daniels, MD and Alistair Phillips, MD

1:00-1:20 pm - Hybrid Approach in Adult Cardiac Surgery
- David Zhao, MD

1:20-1:40 pm - Current Therapy with Aortic Valves
- Ziyad M. Hijazi, MD, FSCAI

1:40-2:00 pm - Possibilities for Pulmonary Valves
- Philipp Bonhoeffer, MD, FSCAI

2:00-2:20 pm - Percutaneous Transapical Perivalve Leak Closure using CT Guidance - Carlos Ruiz, MD, FSCAI

2:20-2:40 pm - Possibilities in Fetal Cardiac and Pulmonary Interventions - Carlos Pedra, MD

2:40-3:00 pm - Discussion

3:00-3:15 pm - Break

3:15-4:00 pm - LIVE CASE

4:00-4:15 pm - How Should We Determine Reality from Fairytales in Evaluating Outcomes for New Therapies?
- William T. Mahle, MD

4:15-4:20 pm - Discussion

4:20-5:00 pm - Hybrid Nightmare Cases - Panel:
Mario Carminati, MD, FSCAI; Carlos Ruiz, MD, FSCAI; Richard G. Ohye, MD and Christopher Caldarone, MD

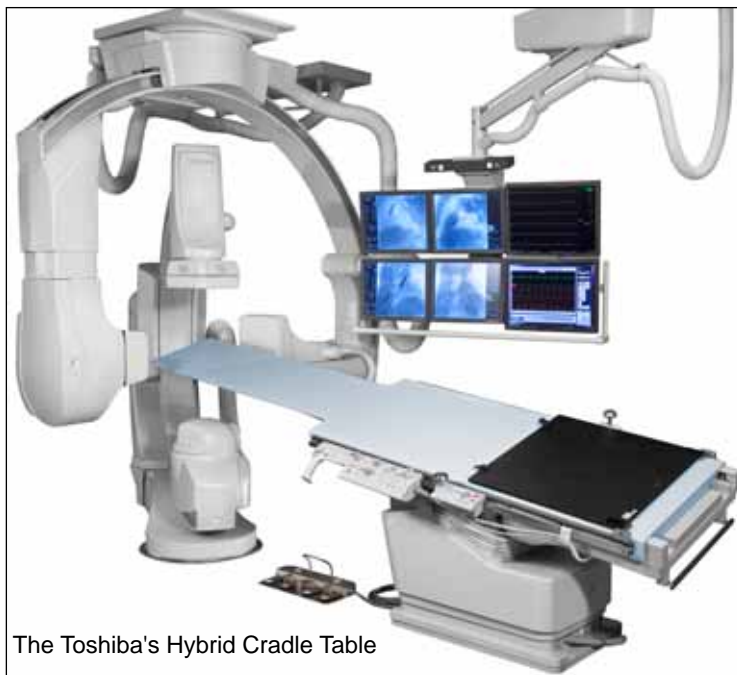
5:00-5:15 pm - Closing Remarks - John P. Cheatham, MD, FSCAI and Mark Galantowicz, MD, FSCAI

OPTIONAL - Ohio State Football Game - Experience Fall and the Spirit in the Big 10

6:30 pm - Buses Leave Hilton to OSU

8:00 pm - OSU v. Marshall

Buses return to Hilton after the game



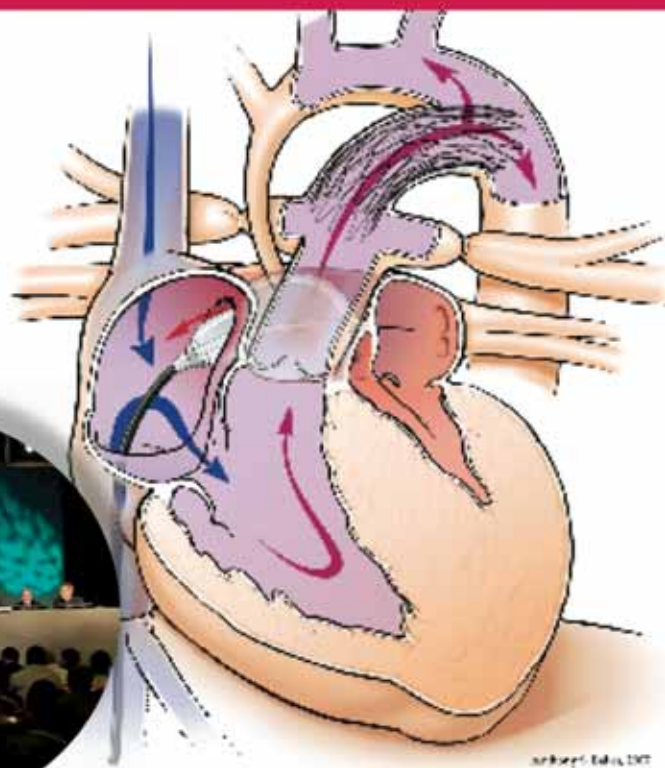
The Toshiba's Hybrid Cradle Table



ISHAC

International Symposium on the Hybrid
Approach to Congenital Heart Disease

NATIONWIDE
CHILDREN'S
HOSPITAL™



TWO PERSPECTIVES | SINGLE FOCUS.

The International Symposium on the Hybrid Approach to Congenital Heart Disease (**ISHAC**) is a unique forum focused on the latest clinical and research developments from around the world, exploring advancements in hybrid management strategies which combine surgical and transcatheter therapies in order to minimize the cumulative impact of treatment for complex congenital heart disease (CHD).

The 2 day **Symposium** features lectures and panel discussions from international pioneers in the field, as well as live case demonstrations and unique 1 day **Skills Workshops** providing hands-on experience performing Hybrid procedures. In the first four years, ISHAC has attracted faculty and participants from 34 states, 50 countries and 6 continents.

To learn more and to register for ISHAC, visit www.hybridsymposium.com

ISHAC 2010

AUGUST 31ST – SEPTEMBER 2ND

HILTON EASTON · COLUMBUS, OHIO

KEYNOTE SPEAKERS:

- Philipp Bonhoeffer, MD, FSCAI, Interventional Cardiologist, London, UK
- John G. Byrne, MD Surgeon-in-Chief, Vanderbilt Heart and Vascular Institute, Nashville, TN



“Thanks again for marvelous stay at Nationwide Children’s Hospital, Columbus, Ohio. We were really impressed observing your cathlab and OR activities, especially Hybrid procedures and transcatheter valve implantation. Since the visit we started our first Hybrid procedures in our institution, we performed two infant periventricular muscular-VSD closure with pretty good results. Our first patient was 9-months old girl with a history of coarctation repair and PA-banding due to multiple VSDs, that were finally closed periventricularly with 8 mm Amplatzer Muscular VSD Occluder via sternotomy. The second is an intact baby girl who received VSD Occluder implantation because of multi-VSDs, 6 kg 5 months, who is really the youngest and smallest child who underwent Hybrid procedure in Poland. We take the program really seriously while building our new center, and we expect to develop Hybrid team in the institution. The next 3 babies are listed as candidates to Hybrid VSD occlusion. We reached the license to Hybrid program from the Polish Ministry of Health. We are sure that this all would have not be possible without your contribution, so we highly appreciate your help.”



**Ireneusz Haponiuk
Maciej Chojnicki
Department of Pediatric Cardiac Surgery
Province Hospital of Gdansk, Poland**



ISHAC REGISTRATION INFORMATION

International Symposium on the Hybrid Approach to Congenital Heart Disease (ISHAC)
August 31-September 2, 2010
The Hilton Columbus, Columbus, OH USA

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

2010 Keynote Speakers - Philipp Bonhoeffer, MD, FSCAI and John G. Byrne, MD



Philipp Bonhoeffer, MD, FSCAI

Recipient of ETHICA Award
Grand Scientific Prize of Lefoulon-Delalande de L'Institute de France
Interventional Cardiologist
London, United Kingdom

Philipp Bonhoeffer, MD grew up in Germany, trained in medicine in Milan, Italy and specialized in Cardiology in Pavia. In 1996 he became the Director of the Catheterisation Laboratory at the Necker Hospital in Paris, France. In 2001 he moved to Great Ormond Street Hospital in London where he later became the Head of Cardiology and Professor of Cardiology at the Institute of Child Health at University College of London.

Early in his career Dr. Bonhoeffer showed interest in the strategic organisation of cardiology in developing countries, specifically in East Africa, where his interest in cardiovascular research led to the design of a cost effective catheter for the treatment of mitral stenosis (Multi-Track System). In 1999 he began a research program with the aim of replacing the pulmonary valve without open heart surgery. He performed the world's first human trans-catheter heart valve implantation in France in September 2000. In 2004 he founded, with Carlo Ruiz, the *Transcatheter Valve Symposium* which joined *EuroPCR* in 2007. In 2003 he was the winner of the ETHICA award shared with Prof. Alain Cribier. He was awarded the Grand Scientific Prize of Lefoulon-Delalande de L'Institute de France, which was shared with Prof. Francis Fontan in 2006. Dr. Bonhoeffer is also an accomplished concert musician who has played to audiences worldwide.

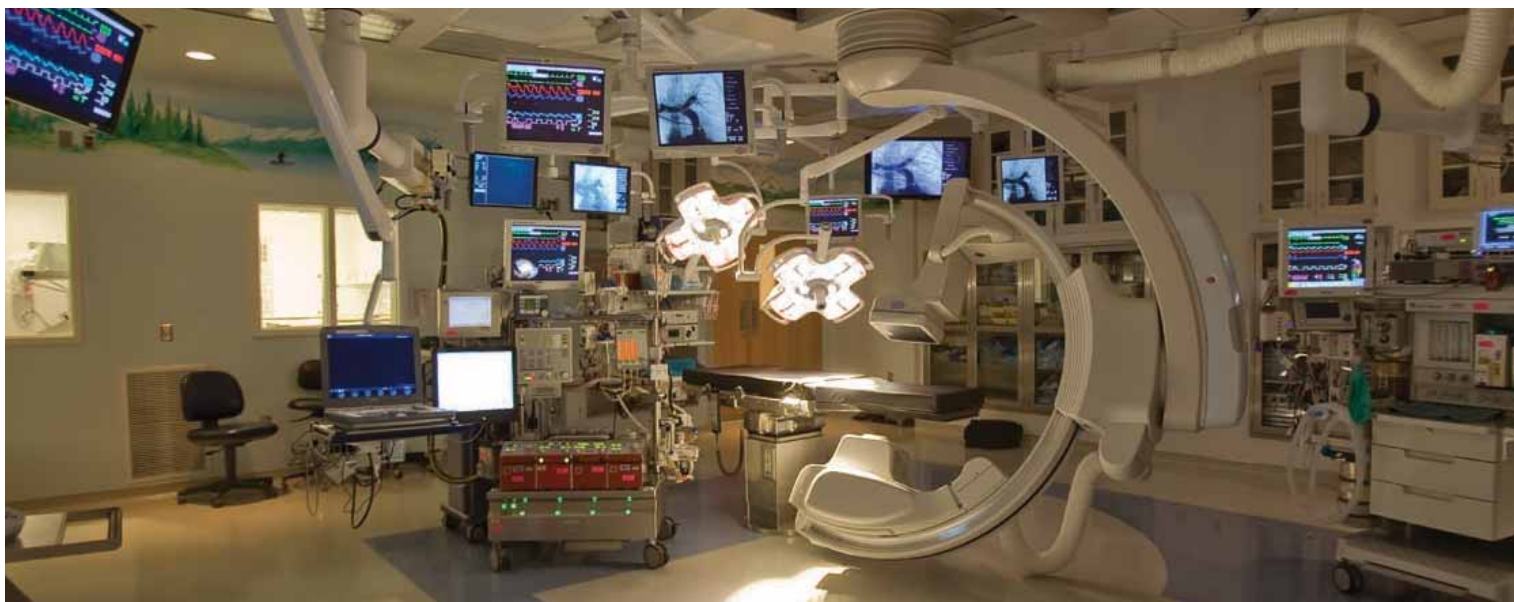


John G. Byrne, MD

William S. Stoney Professor and Chairman
Department of Cardiac Surgery
Professor of Medicine in Cardiology
Vanderbilt University School of Medicine
Surgeon-in-Chief
Vanderbilt Heart and Vascular Institute

John G. Byrne, MD is the William S. Stoney Professor and Chairman of the Department of Cardiac Surgery at Vanderbilt University in Nashville, Tennessee. He is also Professor of Medicine in Cardiology, and the Co-Director and Surgeon-in-Chief of the Vanderbilt Heart and Vascular Institute.

Before moving to Vanderbilt in 2004, he was Associate Chief and Residency Program Director in the Division of Cardiac Surgery at the Brigham & Women's Hospital and Associate Professor of Surgery at Harvard Medical School, Boston, MA. Dr. Byrne, a graduate of the University of California, Davis, received his medical degree in 1987 from Boston University. His postdoctoral training was completed at the University of Illinois in Chicago and the Brigham & Women's Hospital, Boston. Dr. Byrne is the author of more than 125 peer-reviewed articles in cardiac surgery and related areas. He serves on the editorial board of the *Journal of Thoracic and Cardiovascular Surgery* and is a guest examiner of the American Board of Thoracic Surgery. He is board certified in general and cardiothoracic surgery. His clinical interests include aortic root surgery, valve surgery, and Hybrid procedures. With his colleagues in cardiology Dr. Byrne developed the Hybrid operating room and together built the heart program, which now performs over 2000 major cardiac surgical procedures per year, including the adult and congenital programs.



International Tail Gate Extravaganza - Calling all Sports Fans....

The 2010 International Tail Gate Extravaganza will take place on Wednesday, September 1st at the Party Barn 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. Guests will be welcomed with cocktails, and some of the finest tail gate fare Columbus has to offer. Sports attire is encouraged!

On Thursday, September 2, 2010, 8 pm, attend The Ohio State University Buckeyes' Football Game against Marshall University.

Tickets for the game are first come, first served. If you do not receive a ticket, a refund will be issued.



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“We did a periventricular VSD closure very smoothly in a 45-day old infant stuck on an HF ventilator. The Infant had a 9 mm mid-muscular VSD and a CoA. I did the VSD with Simone guiding me with superb pictures on TEE and the surgeon did the CoA. The kid has just been extubated! Very impressive. Again, this wouldn’t have been possible if you guys hadn’t given us so much support!”

***Best,
Carlos Pedra, Brazil***

**Brief Statement for:
Melody® Transcatheter Pulmonary Valve
Ensemble® Transcatheter Valve
Delivery System**

The Melody TPV is indicated for use as an adjunct to surgery in the management of pediatric and adult patients with the following clinical conditions:

- Existence of a full (circumferential) RVOT conduit that was equal to or greater than 16 mm in diameter when originally implanted and
- Dysfunctional RVOT conduits with a clinical indication for intervention, and either:
 - regurgitation: \geq moderate regurgitation, or
 - stenosis: mean RVOT gradient \geq 35 mm Hg

Contraindications: None known.

Warnings/Precautions/Side Effects:

- **DO NOT implant in the aortic or mitral position. Preclinical bench testing of the Melody valve function and durability will be extremely limited when used in these locations.**
- DO NOT use if patient's anatomy precludes introduction of the valve, if the venous anatomy cannot accommodate a 22-Fr size introducer, or if there is significant obstruction of the central veins.
- DO NOT use if there are clinical or biological signs of infection including active endocarditis.
- Assessment of the coronary artery anatomy for the risk of coronary artery compression should be performed in all patients prior to deployment of the TPV.
- To minimize the risk of conduit rupture, do not use a balloon with a diameter greater than 110% of the nominal diameter (original implant size) of the conduit for pre-dilation of the intended site of deployment, or for deployment of the TPV.
- The potential for stent fracture should be considered in all patients who undergo TPV placement. Radiographic assessment of the stent with chest radiography or fluoroscopy should be included in the routine postoperative evaluation of patients who receive a TPV.
- If a stent fracture is detected, continued monitoring of the stent should be performed in conjunction with clinically appropriate hemodynamic assessment. In patients with stent fracture and significant associated RVOT obstruction or regurgitation, reintervention should be considered in accordance with usual clinical practice.

Potential procedural complications that may result from implantation of the Melody device include the following: rupture of the RVOT conduit, compression of a coronary artery, perforation of a major blood vessel, embolization or migration of the device, perforation of a heart chamber, arrhythmias, allergic reaction to contrast media, cerebrovascular events (TIA, CVA), infection/sepsis, fever, hematoma, radiation-induced erythema, pain at the catheterization site.

Potential device-related adverse events that may occur following device implantation include the following: stent fracture resulting in recurrent obstruction, endocarditis, embolization or migration of the device, valvular dysfunction (stenosis or regurgitation), paravalvular leak, valvular thrombosis, pulmonary thromboembolism, hemolysis.

For additional information, please refer to the Instructions for Use provided with the product.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician.

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Medtronic

Melody® TPV Receives FDA HDE Approval

Melody® Transcatheter
Pulmonary Valve (TPV) Therapy:
A revolutionary, non-surgical
option for children and adults
with RVOT conduit dysfunction.

www.Melody-TPV.com

Humanitarian Device.

Authorized by Federal law (USA) for use in pediatric and adult patients with a regurgitant or stenotic Right Ventricular Outflow Tract (RVOT) conduit (\geq 16 mm in diameter when originally implanted). The effectiveness of this device for this use has not been demonstrated.

Hope, Restored.



TINY HEARTS INSPIRED HYBRID LABS WITH ACCESS FOR BIG TEAMS.

Fixing a heart from birth through adulthood takes big teams working together. So we examined the needs of leading clinicians when designing our hybrid solutions. The result: our Infinix™-i with 5-axis positioners and low profile detectors, stays out of the way, but right where needed, providing the best possible access to patients. To lead, you must first listen.

medical.toshiba.com

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Leading Innovation >>>