

# CONGENITAL CARDIOLOGY TODAY

News and Information for Pediatric and Congenital Cardiovascular Physicians and Surgeons

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## SPECIAL PICS 2006 EDITION

### WELCOME TO PEDIATRIC & ADULT INTERVENTIONAL THERAPIES FOR CONGENITAL & VALVULAR HEART DISEASE (PICS-2006) WITH LIVE CASE DEMONSTRATIONS



Dear Colleagues:

In this special issue of Congenital Cardiology Today, I would like to welcome you to Las Vegas and PICS 2006. "The Pediatric & Adult Interventional Therapies for Congenital & Valvular Heart Disease" (PICS-2006) will feature didactic lectures from the world experts in their fields and will feature live case demonstrations from multiple international venues. The meeting, thus far, is the most comprehensive ever with the largest number of faculty with over 100 of the best in the world meeting in Las Vegas to update you on the most current aspects of this fascinating field. I'm confident that it will meet your desire and expectations.

The meeting will start on Sunday morning with an industry-sponsored symposium. AGA Medical Corporation will have its annual international meeting. It is expected that this year, they'll have over 400 attendees from around the world. They have prepared a comprehensive symposium featuring different lectures and case presentations. If you are interested in attending this meeting, you need to pre-register through AGA Medical Corporation's office (Tel: 888-546-4407 or 763-513-9227).

The official PICS meeting starts around 1:00 PM on Sunday, September 10th, 2006 by a comprehensive workshop on ASD's and PFO's. This workshop will feature topics related to ASD and PFO closure using different devices (Amplatzer devices, NMT devices, WL Gore Helex, St. Jude Premere device, Cierra PFX, Sutura technique and

Cardia Intrasept device) and discuss different imaging and monitoring techniques for and during closure of ASD and PFO (AcuNav for ICE and TCD for detection of right-to-left shunt). The workshop will be approximately five hours long with a break in the middle. In addition, and simultaneously with this, there will be oral abstract presentation sessions: two for Congenital/Pediatric and one for Structural/Valvular Heart Disease. These sessions will be followed by "Meet the Expert" sessions: two for the Congenital/Pediatric and one for the Structural/Valvular Heart Disease.

At 7:00 PM we will have our usual welcome reception at the Exhibit area where



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Learn more about  
**TCD-based  
protocols for  
PFO screening**

**PICS 2006**

**Sunday, September 10  
1-6 PM**

**Comprehensive Workshop  
on PFO/ASD Closure  
in Adults & Children**

Moderators: Ziyad Hijazi, Shigeyuki Echigo,  
Carlos Ruiz, Paul Kramer and Jeff Frank

**Tuesday, September 12  
2:45-6:30 PM**

**PFO and ASD Closure in the Adult**

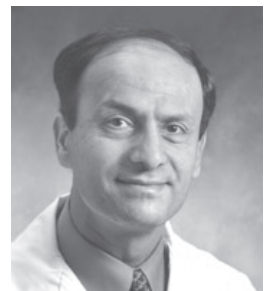
Moderators: Mark Reisman,  
Antonio Colombo and Robert Sommer



**Don't let another  
PFO slip away.**



**"TCD has changed the way  
in which I view my closures."  
—Ziyad M. Hijazi, M.D., M.P.H.**



*And visit the Terumo exhibit  
to see the new PMD150  
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**PICS 2006 Course Directors**

**Ziyad M. Hijazi, MD, MPH**

George M. Eisenberg, Professor of Pediatrics & Medicine  
Staff Cardiologist, Section of Pediatric Cardiology  
The University of Chicago Hospitals  
Chicago, IL

**William E. Hellenbrand, MD**

Professor of Pediatrics  
Director, Cardiac Catheterization Laboratory.  
The Children's Hospital of New York-Presbyterian  
New York, NY

**Martin B. Leon, MD**

Professor of Medicine  
Columbia University Medical Center  
Chairman, Cardiovascular Research Foundation  
New York, NY

**Gregg Stone, MD**

Professor of Medicine  
Columbia University Medical Center  
Vice-Chairman, Cardiovascular Research Foundation  
New York, NY

**Ted Feldman, MD**

Professor of Medicine  
Director, Cardiac Catheterization Laboratories  
Evanston Northwestern Hospital  
Evanston, IL

**Peter Block, MD**

Director, Interventional Cardiology  
Emory University  
Atlanta, GA

we will serve appetizers, light refreshments and drinks.

**Monday September 11th, 2006** will be the first full day of PICS. On that day, pediatric and adult cardiologists caring for patients with Congenital Heart Disease will convene in one arena for didactic sessions and live case demonstrations. Among the speakers that day are: Howard Herrmann and David Nykanen, who will discuss the art of trans-septal puncture techniques; Bill Hellenbrand will discuss everything you need to know about Coarctation Stenting (technique, equipment, outcomes, complications). Then there will be a comprehensive session on the RVOT and the Pulmonic Valve. This session will feature echocardiographic assessment by Charlie Kleinman, CT/MR evaluation by Dianna Bardo, when to medicate or operate by Jim Wilkinson,

Stenting of the RVOT by Kevin Walsh. Philipp Bonhoeffer and I will discuss the Percutaneous Pulmonary Valves available. The last session of the day will feature two speakers (Ted Feldman and Mike Landzberg) who will discuss "How to Build a Successful Adult Congenital and Valvular Interventional Program."

The Live Case demonstrations on Monday will come to you from Europe, Canada and Brazil: Mario Carminati from Milan and Horst Sievert from Frankfurt; Lee Benson and Erik Horlick from Toronto, Canada and Carlos Pedra from Sao Paulo, Brazil. You'll see different live cases from coarctation stenting to percutaneous pulmonary valve implantation to ASD, etc.

During these live case demonstrations, attendees will have the opportunity to directly interact with the operators of the cases.

Monday will also feature the *PICS Life Time Achievement Award!* As usual, we keep this as a secret to surprise the recipient! However, I can assure you that our committee has selected the person who best deserves this prestigious award.

**Tuesday September 12th, 2006** will feature two separate arenas simultaneously: A Pediatric and an Adult arena.

**The Pediatric Arena** will feature many didactic sessions and live cases. Among the topics to be covered are: stents and everything you need to know (Felix Berger will talk about what is available out there; Frank Ing will talk about what equipment is needed to achieve a successful stenting procedure; Chuck Mullins will talk about stenting of the pulmonary arteries; Evan Zahn will talk about stenting of systemic and pulmonary veins, and David Bichell will talk about how to deal with stents in the OR.

Another session that day will cover ASD Device Closure. In this session, Charlie Kleinman will talk about Echocardiographic Evaluation in Children and Adults; Larry Latson will discuss the Helix Device and Jozef Masura will discuss the Amplatzer Device.

**Sunday Combined Pediatric and Adult Sessions**

**6:00 PM—Registration**

**9:00 - 12:00 PM—AGA Sponsored Symposium**

**1:00 - 4:00 PM—Oral Abstract sessions**  
Moderators Congenital - Room 1: James Wilkinson, Kevin Walsh, Wolfgang Radtke

Moderators Congenital - Room 2: PS Rao, Hideshi Tomita, Carlos Zabal

Moderators Valvular/Structural - Room 3: Gregg Stone, Eustaquio Onorato, Allan Schwartz

**1:00 - 6:00 PM—Comprehensive Workshop on PFO/ASD Closure in Adults & Children**  
Moderators: Ziyad M. Hijazi, Shigeyuki Echigo, Carlos Ruiz, and Paul Kramer

**4:30 - 6:00 PM—Meet the Experts**  
Moderators Congenital - Room 1: Horacio Faella, Mike Tynan, Thomas Jones

Moderators Congenital - Room 2: Luigi Ballerini, Zahid Amin, Shak Qureshi

Moderators Valvular/Structural - Room 3: Ted Feldman, Martin Leon, Peter Block

**6:00 - 7:00 PM—Welcome Reception/ Exhibits Open**

**7:00 - 9:00 PM—Industry Sponsored Workshops and Investigator Meetings**

PDA closure will also be discussed that day. Krishna Kumar will talk about Evaluation and Technical Difficulties with Large PDA's and Neil Wilson will talk about Catheter Closure of the PDA in Premies!

Towards the end of the day, there will be two talks: one on How to Design Appropriate Device Trials for patients with CHD by Donna Buckley and last, but not least the first debate of the meeting: Balloon Angioplasty for Coarctation of the Aorta. Emile Bacha will say it is not effective, while Evan Zahn of course will say it is!

In addition to these sessions in the Main Pediatric Arena, there will be some Breakout Sessions for Technicians and Nurses and anybody interested in the topics to be covered: The first Breakout Session will cover the topic of "Adults with CHD." In this session, Mike Landzberg will talk about "Doing Intervention in Adults with CHD in Free Standing Children's



### Monday Morning Combined Pediatric and Adult Sessions

Moderators: *Ted Feldman, Ziyad M. Hijazi and Gregg Stone*

**6:30 - 7:45 AM—Continental Breakfast - Visit Exhibits**

**7:45 - 8:00 AM—Welcome and Course Overview:** *Ziyad M. Hijazi*

**8:00 - 10:00 AM—Live Cases: Milan, Frankfurt, Sao Paulo and Toronto General Hospital**

Discussants: *BG Alekyan, Zahid Amin, Donald Baim, Campbell Rogers and John W. Moore*

**10:00 - 10:30 AM—Coffee Break - Visit Exhibits**

**10:30 - 11:45 AM—Techniques and Controversies**

**10:30 - 11:05 AM—Trans-septal Puncture: Equipment Essentials and Basic Techniques:**

*Howard Herrmann and David Nykanen*

**11:10 - 11:40 AM—Coarctation Stenting: Operator Technique, Equipment, Complications,**

**and Clinical Outcomes:** *William Hellenbrand*

**11:45 - 12:45 PM—Live Cases: Milan & Frankfurt**

Discussants: *Teiji Akagi, Mazeni Alwi, David Holmes and Paul Kramer*

**12:45 - 2:00 PM—Lunchtime Hot Topics (3 simultaneous sessions in pediatric, adult congenital and valvular heart disease)**

### Monday Afternoon Combined Pediatric and Adult Sessions

Moderators: *Peter Block, William Hellenbrand, and Martin Leon*

**2:00 - 3:30 PM—Live Cases: Sao Paulo and Toronto General Hospital**

Discussants: *Bharat Dalvi, Thomas Jones, Mark Reisman and Jonathan Tobis*

**3:30 - 5:05 PM—Focus on the RVOT and the Pulmonic Valve**

**3:30 - 3:45 PM—Echocardiographic Assessment of the RVOT and the Pulmonic Valve:**

*Charles S. Kleinman*

**3:45 - 4:00 PM—MRI/CT Assessment of the RVOT for Percutaneous Valve Therapy:** *Dianna*

*Bardo*

**4:00 - 4:15 PM—When to Operate and When to Follow-up Medically:** *James Wilkinson*

**4:15 - 4:30 PM—Stenting the RVOT: When, How, and Results:** *Kevin Walsh*

**4:30 - 4:45 PM—The Medtronic Bonhoeffer Valve: Technical Aspects & Update on Clinical**

**Results:** *Philipp Bonhoeffer*

**4:45 - 5:00 PM—Update on the Edwards Pulmonic Valve:** *Ziyad M. Hijazi*

**5:05 - 5:35 PM—Featured Lecture: Perspectives in Developing a Successful Adult Congenital**

**& Valvular Interventional Program: Training Requirements, Practice Dynamics and**

**Academics Imperatives:** *Ted Feldman and Michael Landzberg*

**5:35 PM—PICS Achievement Award**

**6:00 - 8:00 PM—Industry Sponsored Workshop**

Hospitals;" Stephen Cook will talk about "Prescreening and Imaging of the Adult with CHD prior to Cardiac Catheterization with Intervention;" Elizabeth Sparks will talk about "Expectations and Guidelines when managing Adults with CHD at a Free Standing Children's Hospital" and Russell D'Sa will talk about "The Importance of Adult Trained Regis-

tered Cardiovascular Invasive Specialists (RCIS) in Successful Interventional Procedures in Adults with CHD".

In addition to this, during lunch there will be two simultaneous sessions: My Nightmare Case in the Cath Lab. This is a hot and popular session. We ask you to bring 1-2 cases with you and we always give an award for the best case. The other session will be featur-

ing Fetal Intervention: Wayne Tworetzky will give two talks (How to Start a Program in Fetal Cardiac Intervention and Techniques for Aortic Valvuloplasty and IAS Dilation) and Achi Ludomirsky will update us on The Therapeutic Ultrasound Applications in The Fetus.

For live case transmissions to the Pediatric Arena, four centers will be doing this: Toronto Sick Kids where Lee Benson will demonstrate a Fontan Completion in the Cath Lab; Zahid Amin from Omaha, John Cheatham from Columbus and Ziyad Hijazi from Chicago will feature interesting cases.

**The Adult Arena** will be probably even busier with sessions and live case demonstrations. The Aortic Valve will be the focus of attention most of the day.

Bob Bonow will talk about "When to Operate or Medicate on the Aortic Valve and discuss the recent ACC/AHA Guidelines; Michael Mack will talk about "High Risk Patients Subsets who Might Benefit from Interventional Therapy;" Allan Stewart will talk about "Minimally Invasive Surgical Approaches For Aortic Valve Disease;" Ted Feldman will revisit "Balloon Valvuloplasty;" Marty Leon will give an "Overview of New Percutaneous Aortic Valve Therapies".

The first debate in the Adult Arena will feature Hartzell Schaff and Jeff Moses debating "Interventional Therapy for the Aortic valve." This is promised to be a lively debate!

The Luncheon Session will feature speakers: A Pioneer's Perspective on Percutaneous Aortic Valve Therapy and Future Directions given by Alain Cribier; Then John Webb, George Hanzel and Eberhard Grube will present their experience and results of Percutaneous Aortic Valve Implantation: The Cribier Edwards Valve (OUS by Webb and US by Hanzel) and the CoreValve by Grube.

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## Tuesday Morning Pediatric Sessions

**Congenital Heart Disease**

**Moderators:** William E. Hellenbrand, Emile Bacha, Charles Mullins

**6:30 - 7:45 AM—Continental Breakfast - Visit Exhibits****8:00 - 10:30 AM—Live Cases: Toronto Sick Kids, Columbus Children's, & Omaha Children's**

**Discussants:** Teiji Akagi, Mazeni Alwi, David Balzer, John Bass and Felix Berger

**10:30 - 11:00 AM—Coffee Break/Visit Exhibits****11:00 -11:30 AM—Stents - Part I**

**What is Available Out There!:** Felix Berger

**What is Needed (Equipment) to Achieve a Successful Stent Procedure:** Frank Ing**11:30 - 12:30 PM—Live Cases: Columbus Children's & Omaha Children's**

**Discussants:** Redmond Burke, Chen Chan, Bharat Dalvi, Cesar Esteves, and Wei Gao

**12:30 - 2:00 PM—Luncheon Session: My Nightmare Case in the Cath Lab**

**Moderators:** Neil Wilson & Michael Mullen

**Parallel Luncheon Session: Update on Fetal Intervention**

**Moderators:** Shak Qureshi & Charles S. Kleinman

**12:30 - 1:00 PM—How to Start a Program? - Wayne Tworetzky****1:00 - 1:30 PM—Technique for Aortic Valvuloplasty and IAS Dilation:** Wayne Tworetzky**1:30 - 2:00 PM—Ultrasound Therapeutic Applications in Fetuses:** Achi Ludomirsky

## Tuesday Afternoon Pediatric Sessions

**Congenital Heart Disease**

**Moderators:** Mike Tynan, Lee Benson and Carlos Ruiz

**2:00 - 3:15 PM—Live Cases: University of Chicago & Omaha Children's**

**Discussants:** Jo De Giovanni, Makram Ebeid, Horacio Faella, Thomas Forbes and Miguel Granja

**3:15 - 3:30 PM—Stenting Pulmonary Arteries: Techniques of Stent Delivery:** Charles Mullins**3:30 - 3:45 PM—2. Stenting Systemic & Pulmonary Veins:** Evan Zahn**3:45 - 4:00 PM—3. How to Deal with Stents in the OR?:** David Bichell**3:30 - 5:00 PM—Breakout Session: Adult CHD (Nurses, Cath Lab Techs, and Perusionists)**

**Moderators:** Thomas Forbes, David Nykanen

**Can Interventional Therapy in Adults With CHD be Performed Safely in a Free Standing Children's Hospital?**

**Speaker:** Michael Landzberg, MD, Boston Children's Hospital

**Prescreening and Imaging of the Adult With CHD Prior to Cardiac Catheterization With Intervention**

**Speaker:** Stephen Cook, MD, Columbus Children's Hospital and The Ohio State University Medical Center

**Management of Adults with CHD at a Free Standing Children's Hospital: Expectations & Guidelines**

**Speaker:** Elizabeth Sparks, MSN, CNP, Coordinator, Adolescent & Adult CHD Program, Columbus Children's Hospital and The Ohio State University Medical Center

**Are Adult Trained Registered Cardiovascular Invasive Specialists (RCIS) Important for Successful Interventional Procedures in Adults with CHD?**

**Speaker:** Russell D'Sa, RCIS Inova Hospital, Fairfax, VA

**4:00 - 4:15 PM—Echocardiographic Evaluation in Children & Adults:** Charles S. Kleinman**4:15 - 4:30 PM—The Helex Device: Techniques, Results & Complications:** Larry Latson**4:30 - 4:45 PM—The Amplatzer Device: Techniques, Results & Complications:** Jozef Masura**4:45 - 5:00 PM—The Intrasept Device: Techniques, Results, & Complications:** TBD**5:00 - 5:12 PM—Evaluation, Technical Difficulties with Large PDA's:** Krishna Kumar**5:12 - 5:25 PM—Catheter Closure of PDA's in Premies, Yes Premies:** Neil Wilson**5:25 - 5:45 PM—How Do We Design Appropriate Device Trials in Children with Congenital Heart Disease?:** Donna Buckley**5:45 - 6:15 PM—Debate #1—Balloon Angioplasty for Coarctation of the Aorta in Children is Not Effective and Should Not be Done: Pro - Emile Bacha; Con - Evan Zahn****6:15 PM—Adjourn**

Then Craig Smith will talk about "The Surgeon's Role in Percutaneous Aortic Valve Therapy." This is followed by Julie Swain representing the FDA and she will discuss "How to Design Appropriate Clinical Trials for Percutaneous Valve Therapy!"

There will be a round table discussion at the end to discuss "The Next Generation Percutaneous Aortic Valve Therapies." This will include representation from the Industry and Physicians.

The afternoon session for the Adult Arena will focus again on PFO and ASD Closure in Adult. John Carroll will talk about Assisted Imaging Techniques for PFO & ASD Closure (TEE, ICE, TCD); Bob Sommer will discuss the Basics of PFO Closure; Mark Reisman will talk about PFO & Migraines; Jon Tobis will talk about PFO & Strokes; Jose Suarez de Lezo will talk about ASD Closure and last but not least Horst Sievert will talk about New PFO and ASD Closure Devices/Methods.

The second debate of the day will be of course lively and of interest to all: PFO Closure in Patients with Stroke. Here Shunichi Homma will debate Paul Kramer.

Live cases Tuesday coming to the Adult Arena from Vancouver by John Webb who will perform Percutaneous Aortic Valve Implantation using the Cribier Edwards valve, a case of Percutaneous Mitral Valve Repair Using the MONARC System and a 3rd Congenital case. I will transmit two cases from Chicago

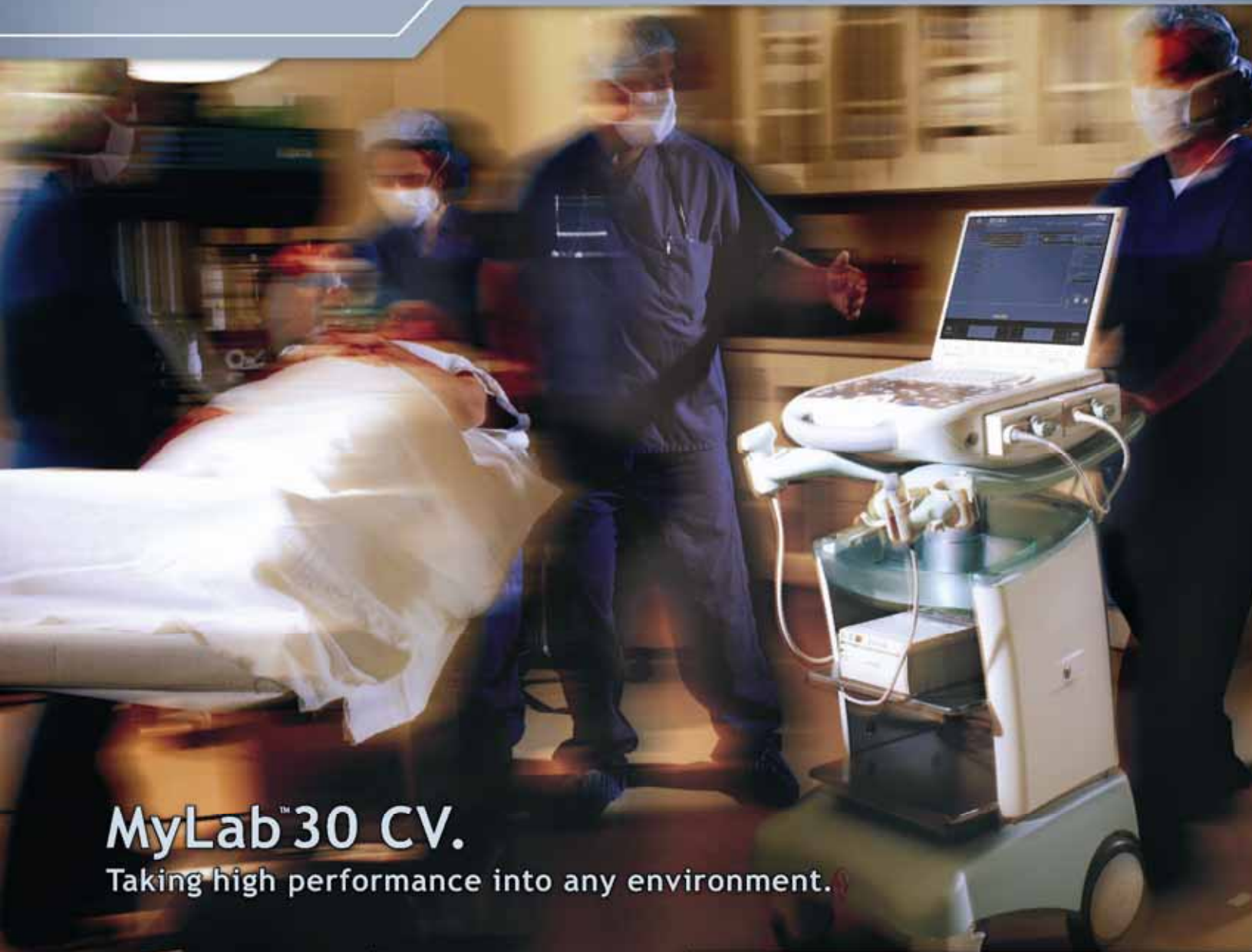
featuring adult congenital interventional therapies! Most likely an ASD and a case of PDA closure.

**Wednesday September 13th, 2006** is the last day of PICS, and again this is promised to be as busy as the day before.

The Pediatric Arena will feature The Hybrid Symposium. John Cheatham will talk about "How to Start a Hybrid Pro-

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### Tuesday Morning Adult Sessions

#### 6:30 - 7:45 AM—Continental Breakfast - Visit Exhibits

7:45 - 8:00 AM—Welcome and Course Overview: *Peter Block, Ted Feldman, Martin Leon and Gregg Stone*

#### Aortic Valve Disease in the Adult

*Moderators: Peter Block, Martin Leon, and Craig Smith*

8:00 - 8:15 AM—When to Medicate or Operate: Guidelines for Medical and Surgical Management of the Aortic Valve Disease: *Robert Bonow*

8:15 - 8:30 AM—"High Risk" Patient Subsets with Aortic Valve Disease Who Might Benefit from Interventional Therapies—*Michael Mack*

8:30 - 10:00 AM—Live cases: University of Chicago & St. Paul's Hospital

*Discussants: Robert Bonow, Alain Cribier, Allan Stewart and Michael Mack*

10:00 - 10:20 AM—Minimally Invasive Surgical Approaches for Aortic Valve Disease—*Allan Stewart*

10:20 - 10:40 AM—Revisiting Balloon Aortic Valvuloplasty: Underutilized and Neglected? - *Ted Feldman*

10:40 - 11:00 AM—Overview of New Percutaneous Aortic Valve Therapies: *Martin Leon*

11:00 - 11:30 AM—Debate #1—Interventional Aortic Valve Therapy for Aortic Stenosis is Unnecessary and Dangerous!: **Pro** - *Hartzell Schaff*; **Con** - *Jeffrey Moses*

11:30 - 12:30 PM—Live Cases: University of Chicago & St. Paul's Hospital

*Discussants: Jeffrey Moses, George Hanzel and Hartzel Schaff*

12:30 - 2:30 PM—Luncheon Session: Clinical Experience with Percutaneous Aortic Valve Therapies

*Moderators: Peter Block, Alain Cribier, Martin Leon and Craig Smith*

12:45 - 1:00 PM—Featured Lecture: A Pioneer's Perspective on Percutaneous Aortic Valve Therapy-Future Directions: *Alain Cribier*

1:00 - 1:15 PM - The Cribier- Edwards PHV percutaneous Aortic Valve Program-OUS Experience-Retrograde Approach: *John Webb*

1:15 - 1:30 PM -The Cribier- Edwards PHV percutaneous Aortic Valve Program-US Experience: *George Hanzel*

1:30 - 1:45 PM—The CoreValve Percutaneous Aortic Valve Program: *Eberhard Grube*

1:45 - 2:00 PM—The "Surgeon's Role" in Percutaneous Aortic Valve Therapy-Passive Observer or Active Participant: *Craig Smith*

2:00 - 2:15 PM—Designing the Appropriate Clinical Trials-The FDA Regulatory Strategy: *Julie Swain*

2:15 - 2:45 PM—Roundtable New Technology Discussion: Next Generation Percutaneous Aortic Valve Therapies

*Moderators: Peter Block, Martin Leon and Gregg Stone*

*Discussants: Larry Wood, Amr Salahieh and Jacques Seguin*

gram"; Mark Galantowicz will share with us his program's experience in HLHS!

The Luncheon Session will focus on Critical Aortic Valve Stenosis Beyond Fetal Life. Norm Silverman will talk about Echocardiographic Assessment; Gil Wernovsky will talk about ICU management; Shak Qureshi will talk about Catheter Management and Redmond Burke will talk about Surgical Management!

In the afternoon, the second part of

the Hybrid Symposium will continue. Here the focus will be on Muscular VSD's by Emile Bacha and Intra-operative Stenting by David Bichell.

A comprehensive session on VSD's will feature Norm Silverman talking about Echocardiographic Evaluation; Percutaneous Closure of PmVSD by John Bass; Percutaneous Closure of Muscular VSD by Basil Thanapolous and TP Le will talk about closing VSD's with the Nit Occlud. At the con-

clusion of this session, Redmond Burke and Joaquim Miro will debate each other about PmVSD Closure....again promising to be a lively debate.

Larry Latson then will discuss Everything You Need to Know about Cutting Balloons and finally, Lee Benson will Discuss Fontan Completion in The Catheterization Laboratory.

In Addition to these sessions, there will be also a breakout session that day focusing on the Sick Neonate and Infant with CHD. This will feature Evan Zahn talking about catheterization and Intervention in the Critically Ill Neonate...ECMO, Postop & Beyond; Vince Olshove will talk about "Perfusion Modifications for Cardiac Catheterization While on ECMO; I will speak on Device Closure in The Neonate and Small Infant and Sharon Hill will talk about Premounted Stents and Hybrid Procedures to Palliate Critically Ill Neonates.

Live Cases coming to the Pediatric Arena from Seattle and St. Louis where Tom Jones and David Balzer will perform variety of interventions.

The Adult Arena will be as busy on Wednesday. The focus will be mainly on the Mitral Valve.

Allan Schwartz will talk about "When to Operate and When to Medicate for Mitral Valve Disease: Recent Guidelines of ACC/AHA; Roberto Lang will talk about the Role of Echocardiography (Specifically 3D) in Characterizing Mitral valve Regurgitation and in Guiding Interventional Therapy; Marc Gillinov will talk about Surgical Approaches and Rationale for Mitral Valve Repair Procedures; Francesco Maisano will discuss the Double orifice Procedure for Mitral Valve Regurgitation; Steve Bolling will talk about Controversies in Surgical Treatment of Functional or Ischemic MR. This will be followed by Balloon Mitral Valvuloplasty by Igor Palacios and Howard Herrmann will talk about the New Percutaneous Mitral Valve Therapies for MR. Then Gregg Stone will have the

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Visit the Gore Booth #6



Sunday, September 10, 2006

2:15 pm - 2:30 pm

*A Talk: Practical, Clinical Success in PFO Device Closure using the GORE HELEX Septal Occluder*  
Joseph DeGiovanni, MD

4:15 pm - 4:30 pm

*A Talk: Practical, Clinical Success in ASD Device Closure using the GORE HELEX Septal Occluder*  
Thomas Jones, MD

Monday, September 11, 2006

Watch for this!

*A Live ASD Case*

*with the GORE HELEX Septal Occluder*

Carlos Pedra, MD

Instituto Dante Pazzanese de Cardiologia  
Sao Paulo, Brazil

Watch for this!

*A Live PFO Case*

*with the GORE HELEX Septal Occluder*

Horst Sievert, MD

Cardio Vascular Center  
Frankfurt, Germany

Tuesday, September 12, 2006

4:15 pm - 4:30 pm

*A Talk: The GORE HELEX Septal Occluder: Techniques, Results and Complications*  
Geoffrey K. Lane, MD

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Tuesday Afternoon Adult Sessions

**PFO and ASD Closure in the Adult**

Moderators: Mark Reisman, Antonio Colombo and Robert Sommer

**2:45 - 4:00 PM—Live Cases: St. Paul's Hospital**

Discussants: John Carroll, Antonio Colombo, Paul Kramer, Mark Reisman, Horst Sievert, Robert Sommer and Jonathan Tobis

**3:30 - 5:00 PM—Breakout Session: Adult CHD (Nurses, Cath Lab Techs, and Perusionists)**

Moderators: Thomas Forbes and David Nykanen

**Can Interventional Therapy in Adults With CHD be Performed Safely in a Free Standing Children's Hospital?**

Speaker: Michael Landzberg, MD, Boston Children's Hospital

**Prescreening and Imaging of the Adult With CHD Prior to Cardiac Catheterization With Intervention**

Speaker: Stephen Cook, MD, Columbus Children's Hospital & The Ohio State University Medical Center

**Management of Adults with CHD at a Free Standing Children's Hospital: Expectations Guidelines**

Speaker: Elizabeth Sparks, MSN, CNP Coordinator, Adolescent & Adult CHD Program, Columbus Children's Hospital and The Ohio State University Medical Center

**Are Adult Trained Registered Cardiovascular Invasive Specialists (RCIS) Important for Successful Interventional Procedures in Adults with CHD?**

Speaker: Russell D'Sa, RCIS Inova Hospital, Fairfax, VA

**4:00 - 4:15 PM—The Use of Assisted Imaging Techniques for PFO & ASD Closure (TEE, ICE, and TCD):** John Carroll

**4:15 - 4:30 PM—The Basics of PFO Closure: Tips and Tricks:** Robert Sommer

**4:30 - 4:45 PM—PFO & Migraines:** Mark Reisman

**4:45 - 5:00 PM—Strokes and PFO Closure: Associations, Guidelines, and Clinical Outcomes:** Jonathan Tobis

**5:00 - 5:15 PM—ASD Closure: Indications, Techniques, and Clinical Outcomes:** Jose Suarez de Lezo

**5:15 - 5:30 PM—New PFO and ASD Closure Devices: Are There Substantive Differences?:** Horst Sievert

**5:30 - 6:10 PM—Debate #2**

**All Patients with PFO and Stroke Should be Randomized in a Clinical Trial!:** Pro - Gregg Stone; Con - Paul Kramer

**6:30 PM—Adjourn**

Tuesday Breakout—Adult CHD

**3:30-5:00—Adult CHD**

Moderators: Thomas Forbes, David Nykanen

**Can Interventional Therapy in Adults With CHD be Performed Safely in a Free Standing Children's Hospital?**

Speaker: Michael Landzberg, MD, Boston Children's Hospital

**Prescreening and Imaging of the Adult With CHD Prior to Cardiac Catheterization With Intervention**

Speaker: Stephen Cook, MD, Columbus Children's Hospital and The Ohio State University Medical Center

**Management of Adults with CHD at a Free Standing Children's Hospital: Expectations & Guidelines**

Speaker: Elizabeth Sparks, MSN, CNP, Coordinator, Adolescent and Adult CHD Program, Columbus Children's Hospital and The Ohio State University Medical Center

**Are Adult Trained Registered Cardiovascular Invasive Specialists (RCIS) Important for Successful Interventional Procedures in Adults with CHD?**

Speaker: Russell D'Sa, RCIS Inova Hospital, Fairfax, VA

ous management of the Adult with PDA; Roberto Lang will talk about Echocardiographic Assessment of the LAAA and Horst Sievert and David Holmes will talk about LAA Closure using the PLAATO and WATCHMAN devices; Mazeni Alwi will talk about Device Closure of Coronary AV Fistulas and Jean Francois Piechaud will talk about Percutaneous Closure of Paravalvar Leaks.

Live cases coming to the Adult Arena on Wednesday will be transmitted from Columbia University Medical Center where Bob Sommer and Jeff Moses will be doing live cases. Ted Feldman from Chicago, will also be doing cases, and finally, Raoul Bonan & Carlos Ruiz from Montreal heart Institute will be featuring percutaneous Aortic valve implantation using the CoreValve and possibly a Percutaneous Mitral Valve repair case.

Finally, Wednesday night is our yearly Gala event, this year it will be at the Bellagio....many of you have been to previous Gala nights and the fun we have...

difficult task and talk about "Challenges and Pitfalls in Designing Meaningful Clinical Trials for Percutaneous Mitral Valve Repair.

The Luncheon Session will feature speakers discussing the various Mitral Valve Repair Techniques: Peter Block will talk about the eValve Repair System; Maurice Buchbinder and Alec Vahanian will discuss and show a taped case of the MOBIUS System for Mitral Valve Repair; John Webb will talk about the MONARC System; George Hanzel will talk about the Cardiac Dimensions System and Stephen Ellis will talk about the Viacor Coronary Sinus Reduction System. This will be

followed by a round table discussion on New Generation Technologies for Mitral Valve Repair, again industry and physicians are represented here.

In the afternoon, a debate will take place between Marc Gillinov and a leading interventional cardiologist about Mitral Valve repair Techniques. Marc is a surgeon so you can expect what he'll be saying about his techniques.

The afternoon session will feature various speakers talking about VSD, LAA, AV Fistulas and Paravalvar Leaks. Jo De Giovanni will talk about the Adult with VSD (Congenital and Post Infarct); Mike Landzberg will talk about The Percutane-

...continued on page 18

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## Wednesday Morning Pediatric Sessions

**Congenital Heart Disease**Moderators: Ziyad M. Hijazi, Mark Galantowicz and Horacio Faella**6:30 - 7:45 AM—Continental Breakfast - Visit Exhibits****8:00 - 10:00 AM—Live Cases: Seattle Children's & St. Louis Children's**Discussants: Frank Ing, Krishna Kumar, Geoff Lane, TP Le and Jose Suarez de Lezo**10:00 - 10:30 AM—Coffee Break - Visit Exhibits****10:30 - 11:15 AM—Hybrid Mini Symposium - I****10:30 - 10:50 AM—How to Start a Hybrid Program? What is Needed?:** John P. Cheatham**10:50 - 11:10 AM—Hybrid for HLHS: Where Are We? Results and F/U:** Mark Galantowicz**11:15 - 12:30 PM—Live Cases: Seattle Children's & St. Louis Children's**Discussants: Jozef Masura, Joaquim Miro, John Moore and David Nykanen**12:45 - 2:00 PM—Luncheon Session: Critical Aortic Valve Disease Beyond Fetal Life**Moderators: David Bichell and Philip Bonhoeffer**12:45 - 1:00 PM—Chocardiographic Assessment of the Aortic Valve:** Achi Ludomirsky**1:00 - 1:15 PM—Intensive Care Management of the Patient:** Gil Wernovsky**1:15 - 1:30 PM—Catheter Therapy: Techniques & Results:** Shak Qureshi**1:30 - 1:45 PM—Surgical Therapy:** Redmond Burke

## Wednesday Afternoon Pediatric Sessions

**Congenital Heart Disease**Moderators: William E. Hellenbrand, Mario Carminati and Miguel Granja**2:00 - 3:15 PM—Live Cases: -Seattle Children's & St. Louis Children's**Discussants: Eustaquio Onorato, Wolfgang Radtke, PS Rao and Basil Thanopoulos**3:15 - 3:45 PM—Hybrid Mini Symposium - II****3:15 - 3:30 PM—Intra-operative Stenting:** David Bichell**3:30 - 3:45 PM—VSD Closure:** Emile Bacha**3:15 - 4:45 PM—Breakout Session: Challenges in the Sick Neonate (Nurses, Cath Lab Techs, and Perusionists)**Moderators: Gil Wernovsky and Sharon Hill**Cardiac Catheterization & Intervention in the Critically Ill Neonate... ECMO, Post-Op, and Beyond**Speaker: Evan Zahn, MD, Miami Children's Hospital**Perfusion Modifications for Cardiac Catheterization While On ECMO**Speaker: Vince Olshove, CCP, Columbus Children's Hospital**Device Closure in the Neonate and Small Infant**Speaker: Ziyad M. Hijazi, MD, University of Chicago, Comer Children's Hospital**Premounted Stents and Hybrid procedures to Palliate Critically Ill Neonates**Speaker: Sharon L. Hill, MSN, ACNP, Columbus Children's Hospital**3:45 - 4:45 PM—Ventricular Septal Defects****3:45 - 4:00 PM—Echocardiographic Evaluation:** Achi Ludomirsky**4:00 - 4:15 PM—Percutaneous Closure of PmVSD: Technique, Results and Complications:** John Bass**4:15 - 4:30 PM—Percutaneous Closure of Muscular VSD:** Basil Thanopoulos**4:30 - 4:45 PM—Use of PFM Nit Occlud for VSD's: Follow-up Results:** TP Le**4:45 - 5:15 PM—Debate #2- PmVSD Closure in the Cath Lab is Dangerous and Should Not be Done—Pro:** Redmond Burke; **Con:** Joaquim Miro**5:15 - 5:30 PM—Cutting balloons: Everything You Need to Know:** Larry Latson**5:30 - 6:00 PM—Featured Lecture: Fontan Completion in the Catheterization Laboratory:** Lee Benson**6:00 PM—Closing Remarks:** Ziyad M. Hijazi and William Hellenbrand**7:30 PM—Gala Night (Reception and Dinner)**

## Wednesday Breakout—Challenges in the Sick Neonate

**3:15-4:45—Challenges in the Sick Neonate**Moderators: Gil Wernovsky, Sharon Hill**Cardiac Catheterization & Intervention in the Critically Ill Neonate... ECMO, Post-Op, and Beyond**Speaker: Evan Zahn, MD, Miami Children's Hospital**Perfusion Modifications for Cardiac Catheterization While On ECMO**Speaker: Vince Olshove, CCP, Columbus Children's Hospital**Device Closure in the Neonate and Small Infant**Speaker: Ziyad M. Hijazi, MD, University of Chicago, Comer Children's Hospital**Premounted Stents and Hybrid procedures to Palliate Critically Ill Neonates**Speaker: Sharon L. Hill, MSN, ACNP, Columbus Children's Hospital

tion registrations, which will be selected on a first come basis.

Ziyad Hijazi, MD, MPH  
Co-Course—Director Pediatric & Adult Interventional  
Therapies for Congenital & Valvular Heart Disease  
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~CCT~

So, as you can imagine, it will be a phenomenal course and I promise you, it will be a course to remember. Also, for the first time, we will have a **Simulation Suite** for those who are interested in practicing PFO and ASD closure techniques. There are a limited number of available simula-

Wednesday Morning Adult Sessions

**6:30 - 8:00 AM -Continental Breakfast/Visit Exhibits**

**Mitral Valve Disease In the Adult**

Moderators: *Martin Leon, Marc Gillinov and Gregg Stone*

**8:00 - 8:15 AM—When to Medicate or Operate: Guidelines for Medical and Surgical Management of Mitral Valve Disease:** *Allan Schwartz*

**8:15 - 8:30 AM—The Role of 3D Echocardiography in Characterizing Subsets with Mitral Regurgitation& Guiding Interventional Therapies:** *Roberto Lang*

**8:30 - 10:00 AM—Live Cases: Columbia University, Montreal Heart Institute and Northwestern Evanston Hospital**  
Discussants: *Maurice Buchbinder, Steven Bolling, Stephen Ellis, Howard Herrmann and Francesco Maisano*

**10:00 - 10:15 AM—Surgical Approaches & Rationale for Mitral Valve Repair Procedures:** *Marc Gillinov*

**10:15 - 10:30 AM—The Surgical Double Orifice Procedure for Mitral Regurgitation: Techniques and Clinical Outcomes:** *Francesco Maisano*

**10:30 - 10:45 AM—Hot Topic: Controversies in Surgical Treatment of Functional or Ischemic Mitral Regurgitation: Which Patients & Which Techniques?:** *Steven Bolling*

**10:45 - 11:00 AM—Balloon Mitral Valvuloplasty is the Treatment of Choice for Mitral Stenosis: "Modern" Indications, Techniques, & Clinical Outcomes:** *Igor Palacios*

**11:00 - 11:15 AM—Overview of New Percutaneous Mitral Valve Therapies for Mitral Regurgitation:** *Howard Herrmann*

**11:15 - 11:30 AM—Featured Lecture: Challenges and Pitfalls in Designing Meaningful Clinical Trials Using New Percutaneous Therapies in Patients with Mitral Regurgitation:** *Gregg Stone*

**11:30 - 12:30 PM—Live Cases: Columbia University, Montreal Heart Institute, & Northwestern Evanston Hospital**  
Discussants: *Marc Gillinov, Igor Palacios, Campbell Rogers, Roberto Lang, Allan Schwartz and John Webb*

**12:30 - 2:30 PM—Luncheon Session: Clinical Experiences with Percutaneous Mitral Valve Therapies**  
Moderators: *Maurice Buchbinder & Alec Vahanian*

**12:45 - 1:00 PM—The eValve Edge-to-Edge Clip Repair - Summary of the US EVEREST Clinical Trials—***Peter Block*

**1:00 - 1:15 PM—The MOBIUS Edge-to-Edge Suture Repair-Summary of OUS First in Man Experience:** *Maurice Buchbinder*

**1:15 - 1:30 PM—Taped Case of The MOBIUS Edge-to-Edge Suture Repair:** *Alec Vahanian*

**1:30 - 1:45 PM—The MONARC Coronary Sinus Reduction Approach- Summary of OUS Clinical Experience—***John Webb*

**1:45 - 2:00 PM—The Cardiac Dimensions-Carrilon Coronary Sinus Reduction Approach - Summary of Worldwide Clinical Experiences:** *George Hansel*

**2:00 - 2:15 PM—The Viacor Coronary Sinus Reduction Approach: Summary of Early Clinical Experiences:** *Stephen Ellis*

**2:15 - 2:30 PM—Surgical Plication Annuloplasty: Rationale for Percutaneous Therapies:** *TBD*

**2:30 - 3:00 PM—Roundtable New Technology Discussion: Next Generation Percutaneous Mitral Valve Therapies**  
Moderators: *Peter Block and Martin Leon*  
Discussants: *Don Bobo, Feryn Powell, David Reuter and Campbell Rogers*

Wednesday Afternoon Adult Sessions

Moderators: *David Holmes, Horst Sievert and Antonio Colombo*

**3:00 - 3:30 PM—Debate #3—Interventional Mitral Valve Therapy for Mitral Regurgitation is Simplistic and Doomed to Failure: Pro: - Marc Gillinov; Con: - TBD**

**Miscellaneous Adult Structural Heart Defects (VSD, PDA, LAA Closure, AV Fistula, and Paravalvular Leaks)**

**3:15 - 4:45 PM—Breakout Session: Challenges in the Sick Neonate (Nurses, Cath Lab Techs, and Perfusionists)**  
Moderators: *Gil Wernovsky, Sharon Hill*

**Cardiac Catheterization & Intervention in the Critically Ill Neonate.... ECMO, Post-Op and Beyond**  
Speaker: *Evan Zahn, MD Miami Children's Hospital*

**Perfusion Modifications for Cardiac Catheterization While On ECMO**  
Speaker: *Vince Olshove, CCP, Columbus Children's Hospital*

**Device Closure in the Neonate and Small Infant**  
Speaker: *Ziyad M. Hijazi, MD, University of Chicago, Comer Children's Hospital*

**Premounted Stents and Hybrid procedures to Palliate Critically Ill Neonates**  
Speaker: *Sharon L. Hill, MSN, ACNP, Columbus Children's Hospital*

**3:30 - 5:00 PM—Live Cases: Columbia University, Montreal Heart Institute, & Northwestern Evanston Hospital**  
Discussants: *Michael Landzberg, Roberto Lang, Jean Francois Piechaud and Gregg Stone*

**5:00 - 5:15 PM—The Percutaneous Treatment of Adult VSDs (Congenital & Post Infarcts):** *Jo De Giovanni*

**5:15 - 5:30 PM—The Percutaneous Management of PDAs in the Adult:** *Michael Landzberg*

**5:30 - 5:45 PM—Echocardiographic Features and Guidance of Interventional LAA Closure in Patients After Embolic Strokes: Role of 3D Echo:** *Roberto Lang*

**5:45 -6:00 PM—Results of LAA Closure Using the PLAATO Device:** *Horst Sievert*

**6:00 - 6:15 PM—Results of LAA Closure Using the WATCHMAN Device:** *David Holmes*

**6:15 - 6:30 PM—The Percutaneous Management of Coronary AV Fistulae in the Adult:** *Mazeni Alwi*

**6:30 - 6:45 PM—The Percutaneous Management of Para-Valvular Leaks:** *Jean Francois Piechaud*

**6:45 PM—Closing Remarks & Adjourn:** *Martin Leon and Gregg Stone*

**7:30 PM—Gala Dinner**

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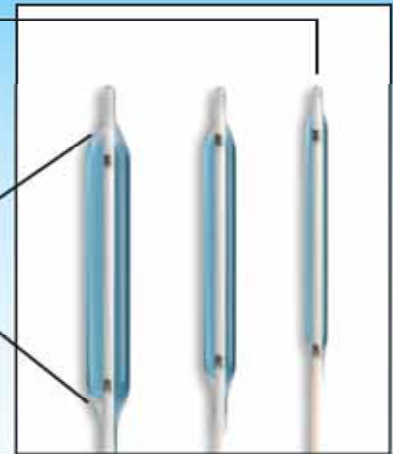
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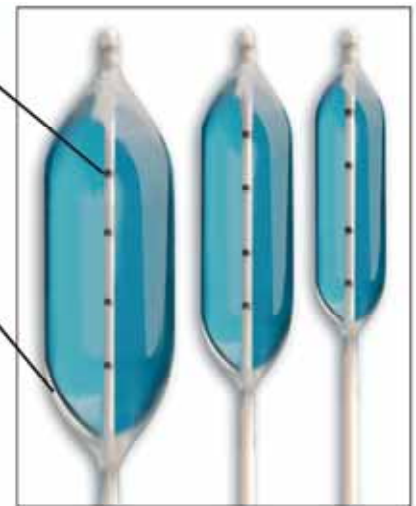
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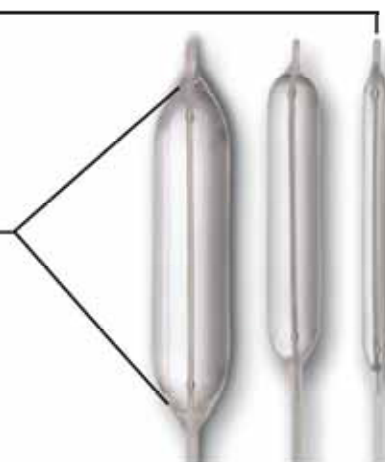
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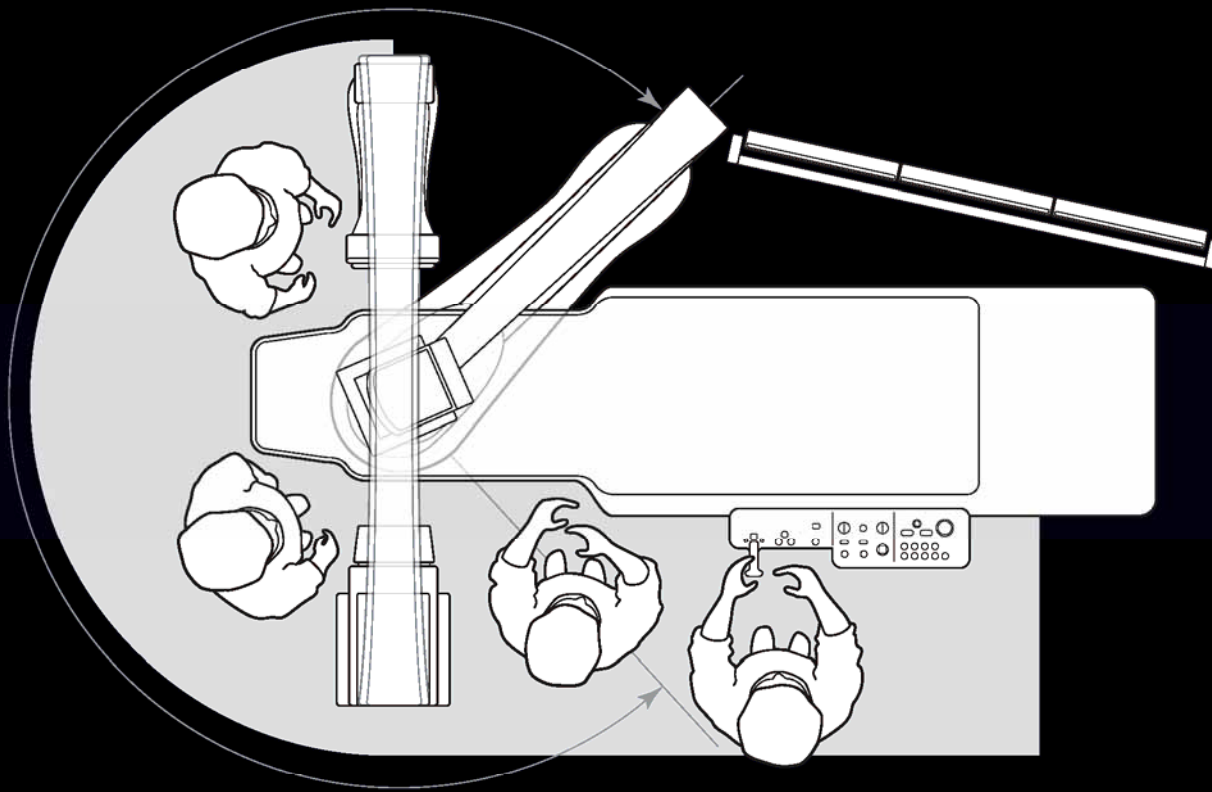
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## PRODUCT INFORMATION

### **B. Braun Medical, Inc. Introduces New Mini Ghost PTA Balloon Dilatation Catheter**

B. Braun Medical, Inc. introduces the new Mini Ghost PTA Balloon Dilatation Catheter, offering a wide range of balloon catheter sizes from 2-6mm on a .018" platform, with rated burst pressures up to 20 ATMS. The new Mini Ghost PTA Balloon Dilatation Catheter offers enhanced features including:

- Wide range of balloon sizes, 2-6mm on a .018" platform that can be inserted through a 4 French introducer sheath
- Rated burst pressures up to 20 ATMs
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- Co-Axial catheter
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The new Mini Ghost PTA Balloon Dilatation Catheter is an exciting new addition to B. Braun's .018" platform line of PTA Dilatation Balloon Catheters. This balloon has been designed for Percutaneous Transluminal Angioplasty of small, narrowed or obstructed iliac, femoral or renal arteries in the peripheral vasculature. Currently, the Mini Ghost is the only .018" platform PTA balloon dilatation catheter with Rated Burst Pressures of up to 20 ATMS.

For more information, visit: [www.bbraunusa.com](http://www.bbraunusa.com).

### **Clinical Trial Data from NMT Medical's BEST Trial Presented at EuroPCR— Positive Data Presented from Company's BioSTAR® Bioabsorbable Septal Repair Implant Trial**

NMT Medical, Inc., an advanced medical technology company that designs, develops, manufactures and markets proprietary implant technologies that allow interventional cardiologists to treat cardiac sources of migraine headaches, stroke and other potential brain attacks, announced today that the preliminary clinical results from its BEST (BioSTAR® Evaluation Study) trial were presented at the Late Breaking Clinical Trials session at EuroPCR in Paris. EuroPCR is the largest interventional cardiology meeting in Europe.

The multi-center BEST trial is designed to evaluate NMT's new bioabsorbable septal closure technology in subjects with patent foramen ovale (PFO) or atrial septal defect (ASD). The trial is being led by Michael Mullen, MD, Interventional Cardiologist at Royal Brompton Hospital, London.

Dr. Mullen reported on the six-month follow-up period of 57 patients enrolled in the study. At 30 days post implant with BioSTAR®, complete closure rate was achieved in 88.5% of the study subjects. At six months, the complete closure rate increased to 96.4%. No major safety issues were observed. The average procedure time to close the septal defect with BioSTAR® was approximately 40 minutes.

BioSTAR® is NMT's first implant in a series of new, advanced septal closure technologies designed to provide a bioabsorbable option for patients with heart defects like PFO. BioSTAR® incorporates a collagen matrix on the proven STARFlex<sup>(tm)</sup> alloy framework. Over time, 90% - 95% of the implant is absorbed and replaced with the patient's native tissue providing a more natural, biological closure. The BioSTAR® collagen also is a platform for adding biological

response modifiers (genes, cells, proteins and drugs). The BioSTAR® implant used in the BEST trial provided an elutable heparin substrate designed to minimize the thrombus formation that occasionally occurs in all intra-cardiac devices.

Dr. Mullen said, "BEST is a well-designed, multi-center study. Echo evaluations: baseline, implant, 30 days and six months were reviewed by an echo core lab. The preliminary results from BEST demonstrate that BioSTAR® is a safe and effective septal repair implant that provides a more rapid and complete closure of PFO and small ASDs. BioSTAR® shows consistent edge to edge sealing of the septal wall with a low profile. Since 90% to 95% of the implant is absorbed and replaced with native tissue, BioSTAR® offers clear advantages to patients such as future trans-septal access to the left atrium."

"We are pleased with the positive results reported today on our BioSTAR® technology," said John E. Ahern, NMT's President and Chief Executive Officer. "As planned, we will now use the BEST clinical trial results to file for CE Mark approval, which we currently expect to receive within the next several months. We continue to believe that, if approved BioSTAR® will give us a strong competitive advantage over current PFO closure implants. These results announced today are further proof that NMT is the leader in PFO closure and that we maintain a strong and expanding technology pipeline."

For more information, visit [www.nmtmedical.com](http://www.nmtmedical.com).

### **Biosound Esaote Introduces MyLab™50, Expands Offerings for the Cardiovascular Laboratory**

Biosound Esaote, a global leader in ultrasound technology, announces the

introduction of MyLab™ 50, the newest member of the MyLab™ family of advanced ultrasound systems.

MyLab 50 is the latest Biosound Esaote cardiovascular system to provide premium performance with advanced features like integrated contrast acquisition, Tissue Velocity Mapping (TVM) and high resolution multiplane TE imaging for diagnostic confidence with even the most difficult patients.

“MyLab 50 will, along with MyLab 30 CV, allow Biosound Esaote to offer a full range of high performance ultrasound systems for the cardiovascular laboratory,” stated Jim Chapman, Director of Product Marketing. “From the private practice office to the hospital environment, the MyLab™ Family is capable of satisfying any diagnostic requirement in cardiovascular scanning, from pediatric to adult.”

MyLab 50 was unveiled at the American Society of Echocardiography (ASE) meeting, June 15-18, in Boston, Massachusetts.

“The MyLab 50 offers a system geared towards those practices not requiring the extreme portability provided by the MyLab 30 CV, but who require premium performance in a console based system which is still relatively small and very ergonomic,” added Claudio Bertolini, President of Biosound Esaote. “The introduction of the MyLab 50 allows us to offer a full range of technology options to meet any clinical challenge.”

Biosound Esaote, headquartered in Indianapolis, Indiana, is a market leader in diagnostic portable ultrasound systems with real-world applications for mobile and outreach services and private practice cardiovascular offices. Established in 1979, Biosound Esaote is part of the international Esaote Group a global leader in research, production and marketing of medical diagnostic equipment. Esaote is part of the Bracco Group, an integrated health care group and world leader in solutions for diagnostic imaging.

For more information, visit [www.biosound.com](http://www.biosound.com).

**Somanetics Pioneers Cerebral/Somatic Monitoring of Changes in Regional Blood Oxygen Saturation with its Next-Generation INVOS® System—Pediatric Critical Care Especially Interested in its Unique Simultaneous Monitoring Capability**

Somanetics (Nasdaq:SMTS) has commenced its launch of the INVOS® Cerebral/Somatic Oximeter, the first and only FDA-cleared noninvasive oximeter that can simultaneously monitor changes in regional oxygen saturation (rSO<sub>2</sub>) of blood in both cerebral and skeletal muscle (somatic) tissue. The INVOS Cerebral/Somatic Oximeter is the fifth generation INVOS system, and the first specifically designed by Somanetics to apply the company's pioneering rSO<sub>2</sub> monitoring technology to simultaneously monitor the brain and other regions of the body.

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In redesigning the INVOS System to enable simultaneous cerebral/somatic monitoring, Somanetics' engineers doubled the number of data channels from two to four. This allows critical care teams to place sensors over somatic tissue without moving those already on the forehead for cerebral monitoring. This provides oxygenation values for the regions directly beneath the sensors, and can result in an earlier warning signal than traditional, systemic (whole body) measures.

Simultaneous rSO<sub>2</sub> monitoring of cerebral and somatic tissue is most rapidly being adopted by pediatric and neonatal critical care clinicians during the acutely high-risk post-operative period when life-threatening or disabling complications can occur. Among other things, this hemodynamic data combination enables clinicians to continuously track the stability of cerebral and peripheral blood oxygen saturation and use associations between the two to more tightly manage care. For example, customer experience has shown that a drop in the somatic rSO<sub>2</sub> value may indicate that the peripheral circulation is shutting down to preserve the brain - a potential early indicator of shock.

*Somanetics expects pediatric and neonatal intensive care units to be the biggest initial users of the new system.*

"Multi-site near-infrared monitoring opens up a 'window' through which we can see the distribution of blood flow, oxygen delivery and metabolism throughout the brain and body," explains George M. Hoffman, MD, Chief of Pediatric Anesthesiology and Associate Director of the Pediatric Intensive Care Unit at Children's Hospital of Wisconsin. "This is the first time we can obtain noninvasive, multi-site, continuous and real-time regional oxygen economy data to identify critical events, responses to acute interventions and trends over time. It has helped us identify conditions of low total cardiac output, mild shock, and hypoperfusion of the brain and somatic tissue early enough to guide effective interventions to reduce the risk of neurologic injury, renal failure or multi-system organ dysfunction."

*Combination monitoring is also being used in the operating room.*

"Cerebral and somatic oximetry incrementally increases the safety and confidence with which we treat our neonatal and pediatric cardiac surgery patients," explains Hani A. Hen-

nein, MD, Chief of Pediatric Cardiothoracic Surgery at Rainbow Babies & Children's Hospital. "We use the INVOS System perioperatively on all our patients and find it very useful during induction of anesthesia, cannulation, deciding on the degree of hypothermia and hemodilution, and while weaning from cardiopulmonary bypass; all scenarios that can contribute to ischemic problems."

Early use of cerebral/somatic monitoring is also being seen in adult vascular surgery or procedures that may place the brain and body at risk of dysoxygenation. These include use during carotid endarterectomy, brachial artery embolectomy (a procedure to remove clots in arteries of the arm), and aorto-bifemoral bypass (a procedure to replace arteries that supply blood to the legs when they are clogged with plaque).

According to Somanetics' President and Chief Executive Officer Bruce Barrett, "As a pioneer in cerebral oximetry, it is fitting that Somanetics introduce the next chapter in this modality's evolution with a system that enables simultaneous regional monitoring of blood in the brain and somatic tissue. We believe that in the past three years the volume of procedures monitored with the INVOS System has nearly doubled. We also believe that the introduction of simultaneous cerebral/somatic monitoring will increase the clinical use of this technology for critical care teams and a growing number and diversity of their patients."

With this latest evolution, the INVOS System may now be used for cerebral oximetry, somatic oximetry or both simultaneously. Additional enhancements were also made to improve ease of use and functionality. These include a larger screen display, enhanced user preferences, improved data management via USB, video output to a remote monitor and a reduction in weight and footprint.

For more information visit [www.somanetics.com](http://www.somanetics.com)

**Don't forget the Gala Dinner!**

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**8:30 p.m. - Gala Dinner - Tower Ballroom**

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 (ISSN 1554-7787-print; ISSN 1554-0499-online)  
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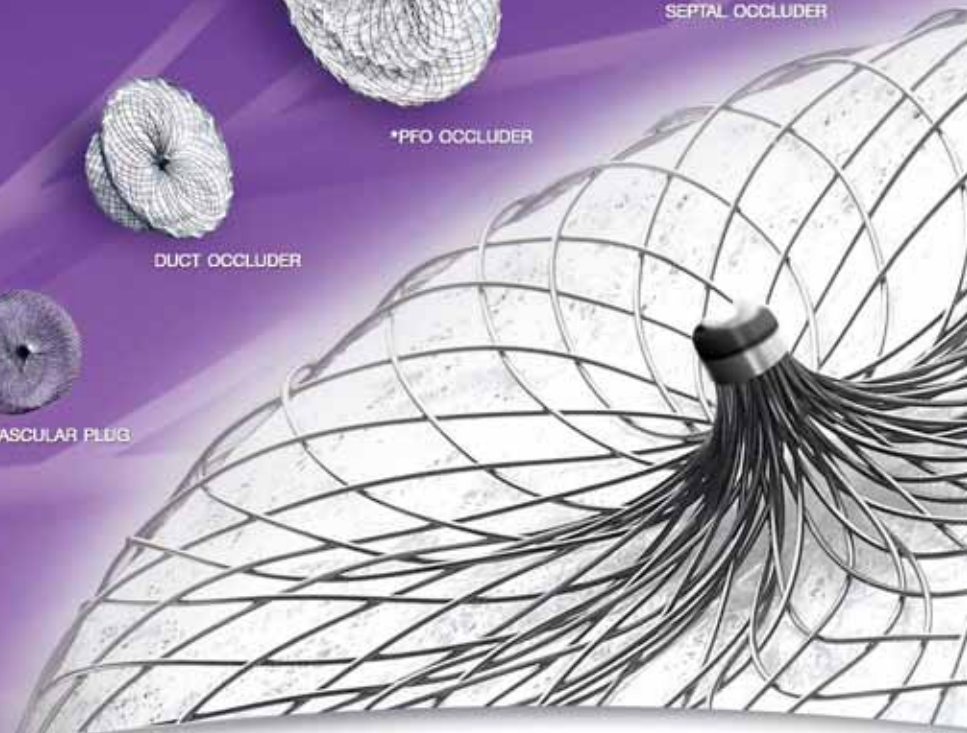
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