By Ziyad M. Hijazi, MD; William E. Hellenbrand, MD; Martin B. Leon, MD; and Gregg W. Stone, MD

Dear Colleagues,

Welcome to the Structural Heart Disease Symposium (SHDS). This new format includes the well-known Pediatric Interventional Cardiac Symposium (PICS) and Adult Interventional Cardiac Symposium (AICS). PICS will continue to offer pediatric cardiologists a broad range of interventional topics, discussions and live case demonstrations, and the new AICS will offer the adult cardiologist interested in the exciting area of structural heart disease the latest in this field. You’ll have the opportunity to attend two great meetings in one great location…you decide what you want to see and listen to. Both symposia will feature didactic lectures from the world experts in this field, and live case demonstrations from around the world. Cases will be transmitted live simultaneously to both arenas from Columbus, Las Vegas, Miami, Milan, New York, Omaha, Sao Paulo, Seattle, St. Louis, Toronto and Vancouver.

This meeting will be the most comprehensive symposium worldwide in the burgeoning field of interventional therapies for the pediatric patients with congenital heart disease and for the adult patient with congenital and structural heart disease. This symposium will give the attendees a unique opportunity to interact with a distinguished faculty during: didactic lectures, interactive discussions, workshops, live case demonstrations, taped edited cases and smaller breakout sessions.

This year’s course will demonstrate the latest in: devices, implantable valves, bioabsorbable technology, stents, balloons and...
will provide attendees the opportunity to learn about many new aspects of interventional cardiology. Special sessions will provide an in-depth focus on neonatal & fetal interventions, the RVOT, septal defect closure (PFO, ASD, VSD), coarctation stenting, aortic valve disease (including the new percutaneous aortic valve implantation techniques), mitral valve disease (balloon valvuloplasty, surgical treatments and new percutaneous leaflet repair and annuloplasty approaches), hybrid interventions for hypoplastic left heart syndrome, muscular VSD and much more.

Once again we will be having “Hot Debates,” breakout sessions, and “My Nightmare Case in the Cath Lab.” There will be oral abstract presentations and daily poster abstracts displayed in the exhibit area. This year’s Gala Dinner will be held at the Bellagio on Wednesday July 25th at 7:30 PM. Your symposium registration includes one ticket to the gala.

“Welcome to the Structural Heart Disease Symposium (SHDS). This new format includes the well-known Pediatric Interventional Cardiac Symposium (PICS) and Adult Interventional Cardiac Symposium (AICS).”

We hope you will join us in Las Vegas for what promises to be the best meeting in the world. This will be your opportunity to meet and network with colleagues from around the world, as well as industry representatives, and an opportunity to glean the latest in medical device technology. We encourage you and your colleagues (staff, fellows, nurses and technicians) to submit abstracts to the meeting. There is a 25% discount for accepted abstracts!

The University of Chicago is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

The University of Chicago designates this educational activity for a maximum of 35 hours in Category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Sincerely,

Course Directors
Ziyad M. Hijazi, MD; William E. Hellenbrand, MD; Martin B. Leon, MD; and Gregg W. Stone, MD

~CCT~
Highlights from PICS 2006, Las Vegas, Nevada

By Ziyad M. Hijazi, MD

With just about 1,000 attendees from 64 countries in addition to the USA, PICS (Pediatric and Adult Interventional Therapies for Congenital and Valvular Heart Disease) was a huge success. Sixty percent of the attendees were from the US, and 40% from abroad. I was told many of our international colleagues could not get a visa to the US!

For the first time, last year’s meeting included combined and breakout pediatric and adult sessions for interventional therapy of congenital and structural heart disease. Live cases from 13 sites were transmitted via satellites to the venue at the Bellagio Hotel. The response we received was overwhelming with excellent feedback about the educational contents and the venue.

The afternoon was marked by an exciting workshop on ASD’s and PFO’s. In this workshop, the majority of devices/techniques used (investigational and approved) for ASD and PFO closure were discussed. A total of 14 speakers discussed various devices and topics related to PFO and ASD closure. In addition to the devices used for closure, the use of ICE was discussed as well as the use of TCD to detect right to left shunt.

At the same time as the workshop, there were simultaneous sessions of oral abstract presentations. A total of 30 abstracts were selected out of 145 for oral presentations in congenital and valvular heart disease. This was followed by “Meet the Expert Sessions.” Again, this was a combined session between adult and pediatric cardiologists to discuss difficult cases that were presented by the attendees.

At the end of the day, a welcome reception was held in the exhibit area that held more than 30 exhibits representing different manufacturers of devices, catheters, etc.

The following day, Monday, September 11th was a combined day between the adult and pediatric cardiologists. The symposium was officially inaugurated and the activities started with live cases from Milan, followed by live cases from Frankfurt, Sao Paulo and Toronto. During these cases, the operators discussed various cases of congenital heart disease in adult patients. From Milan, Drs. Mario Carminati and Gianfranco Butera operated together and demonstrated excellent cases; from Frankfurt, Dr. Horst Sievert demonstrated two cases of PFO closure using different devices; Dr. Carlos Pedra, from Sao Paulo, demonstrated three excellent cases of various interventions; and Drs. Lee Benson and Eric Horlick from Toronto demonstrated excellent two cases including a percutaneous pulmonary valve implantation.

The first lecture of the day by Howard Herrmann and David Nykanen, was about the technique of trans-septal puncture in adults and children. This was followed by an excellent lecture by Bill Hellenbrand on coarctation stenting.

During the entire day, nine cases were transmitted live from the above-mentioned centers, which demonstrated the latest techniques for adults
with congenital heart disease. Furthermore, ten lectures from the
course faculty were given addressing various topics including as men-
tioned above: trans-septal puncture techniques, coarctation stenting and
a series of talks about the right ventricle outflow tract (given by Charlie
Kleinman, Dianna Bardo, James Wilkinson, Kevin Walsh, Philipp
Bonhoeffer and Ziyad Hijazi). Finally, Drs. Ted Feldman and Mike
Mullen gave a nice presentation on how to develop a successful pro-
gram for adults with congenital and valvular heart disease.

The last activity of the day was the annual PICS achievement award.
This year the award went to Dr. Philipp Bonhoeffer for his innovative
work in congenital heart disease, specifically, for his development of
percutaneous pulmonary valve implantation that paved the way for the
percutaneous valve replacement/repair era we are witnessing.

Tuesday, September 12th, 2006 was the second full day of the meeting.
There were two parallel sessions in two different ballrooms, one for con-
genital heart disease, and the other one for valvular/structural heart dis-
case. There were live cases transmitted to each room via satellite from
around the world. Cases were transmitted from Chicago and Vancouver
to the adult arena. For the first time in a US course, a percutaneous
aortic valve implantation was transmitted live from St. Paul’s Hospital
performed by Dr. John Webb, the leader in the world in this technique.
This was followed by a case of mitral valve repair also from Vancouver by
Dr. Webb. Again, this case was the first to be transmitted live to a US
course. From Chicago, I transmitted to the adult arena two cases: an ASD
and a PDA device closure in two patients demonstrating the imaging tech-
niques and the devices used.

Live cases were transmitted to the pediatric arena from Toronto Sick
Kids with Dr. Benson who performed a percutaneous pulmonary valve
implantation. From Columbus, Ohio, Drs. Cheatham and Galantowicz
transmitted a case of hybrid therapy for a neonate with HLHS, while Dr.
Amin performed three cases of LPA angioplasty, large ASD closure in a
small child under TEE and ICE guidance to demonstrate the two tech-
niques. One patient had a coronary artery fistula, and the attendees and
the moderators felt that Dr. Amin should wait and not do the case, which
he did. Finally, I transmitted a case of RVOT stent implantation in a
child with severe conduit obstruction after a Rastelli operation. A total of
12 cases were transmitted that day to both arenas.

In terms of lectures, the Tuesday adult arena focused on the aortic valve
with over 12 lectures/discussions addressing the various issues
related to the aortic valve. The list of the speakers was very impressive
including: Drs. Bob Bonow, Michael Mack, Allan Stewart, Ted Feldman,
Marty Leon, Jeff Moses, Alain Cribier, George Hanzel, Eberhard Grube,
Craig Smith, Donna Buckley and a roundtable discussion that included:
Marty Leon, Gregg Stone, Peter Block, Larry Wood, Amr Salahieh,
Jacque Seguin and Raoul Bonan. Dr. Webb gave his aortic valve talk
via satellite from Vancouver.

In the afternoon sessions in the adult arena, the focus was on the PFO/
ASD closure. Dr. John Carroll talked about the use of imaging modalities
during PFO and ASD closure; this was followed by Bob Sommer who
talked about the basics of PFO closure; Jon Tobis talked about strokes
and PFO; Jose Suarez de Lezo talked about closure of ASD in adults
and Horst Sievert talked about new PFO and ASD closure devices. Of
note, on Monday, Horst transmitted live cases from Frankfurt, and trav-
eled the whole day to come and give his talk. It was most certainly, ap-
preciated by all. The last activity of the day in the adult arena was an excellent debate between Gregg Stone and Paul Kramer about PFO closure. I was told that Gregg won that debate calling for randomized trials before we can recommend PFO closure to prevent stroke recurrence.

The pediatric arena also had a very busy schedule of lectures and debates. The list of speakers and topics included: A mini-symposium on stents given by Felix Berger, Frank Ing, Chuck Mullins, Evan Zahn and David Bichell. Another mini-symposium on ASD and PDA closure was also organized and speakers discussed various issues related to ASD and PDA including: echocardiographic evaluation in children by Charlie Kleinman, the Helex device by Geoff Lane; the Amplatzer device by Jozef Masura, closure of large PDAs by Krishna Kumar and closure of PDAs in premies by Neil Wilson.

Donna Buckley, MD from the FDA gave a talk about the appropriate trial design to seek device approval in the pediatric age group. This was followed by an interesting debate between Evan Zahn and Emile Bacha on coarctation angioplasty in children...this was certainly a lively debate.

During lunch there were some parallel sessions including the popular “My Nightmare Case in the Cath Lab.” Needless to say, the moderators of this popular session (Neil Wilson and Mike Mullen) made this the most crowded session. Another session was on fetal intervention that featured the pioneering work of Wayne Tworetzky and Achi Ludomirsky.

Also, in the afternoon, there were parallel sessions for nurses and techs organized by Ms. Sharon Hill. On Tuesday, the focus was on Adult Congenital Heart Disease. In this session, Dr. Chuck Mullins, Dr. Stephen Cook, Ms. Elizabeth Sparks and Mr. Russel D’Sa gave excellent presentations addressing various issues related to the adult with CHD.

The last day, September 13th, was equally busy in both arenas. In the adult arena, live cases were transmitted from Columbia Medical Center in New York City and from Evanston, Illinois. Dr. Bob Sommer performed three excellent cases, and Dr. Ted Feldman also performed 3 excellent cases of valvular and structural heart disease intervention. To the pediatric arena, Drs. Tom Jones, Mark Reisman performed three cases from Seattle and Dr. David Balzer performed also three cases from St. Louis. All cases that day were excellent and educational and the attendees enjoyed them tremendously.

From lecture point of view, in the adult arena the focus that day was on the mitral valve and its diseases and the various new technologies available to treat MR/MS.

Drs. Allan Schwartz, Roberto Lang, Marc Gillinov, Francesco Maisano, Steve Bolling, Igor Palacios, Howard Herrmann, Gregg Stone, Maurice Buchbinder, Peter Block, John Webb, George Hanzel, Stephen Ellis, and Allan Stewart gave excellent talks addressing the various aspects of mitral valve disease and therapeutic tools. This was followed by a roundtable discussion featuring Marty Leon, Gregg Stone, Peter Block, Don Bobo, Ferlyn Powell and David Reuter. Discussion focused on the industry and medical community, and what can be done to bring these tools to patient side. A debate between Allan Schwartz and Michael Mack regarding mitral valve
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therapeutic techniques took place a day before. The debate was excellent and friendly. The last session for the adult arena was focused on the VSDs in adults given by Jo De Giovanni, PDAs in adults by Ziyad Hijazi, LAA imaging and closure by Roberto Lang and David Holmes, coronary fistulas by Mazeni Alwi, and paravalvar leaks and their management by Jean Francois Piechaud.

In the pediatric arena, there were many topics discussed including a mini-symposium on Hybrid intervention featuring John Cheatham and Mark Galantowicz who discussed their pioneering work in HLHS, David Bichell and Emile Bacha talked about intra operative stent implantation and VSD closure. Then a mini-symposium on VSD closure was organized and this featured the echocardiographic evaluation of VSD by Norm Silverman, techniques and results of VSD closure using the Amplatzer device by John Bass, closure of muscular VSD by Basil Thanopoulos, use of Nit Occlud for VSDs by TP Le.

Then, a very interesting and lively debate between Joaquim Miro and Redmond Burke about PmVSD closure, this was indeed a fun debate!

The last two talks of the meeting were given by John Cheatham on cutting balloons, and Fontan Completion in the cath lab by Lee Benson.

The parallel sessions that day included a luncheon session on critical aortic valve disease beyond fetal life. This session featured Norm Silverman who discussed the echocardiographic features of this disease, Gil Wernovsky who discussed the ICU management of such patients, Shak Qureshi discussed the catheter option technique and Redmond Burke discussed the surgical management of these children. The other parallel session was focused on "Challenges in the Sick Neonates." In this symposium moderated by Gil Wernovsky and Sharon Hill, speakers touched on cardiac catheterization and interventions in the critically ill neonate by Evan Zahn; perfusion modifications for cardiac catheterization while on ECMO by Vince Olshove; device closure in the neonate and small infants by Ziyad Hijazi, and premounted stents and hybrid procedures to palliate critically ill neonates by Sharon Hill.

After a full three and a half days of intense lectures and live cases, the attendees were invited to the Gala night party that was held Wednesday, September 13th, 2006 at the Bellagio Hotel. During the Gala, the person who traveled the furthest to come to PICS was awarded a 30 GB iPod®, courtesy of Congenital Cardiology Today. Also, AGA Medical and B. Braun held their annual raffle to give four attendees free registrations for PICS-2007! Then the band, which was excellent, entertained the attendees until midnight!!

~CCT~
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SUNDAY - Combined Sessions: PICS/AICS

9:00 a.m. - 7:00 p.m. Registration
12:00-1:00 p.m. Lunch Break
1:00-4:00 p.m. Comprehensive Workshop: What is New in PFO/ASD Closure: New Devices/Techniques/Imaging/Monitoring
Moderators: Ziyad M. Hijazi, Peter Block, Mark Reisman, Michael Mullen and Robert Sommer
4:00-6:00 p.m. Oral Abstract Presentations
Moderators:
Room 1: PS Rao, John Moore, Shakeel Qureshi;
Room 2: David Balzer and Bharat Dalvi, Elchanan Bruckheimer;
Room 3: Teiji Akagi, Thomas Jones and John Bass
6:00-8:00 p.m. Welcome Reception

MONDAY Morning Session: PICS

6:30-7:45 a.m. Continental Breakfast
Moderators: M. Hijazi, Mike Tynan, John P. Cheatham
8:00-8:15 a.m. Welcome and Course Overview
8:15-10:00 a.m. Live Cases #1: Milan, Sao Paulo and Toronto
Panelists: Mazeni Alwi, Felix Berger, JV De Giovanni and Alpay Celiker
10:15-10:30 a.m. Coffee Break and Visit Exhibits
10:30-11:30 a.m. Techniques: How To? #1
- Pulmonary Artery Rehabilitation: Balloons, Stents and More!!! - Larry Latson
- How to Close Muscular VSDs! - Zahid Amin
- How to Perform Safe Transhepatic Catheterization - Makram Ebeid
11:30 a.m.-1:00 p.m. Live Cases #2: Milan, Sao Paulo and Toronto
Panelists: Omar Galal, Horacio Faella, Craig Fleishman and Chen Chan
1:00-2:00 p.m. Lunch Break/Visit Exhibit
MONDAY Afternoon Session: PICS

Afternoon Sessions-PICS
Moderators: William Hellenbrand, Charles Kleinman and Gil Wernovsky

2:00-3:30 p.m. Live Cases #3: Sao Paulo and Milan
Panelists: Luigi Ballerini, Alvaro Galindo, Wei Gao and Shigeyuki Echigo

3:30-5:00 p.m. Fetal & Neonatal Interventions #1:
- Echocardiographic Assessment of Right Sided Obstructive Lesions (PA/IVS & PS) - Craig Fleishman
- Fetal Intervention: When and How to, and Results - Elsa Suh
- Neonatal TOF: Echocardiographic Assessment - Norman Silverman
- Perspectives of:
  - Catheter Intervention: Stent, balloons, etc. - Shaheel Qureshi
  - Surgical Palliation/Correction - Redmond Burke

5:00-5:45 p.m. Debate #1: PmVSD Closure: 3-Way Debate (#1)
- Device Closure is Safe & Should be Continued - Basil Thanopoulos
- Pfmc Coil Closure is Safer and Should Replace Device & Surgical Closure - Trong-Phi Le
- Surgery is the Gold Standard: Everything Else for Now is a Sin and Unacceptable!! - Christian Schreiber

5:30-6:30 p.m. Breakout Session #1
Interventions in The Immediate Postoperative Period
- When is it Safe to Intervene? Planning The Procedure - Evan Zahn
- ECMO: When to Place Patients on ECMO - Gil Wernovsky
- What Does a Hybrid Cath Lab Offer? - Dietmar Schranz

5:45-6:20 p.m. Debate #2: Complex Coarctation of the Aortic Arch: Catheter vs. Surgical Management
- Catheter: Jose Suarez de Lezo
- Surgical: Redmond Burke

6:20 p.m. PICS Achievement Award
6:30 p.m. Adjourn
In your lab, does Mrs. Jones have to wait for Mr. Smith to process?
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### MONDAY Morning Session: AICS

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30-7:45 a.m.</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00-8:15 a.m.</td>
<td>The Clinical Practice of Interventional Adult Structural Heart Disease: Demographic Imperatives, Physician Training and Economic Realities</td>
<td>Howard Herrmann and Ted Feldman</td>
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<tr>
<td>8:15-8:30 a.m.</td>
<td>Trans-Septal Puncture Technique Essentials: A Primer and Update for Beginners and Experts</td>
<td>Howard Herrmann</td>
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<tr>
<td>8:30-8:45 a.m.</td>
<td>The Use of Assisted Imaging Techniques (TEE, ICE, CT/MR) for Adult Structural Heart Disease Procedures</td>
<td>John Carroll</td>
</tr>
<tr>
<td>8:45-9:00 a.m.</td>
<td>FEATURED LECTURE: The Conundrum of Clinical Trials and Device Approval in Adult Congenital Heart Disease: Should Evidence-Based Medicine Dictate Clinical Practice?</td>
<td>Larry Latson</td>
</tr>
<tr>
<td>9:00-9:15 a.m.</td>
<td>Clinical Syndromes and Indications for Closure of PFOs and ASDs</td>
<td>Paul Kramer</td>
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<tr>
<td>9:15-9:30 a.m.</td>
<td>The Step-by-Step Basic Tutorial for PFO Closure: Operator Technique, Clinical Outcomes and Complications</td>
<td>Peter Block</td>
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<tr>
<td>9:30-9:45 a.m.</td>
<td>The Step-by-Step Basic Tutorial for ASD Closure: Operator Technique, Clinical Outcomes and Complications</td>
<td>Eric Horlick</td>
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<tr>
<td>9:45-10:00 a.m.</td>
<td>Preferred Imaging Techniques for Intra-Procedural Guidance of PFO and ASD Closure</td>
<td>Eustaquio Onorato</td>
</tr>
<tr>
<td>10:00-10:40 a.m.</td>
<td>Live Case #1: Basic and Advanced PFO/ASD Closure - New York</td>
<td>Linda Gillam, Eberhard Grube, Howard Herrmann and David Holmes</td>
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<td>10:40 – 11:20 a.m.</td>
<td>Live Case #2: Milan</td>
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<td>11:00 a.m. – Noon</td>
<td>Live Case #3: Basic and Advanced PFO/ASD Closure - Seattle</td>
<td>David Nykanen, John Webb and Jonathan Tobis</td>
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<td>12:00-12:15 p.m.</td>
<td>Reviewing the Landscape of New PFO/ASD closure devices</td>
<td>Horst Sievert</td>
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<td>12:15-12:30 p.m.</td>
<td>Expanded Indications for PFO closure: Migraines and Beyond</td>
<td>Jonathan Tobias</td>
</tr>
<tr>
<td>12:30—12:45 p.m.</td>
<td>My Most Challenging PFO Closure Cases: Advanced Tips and Tricks</td>
<td>Michael Mullen</td>
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<tr>
<td>12:45-1:00 p.m.</td>
<td>My Most Challenging ASD Closure Cases: Advanced Tips and Tricks</td>
<td>Carlos Zabal</td>
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<tr>
<td>1:00-02:00 p.m.</td>
<td>Lunch Break/Visit Exhibits</td>
<td></td>
</tr>
</tbody>
</table>
**MONDAY Afternoon Session: AICS**

**Other Adult Congenital Defects – 1**

*Moderators: Steven Bailey and Ted Feldman*

2:00-2:15 p.m. The Spectrum of Catheter-Based Muscular VSD Closure in the Adult - Elchanan Bruckheimer

2:15-2:30 p.m. Special Emphasis on Post-Infarct VSD Closure: Indications and Outcomes - Jo De Giovanni

2:30-2:45 p.m. The Interventional Management of PDAs in the Adult - Kevin Walsh

2:45-3:00 p.m. Principles and Techniques for Treatment of Aortic Coarctation in the Adult - Thomas Forbes

3:00-4:30 p.m. Live Case #3: Other Adult Congenital Defects - New York and Seattle

*Panelists: BG Alekyan, Maurice Buchbinder and John Carroll*

**Other Adult Congenital and Structural Defects – 2**

*Moderators: Eric Horlick and Elchanan Bruckheimer*

4:30-4:45 p.m. Interventional Approaches to Treat Peri-Valvular Regurgitation - Eulogio Garcia

4:45-5:00 p.m. Current Techniques and Promise of Left Atrial Appendage Closure in AF Patients - David Holmes

5:00-5:15 p.m. Interventional Approaches to Exclude Left Ventricular Aneurysms - Horst Sievert

5:15-5:30 p.m. Interventional Approaches to Treat Peri-Valvular Regurgitation - Elchanan Bruckheimer

5:30-6:30 p.m. Breakout Session #1

*Moderators: Abraham Rothman, David Nykanen*

**Interventions in the Immediate Postoperative Period**

- When is it Safe to Intervene? Planning The Procedure - Evan Zahn
- ECMO: When to Place Patients on ECMO - Gil Wernovsky
- What Does a Hybrid Cath Lab Offer? - Dietmar Schranz

5:45 p.m. Adjourn

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The University of Chicago Pritzker School of Medicine designates this educational activity for a maximum of 35 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
TUESDAY Morning Session: PICS

6:30-7:45 a.m.  Continental Breakfast
Moderators: William E. Hellenbrand, Michel Ilbawi and Horacio Faella

8:00-10:00 a.m.  Live Cases #1: Las Vegas, Columbus and Omaha
Panelists: Miguel Granja, Frank Ing, Phillip Moore and Bharat Dalvi

10:00-10:30 a.m.  Break/Visit Exhibit

10:30-11:30 a.m.  Bioabsorbable Technology
- An Engineer Perspectives: Definitions and Essentials! - Carol A. Devellian
- 2. For Atrial Communications: Where Are We? How Does It Look Down the Road? - Christian Jux
- For Stents: Where Are We Now, and Where Are We Heading - Felix Berger

11:30 a.m.-12:30 p.m  Live Cases #2: Columbus and Omaha
Panelists: Luigi Ballerini, Kevin Walsh, Geoffrey Lane and Carlos Zabal

12:30-2:00 p.m.  Lunch Break / My Nightmare Case in the Cath Lab!
Moderators: Neil Wilson, James Wilkinson and Horacio Faella

ARGENTINA
Horacio Faella, MD
Miguel Granja, MD

AUSTRALIA
Geoffrey K. Lane, MD
James L. Wilkinson, MD

BRAZIL
Cesar Esteves, MD

CANADA
Lee Benson, MD
Raoul Bonan, MD
Eric Horlick, MD
Joaquim Miro, MD
John Webb, MD

CHINA
Wei Gao, MD

FRANCE
Alec Vahanian, MD

GERMANY
Felix Berger, MD
Eberhard Grube, MD
Christian Jux, MD
Horst Sievert, MD
Dietmar Schranz, MD
Christian Schreiber, MD
Trong-Phi Le, MD

GREECE
Basil Thanopoulos, MD

INDIA
Bharat Dalvi, MD
Krishna Kumar, MD

IRELAND
Kevin Walsh, MD

ISRAEL
Elchanan Bruckheimer, MD

ITALY
Luigi Ballerini, MD
Eustaquito Onorato, MD

JAPAN
Teiji Akagi, MD
Shigeyuki Echigo, MD
Hideshi Tomita, MD

MALAYSIA
Mazeni Alwi, MD

MEXICO
Carlos Zabal, MD

RUSSIA
BG Alekyan, MD

SAUDI ARABIA
M. Omar Galal, MD

SLOVAKIA
Jozef Masura, MD

SPAIN
Eulogio Garcia, MD
Jose Suarez de Lezo, MD

TAIWAN
Jou-Kou Wang, MD

TURKEY
Alpay Celiker, MD

UK
Philipp Bonhoeffer, MD
J V De Giovanni, MD
Michael Mullen, MD
Shakeel A. Qureshi, MD
Michael Tyan, MD
Neil Wilson, MD

USA
Zahid Amin, MD
David Balzer, MD
John Bass, MD
Robert Bonow, MD
Maurice Buchbinder, MD
Redmond Burke, MD
Qi-Ling Cao, MD
John D. Carroll, MD
Chen Chan, MD
Carol Devellian, BS
Russell D’Sa, CVT
Makram Ebeid, MD
Jeffrey Feinestone, MD
Craig Fleishman, MD
Mark Fogel, MD
Thomas Forbes, MD

Mark Galantowicz, MD
Alvaro Galindo, MD
Linda Gillam, MD
Howard Herrmann, MD
Sharon Hill, ACNP
David Holmes, MD
Frank Ing, MD
Thomas Jones, MD
John W. Moore, MD
Phillip Moore, MD
Cliff Kavinsky, MD
Charles S. Kleinman, MD
Paul Kramer, MD
Achi Ludomirsky, MD
Michael Mack, MD
David Nykanen, MD
Wolfgang Radtke, MD
P. S. Rao, MD
Jonathan Rome, MD
Raymond Romero, RA
Abraham Rothman, MD
Allan Schwartz, MD
Girish Shirali, MBBS
Norman Silverman, MD
Allan Stewart, MD
Paul Stewart, MD
Bill Stewart, MD
S. J.Such, MD
Jonathan M. Tobis, MD
Larry Latson, MD
Robert Vincent, MD
Gil Wernovsky, MD
Mathew Williams, MD
Evan Zahn, MD

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TUESDAY Afternoon Session: PICS

Afternoon Session-PICS
Moderators: William E. Hellenbrand, Larry Latson and Thomas Jones

2:00-3:30 p.m. Live Cases #3: Las Vegas and Omaha
Panelists: Jozef Masura, Joaquim Miro, Krishna Kumar and Robert Vincent

3:30-5:10 p.m. Fetal & Neonatal Intervention #2: AS/HLHS
- Echocardiographic Evaluation—Achi Ludomirsky
- CICU Management - Gil Wernovsky
- Fetal Management: Essentials! Technique & Results - Elsa Suh
- Catheter Management in the Neonate - Jonathan Rome
- Surgical Management in the Neonate - Redmond Burke

3:45-5:00 p.m. Breakout Session #2A: Nursing and Technicians Workshops
Moderators: Sharon Hill and Russell D'Sa
- How to Become Involved in Procedures: Requirements & Regulations - Russell D'Sa
- How to Do Research in Catheter Intervention: Presentation at Meetings - Joanne Chisolm
- First Assist in Cardiac Catheterization and Intervention for Complex CHD: Emerging Role for the Advanced Practice Nurse - Jennie Peterson
- Panel Discussion

3:45-5:00 p.m. Breakout Session #2B
Moderators: Mark Reisman, Cesar Esteves

Working Together!
- What Does a Pediatric Cardiologist Learn from an Adult Cardiologist? - Krishna Kumar
- What Does an Adult Cardiologist Learn from Working with a Pediatric Cardiologist? - Cliff Kavinsky
- Can a Pediatric Cardiac Cath Lab Do Interventional Cases in Adults with CHD? Safety, Concerns, Outcomes? - Tom Forbes

Panel discussion

5:10-5:50 p.m. Debate #3: Duct Dependent Lesions: Stent vs Shunt
- Stenting is Easier and Better! - Mazeni Alwi
- Surgical Shunt is the Gold Standard - Emile Bacha
- 6:00 P.M. Adjourn

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<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>6:30-7:45 a.m.</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00-8:15 a.m.</td>
<td>Review of the 2006 ACC/AHA Valvular Heart Disease Guidelines: What's New, What's Different</td>
<td>Robert O. Bonow</td>
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<tr>
<td>8:15-8:30 a.m.</td>
<td>European Perspectives and ESC Guidelines on Valvular Heart Disease: Are There Meaningful Differences?</td>
<td>Alec Vahanian</td>
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<tr>
<td>8:30-8:45 a.m.</td>
<td>The Changing Epidemiology of Valvular Heart Disease: Implications for Interventional Treatment Alternatives</td>
<td>Martin B. Leon</td>
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<td>8:45-9:00 a.m.</td>
<td>Surgeons and Interventionalists Working Together – What a Concept!</td>
<td>Mathew Williams</td>
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<td>Transcatheter AVR – The Basics</td>
<td>Mark Reisman and Eberhard Grube</td>
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<tr>
<td>9:00-9:15 a.m.</td>
<td>Which Patients are Suitable Candidates for Transcatheter AVR? Now and in the Future!</td>
<td>Michael Mack</td>
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<tr>
<td>9:15-9:30 a.m.</td>
<td>Echocardiographic Essentials in the Diagnosis and Interventional Management of Aortic Valve Disease</td>
<td>Linda D. Gillam</td>
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<tr>
<td>9:30-9:45 a.m.</td>
<td>Perspectives, Viewpoints and Updates on the Edwards Transcatheter AVR Program</td>
<td>John Webb</td>
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<tr>
<td>9:45-10:00 a.m.</td>
<td>Perspectives, Viewpoints and Updates on the CoreValve Transcatheter AVR program</td>
<td>Eberhard Grube</td>
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<tr>
<td>10:00-10:30 a.m.</td>
<td>Taped Case #1: Transcatheter AVR: Montreal Heart Institute</td>
<td>Raoul Bonan</td>
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<tr>
<td>10:30-11:00 a.m.</td>
<td>Live Case #2: Transcatheter AVR: St. Paul Hospital - Vancouver</td>
<td>John Webb</td>
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<tr>
<td>11:00—11:30 a.m.</td>
<td>Live Case #3: Las Vegas</td>
<td>Howard Herrmann, Allan Stewart and David Holmes</td>
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<tr>
<td>11:30-11:45 a.m.</td>
<td>The Retrograde Trans-Femoral Edwards Transcatheter AVR Program (Global Update and the U.S. REVIVAL Study)</td>
<td>Martin B. Leon</td>
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<tr>
<td>11:45-Noon</td>
<td>The Antegrad Trans-Apical Edwards Transcatheter AVR Program (Global Update)</td>
<td>Allan Stewart</td>
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<tr>
<td>12:00-12:15 p.m.</td>
<td>Recent experiences with the 18Fr Retrograde Trans-Femoral CoreValve Transcatheter AVR Device</td>
<td>Maurice Buchbinder</td>
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<tr>
<td>12:15-12:30 p.m.</td>
<td>FIM Experience with the Sadra Lotus Valve</td>
<td>Eberhard Grube</td>
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<tr>
<td>12:30-2:00 p.m.</td>
<td>Luncheon Session: Industry Roundtable on Innovative “Next Generation” Transcatheter AVR Technologies (Including AorTx, Direct Flow, Sadra, Aortech, Endoluminal Technology, Advanced Bioprosthetic Surfaces, Sorin and Others)</td>
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<tr>
<td>1:00-2:00 p.m.</td>
<td>Lunch Break / Visit Exhibits</td>
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</tbody>
</table>

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To lead the treatment of congenital heart disease, doctors asked us to get out of the way.

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TUESDAY Afternoon Session: AICS

Transcatheter Mitral Valve Therapies – The Basics
Moderators: Allan Schwartz and Gregg Stone

2:00-2:15 p.m. Which Patients are Suitable Candidates for Transcatheter Mitral Valve Therapy? Now and in the Future! - Allan Schwartz

2:15-2:30 p.m. Echocardiographic Essentials in the Diagnosis and Interventional Management of Mitral Regurgitation - William Stewart

2:30-2:45 p.m. Anatomy of the Mitral Valve Apparatus and the Coronary Sinus: What Does the Interventionalist Need to Know - Mark Reisman

2:45-3:00 p.m. An Overview of Transcatheter Technologies for Mitral Regurgitation - Howard Herrmann

3:00-3:15 p.m. Challenges in Clinical Trial Design for Transcatheter Mitral Valve Therapies - Gregg W. Stone

3:15-4:45 a.m. Live and Taped Cases #3: Transcatheter Mitral Valve Therapies: Las Vegas and Vancouver
Panelists: Cliff Kavinsky, Allan Schwartz, Eustaquio Onorato and Michael Mack

3:45-5:00 p.m. Breakout Session #2: Nursing and Technicians Workshops
Moderators: Sharon Hill and Russell D'Sa

- How to Become Involved in Procedures: Requirements & Regulations - Russell D'Sa
- How to Do Research in Catheter Intervention: Presentation at Meetings - Joanne Chisolm
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- Panel Discussion

3:45-5:00 p.m. Breakout Session #2B
Moderators: Mark Reisman, and Cesar Esteves

Working Together!

- What does a Pediatric Cardiologist Learn from an Adult Cardiologist? - Krishna Kumar
- What Does an Adult Cardiologist Learn from Working with a Pediatric Cardiologist? - Cliff Kavinsky
- Can a Pediatric Cardiac Cath Lab do Interventional Cases in Adults with CHD? Safety, Concerns, Outcomes? - Tom Forbes
- Panel Discussion:

Transcatheter Mitral Valve Therapies – Advanced Concepts and New Technologies
Moderators: Ted Feldman and Peter Block

4:45-5:00 p.m. Perspectives, Viewpoints and Updates on the eValve Transcatheter Mitral Valve Repair Program (EVEREST II Update) - Ted Feldman

5:00-5:45 p.m. Industry Roundtable: Innovative “Next Generation” and Transcatheter Mitral Valve Technologies

6:00 p.m. Adjourn

“This year’s Gala Dinner will be held at the Bellagio on Wednesday, July 25th at 7:30 p.m. Your symposium registration includes one ticket to the gala.”
WEDNESDAY Morning - Combined Sessions: PICS/AICS

6:30-7:45 a.m.  Continental Breakfast

Combined PICS/AICS
Moderators: Ziyad M. Hijazi, Martin B. Leon, and Mario Carminati

8:00-10:00 a.m.  Live Cases: St. Louis, Miami, Toronto and New York City
Panelists: Jonathan Tobis, Cliff Kavinsky, Kevin Walsh and Robert Vincent

10:00-10:30 a.m.  Break/Visit Exhibit

10:30-11:30 a.m.  Live Cases: St. Louis and New York City
Panelists: Hideshi Tomita, Jou-Kou Wang, John Moore and Chen Chan

11:30 a.m.-1:15 p.m. Focus on the RVOT in Adults with CHD

- CT/MR Evaluation of RV Function and RVOT Anatomy - Mark Fogel
- Echocardiographic Assessment (3D) of the RV & RVOT - Girish Shirali
- When to Stent? What type of Stent? Results - Wolfgang Radtke
- When to Implant a Surgical Valve/Conduit: Indications and Results - Mark Galantowicz
- Perventricular Pulmonary Valve Implantation - Christian Schreiber
- Percutaneous Pulmonary Valve Implantation:
  - The Medtronic Melody Valve - Philipp Bonhoeffer
  - The Cribier-Edwards Valve - Ziyad M. Hijazi

1:15-2:00 p.m.  Lunch Break / Visit Exhibits

COURSE DIRECTORS
Ziyad M. Hijazi, MD, M.P.H.
George M. Eisenberg, Professor of Pediatrics & Medicine
The University of Chicago Hospitals
Pritzker School of Medicine
Chicago, IL USA
William E. Hellenbrand, MD
Professor of Pediatrics
Director, Catheterization Laboratory
Columbia Presbyterian Hospital
New York, NY USA
Martin B. Leon, MD
Professor of Medicine
Columbia University Medical Center
New York, NY USA
Gregg Stone, MD
Professor of Medicine
Columbia University Medical Center
New York, NY USA

COURSE CO-DIRECTORS
Peter Block, MD
Emory University Healthcare, Atlanta, GA USA
Mario Carminati, MD
Polliclinico San Donato I. R. C. S. Milan, Italy
John P. Cheatham, MD
Columbus Children’s Hospital, Columbus, OH USA
Ted Feldman, MD
Evanston Northwest Hospital, Evanston, IL USA
Carlos Pedra, MD
Dante Pazzanese Instituto de Cardiologia, Sao Paulo, Brazil
Mark Reisman, MD
Swedish Medical Center, Seattle, WA USA
Robert J. Sommer, MD
Columbia University Medical Center, New York, NY USA
WEDNESDAY Afternoon - Combined Sessions: PICS/AICS

Combined PICS/AICS
Moderators: Ziyad M. Hijazi, Gregg Stone and Carlos Pedra

2:00-3:30 p.m. Live Cases: Miami and Toronto
Panelists: Jonathan Rome, Eustaquio Onorato, Jose Suarez de Lezo and Alpay Celiker

3:30-4:00 p.m. What is New on the Horizon: Five Speakers/Researchers Will Give a Brief Overview of What They Are Currently Working On. 
Speakers/Researchers: Zahid Amin, Thomas Forbes, John Cheatham and Philipp Bonhoeffer

4:00-5:00 p.m. Techniques & Outcome
- 3D Echocardiographic Assessment of ASDs: Does it Really Help? - Girish Shirali
- Technical Aspects Closing Large ASDs - Jozef Masura
- Long-Term Outcome of Device Closure: Erosions; Arrhythmias; Conduction Problems - Joaquim Miro
- Recanalization of Occluded Vessels: Is this Needed? - Frank Ing

5:00-5:30 p.m. MRI Guided Cardiac Catheterization: Will This Be for Real? - Phillip Moore

5:00-6:30 p.m. Breakout Session#3: Hybrid Interventions
Moderators: John P. Cheatham and Zahid Amin
- Intra-operative Pulmonary Vein Stents: Techniques/Results - Emile Bacha
- HLHS: Banding & Stenting: Strides Made - Dietmar Schranz and Mark Galantowicz
- Comprehensive Stage I: Who Should Do It? Results - Mark Galantowicz

6:30 p.m. Adjourn

7:30 p.m. / 8:30 p.m. Gala Reception / Gala Dinner

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The Worldwide Leader in Pediatric Interventional Cardiology Products

We provide physicians with the highest quality devices for diagnosing and treating congenital heart disease or compromised peripheral arteries.

With the help of our distributors worldwide, we have improved the lives of patients around the world by supplying our extensive and innovative product line to help fill the universal void in products available to children everywhere.

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To: Worldwide Friends and Colleagues

From: Allen J. Tower, Sr. and everyone at NuMED

Allen Tower and the entire NuMED team would like to take this opportunity to thank all of our friends in the field of pediatric cardiology for their overwhelming support over these past several months. While these have been trying times at NuMED, the burden has been lessen by the support all of you have shown in the form of letters, phone calls, and e-mails and by the incredible number of signatures on the on-line petition.

We look forward to continuing the vital work of providing much needed medical devices to pediatric cardiologists in the effort to save children’s lives all over the world.
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The natural tissue conduit offering the essential features of a homograft with the convenience of a bioprosthesis.

This device has been approved as a humanitarian use device in the U.S.

CONTEGRA® Pulmonary Valved Conduit

Indications: See the “Humanitarian use device section below. Contraindications: Patients 18 years and older; left heart surgical procedures; If, after assessment of the risk to benefit ratio by the physician, superior clinical results are suggested by presently established alternative medical or surgical techniques. Warnings/Precautions/Side Effects: Acceptable clinical performance has been established for the Contegra conduit in pediatric patients under the age of 10. Because of the possibility that complications of the device could become apparent only after extended use, a benefit-risk consideration of the long-term use of the Contegra conduit in pediatric patients over 10 years of age is particularly important. General complications reported with valved conduits and biological tissue valves implanted in the heart include: hemorrhage, bleeding, dissection due to use of anticoagulants, residual or increasing transvalvular gradients, progressive neointimal thickening and peeling, progressive stenosis and obstruction, progressive pulmonary hypertension, graft infection, endocarditis, regurgitation, hemorrhage, valve malfunction, physical or chemical deterioration, thromboembolism, thrombus, conduit obstruction. For additional information, please refer to the instructions for use provided with the product. CAUTION: Federal law (U.S.A.) restricts this device to sale by or on the order of a physician.

*Humanitarian Use Device: Authorized by Federal law for use in patients under 10 years of age for correction or reconstruction of the Right Ventricular Outflow Tract (RVOT) in the following congenital heart malformations: Pulmonary Stenosis, Tetralogy of Fallot, Transposition of the Great Arteries, Tetralogy with Ventricular Septal Defect (T-VSD), Pulmonary Atresia. In addition, the Contegra Pulmonary Valved Conduit is indicated for the replacement of previously implanted but dysfunctional pulmonary homografts or valved conduits. The effectiveness of this device for these uses has not been demonstrated.
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