

### Recap of Monday

By Karim Diab, MD

The Monday sessions of PICS 2008 offered a substantive overview of challenging cases pertaining to the treatment of congenital and structural heart disease encountered in both children and adults. After welcoming remarks delivered by Dr. Cheatham, the morning sessions began with live case transmissions broadcasted from Brazil, Chicago, Miami and Seattle. Of particular note was Dr. Pedra's presentation of an interesting case of periventricular muscular VSD closure. This increasingly common technique, is a valuable alternative to surgical closure of these types of defects, because it avoids CPB, and has a lower incidence of residual VSDs as compared to the surgical approach. Dr. Zahn presented a case of percutaneous pulmonary valve implantation using the Medtronic Melody valve. Although we have not seen the live case of percutaneous PV implantation of the new Edwards Sapien Transcatheter Heart Valve, Dr. Hijazi promised to demonstrate that case on Tuesday, so be sure not to miss it!

The morning lectures discussed the use of covered stents in the setting of coarctation of the aorta as well as for other applications such as in Fontan tunnel leaks.

After a live morning demonstration of the application of the percutaneous PV implantation, the afternoon session provided a comprehensive discussion on this topic. It is clear that RVOT pathology is becoming a major problem in children and adults with repaired CHD involving conduits between the RV and the pulmonary artery. RVOT dysfunction with both stenosis and regurgitation results in progressive RV failure and risk for arrhythmias. Dr. Fleishman discussed the echocardiographic assessment techniques for evaluating right-sided obstructive lesions and the indications for intervention. Dr. Fogel then talked about the evaluation of RVOT pathology using MRI and CT scan. It is becoming clear that these modalities provide more accurate techniques to measure the stenotic area, and quantify flow across the RVOT as well as the RV function. They also allow making important measurements of the proximity of the coronary arteries to the MPA and to the expected stent location. Dr. Hellenbrand then presented the results of the Melody valve multi-center trial in the U.S.; it showed no significant PV regurgitation post implantation. This was followed by Dr. Webb's discussion of the results of the Edward Sapien Transcatheter Heart Valve. Unlike the Melody valve, this valve has a stainless steel frame. A newer valve is coming up with better durability and lower profile. Dr. Bacha then talked about the palliative and corrective surgical procedures for RVOT pathology, including PV replacement with or without RV remodeling.

After the end of that session, it was particularly interesting to hear Dr. Bonhoeffer present his personal views vis-à-vis the future of percutaneous PV implantation. Dr. Bonhoeffer developed the Melody valve and implanted the first percutaneous valve in a living human heart in the year 2000.

The afternoon sessions focused on the treatment for aortic valve stenosis in infants less than 3 mo. of age. Dr. Schranz provided data supporting the use of balloon treatment, while Dr. Bacha skillfully argued that surgery is still the gold standard!

Drs. Kleinman, Ilbawi and Nykanen presented the echo, surgical and interventionalist indications for preparation, and risks for catheterizing the critically ill baby with CHD.

The afternoon was also marked by a breakout session on adult structural heart disease. Dr. Carroll discussed the role of medical simulation in CHD. Dr. Leon then discussed percutaneous aortic valve therapies. A special session discussed MV assessment and therapies: Dr. Lang talked about echocardiographic assessment, as well as the indications for intervention with fascinating RT3D TEE images, which provide unique views of the MV, LAA, PV and interatrial septum. Dr. Feldman discussed the data on surgical repair for MR, while Dr. Reuter presented the available devices for percutaneous MV repair, and the results of these interventions.

### Tuesday Preview

By Karim Diab, MD

After a full day on Monday with live cases and interesting debates, PICS continues on Tuesday with simultaneous break-out sessions focusing on both pediatric and adult conditions.

Joining us back after his live cases from Chicago, Dr. Hijazi will be moderating the morning session. This will include more live cases transmitted from Atlanta (Dr. R. Vincent), Columbus (Dr. J. Cheatham), Detroit (Dr. T. Forbes), and San Diego (Dr. J. Moore). Tuesday morning promises a hot debate on what is the best approach for native coarctation of the aorta in infants and children less than 5 years of age. Dr. J. Miro will present the interventionalist's view, while Dr. R. Burke will advocate the surgeon's position!

After this interesting debate, more live cases will be transmitted from Columbus, Detroit and San Diego.

Dr. Martin from Children's National Medical Center in Washington, DC will present an overview of the NCDR registry for Pediatric and Congenital Cardiac Interventions.

After a second session of "My Nightmare Case in the Cath Lab," and more live cases,

the afternoon will be divided into two equally interesting sessions. A comprehensive session will tackle everything you need to know on Ventricular Septal Defects. Dr. Pedra will discuss the echocardiographic assessment of these defects and the indications for closure. Dr. Amin and Dr. Carminati will discuss the preventricular and percutaneous approaches to closure, respectively. Dr. Horlick will then talk about the rarer entity of post-infarct VSDs, which is obviously more commonly encountered in the adult population. Dr. Walsh will review the significance of postoperative residual VSDs. This will be followed by Dr. Le's talk on the results of PFM VSD device closure. After the interventionalists' view on approaching VSDs, Dr. Burke will present the surgeon's perspectives vis-à-vis these defects.

The afternoon break-out session will definitely be interesting, so make sure not to miss it. This will focus on PFO and LAA closures. The forth PICS debate will discuss the rational for closing, or not closing the PFO after a stroke, with talks by Drs. Feldman and Tobi. The technical aspect of PFO closure will be presented by Drs. Carroll, Onorato and Latson. Future considerations and new devices will be discussed by Dr. Sievert. This will be followed by Dr. Kan's talk on percutaneous monitoring of the LA pressure and Dr. Feldman's review of the indications for LAA closure, and what's new in that area.

Late afternoon in the Bellagio Ballroom, a comprehensive session will be held discussing PDA closure from basic to complex cases. This session will include seven talks: Dr. Wilkinson's review of the indications for PDA closure in children and adults; Dr. Vincent's talk on the basic technique for PDA closure; Drs. Alwi, Zabal and Thanopoulos talk on closure of more complex PDAs; Dr. Jones review of the use of the PFM Nit Occlud device; and Dr. Bass' review on the new ADO-II device, which is still not available in the U.S.

Tuesday night will be marked by PICS Gala Dinner, so we hope to see you all there for a relaxing evening.

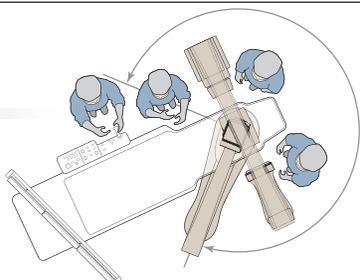


**PICS 2008 Achievement Award Winner:** Dr. Carlos Ruiz, Director of the Structural and Congenital Heart Disease program, Dept. of Interventional Cardiology, Lenox Hill Hospital of NY

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# PICS-AICS 08 Daily Briefing

JULY 22 - TUESDAY

## TUESDAY AT A GLANCE

**7:00 – 8:00 am - Breakfast / Exhibits**

**Morning Session - PICS - Moderators:**  
*Ziyad M. Hijazi, Larry Latson, Emile Bacha*

**8:00-10:00 am - Live Cases #1:** Atlanta, Columbus, Detroit, San Diego

**10:00-10:30 am - Break / Exhibits**

**10:30-11:00 am - Debate #3: Balloon Angioplasty for Native Coarctation in Infants & Children <5 Years of Age**

**11:00 am -12:45 pm - Live Cases #2;**  
Columbus, Detroit, San Diego

**1:00-1:15 pm - NCDR Registry for Pediatric and Congenital Cardiac Interventions - Gerard Martin**

**1:15-1:45 pm - My Nightmare Case in The Cath Lab #2 - Moderators:** *Neil Wilson, Charles Kleinman, Richard Ringel*

**Afternoon Session - PICS**

Moderators: *Carlos Pedra, Zahid Amin, Charles Mullins*

**2:00-3:30 pm - Live Cases #3:** Detroit, San Diego, Atlanta

**3:30-5:10 pm - Ventricular Septal Defect: Everything You Need to Know!**

**5:10-6:25 pm - The Patent Ductus Arteriosus: From Basic to Complex**

**Breakout Session #2**

**3:45-5:20 pm - The Patent Foramen Ovale & The LA - Moderators:** *Martin Leon, Ted Feldman, Bagrat Alekryan, Cliff Kavinsky*

**Debate**

**3:45-5:00 pm - Rationale For PFO Closure for Stroke**

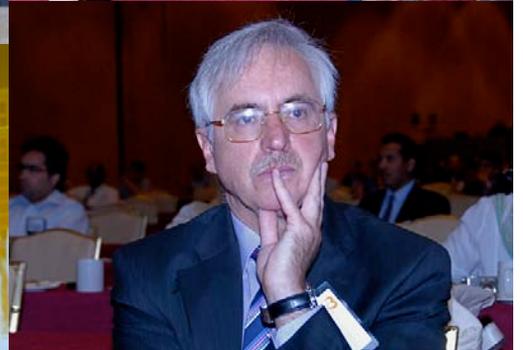
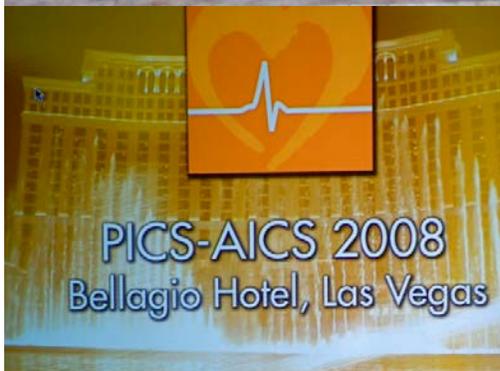
**5:00-5:15 pm - Future Directions in PFO Closure: New Devices & Techniques - Horst Sievert**

**5:15-5:30 pm - Percutaneous Monitoring of the LA Pressure - Saibal Kar**

**5:30-5:45 pm - LAA Closure: Where are We, and What is New on the Horizon? - Ted Feldman**

**7:30-11:30 pm - Gala Dinner; This year's dinner will be a "resort casual" evening including a cocktail reception, dinner and entertainment.**

## Pictures From PICS-AICS 2008



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