

**17th Annual Course on Adult Congenital
Heart Disease**

**Adult Congenital Heart Disease: Past,
Present and Future**

May 30 - June 2, 2007

**The Union League
Philadelphia, PA**

**With 2 Optional Special Pre-Conference
Programs May 29, 2007**

**Register at www.chop.edu/achd after
January 15**

Tuesday, May 29, 2007 - "Gaining a Better Understanding of Complex Anatomy in CHD: Anatomic Specimens and Echo Correlation"

- Noon **Welcome and Introduction:** Meryl S. Cohen, M.D.
- 12:05 p.m. **Septal Defects**
Pathologic Specimens
Paul M. Weinberg, M.D.
- Echocardiography**
Girish S. Shirali, M.B.B.S.
- 12:50 p.m. **Aortic Stenosis and Coarctation**
Pathologic Specimens
Paul M. Weinberg, M.D.
- Echocardiography**
Samuel Siu, M.D.
- When echo is not enough – MRI and CT of the Aorta**
Harold Litt, M.D., Ph.D.
- 1:45 p.m. **Discussion**
2 p.m. **Break**
- 2:20 p.m. **Tetralogy of Fallot**
Pathologic Specimens
Paul M. Weinberg, M.D.
- Echocardiography**
Martin St. John Sutton, M.B.
- 3 p.m. **Transposition of the Great Arteries**
Pathologic Specimens
Paul M. Weinberg, M.D.
- Echocardiography**
Folkert Meijboom, M.D.
- When Echo is Not Enough in TGA and TOF**
Mark A. Fogel, M.D.
- 4 p.m. **Discussion**
4:15 p.m. **Break**
- 4:30 p.m. **Single Ventricle**
Pathologic Specimens
Paul M. Weinberg, M.D.
- Echocardiography**
Meryl S. Cohen, M.D.
- MRI and CT in the Fontan Patient**
Jeffrey Hellinger, M.D.
- 5:30 p.m. **Discussion**
5:45 p.m. **Adjourn**

Tuesday, May 29, 2007 - "ACHD Electrophysiology Update for the Clinician"

- Noon **Welcome and Introduction**
Edward P. Gerstenfeld, M.D.
- 12:05 p.m. **Beyond Sotalol: Antiarrhythmic Drug Options in the ACHD Population**
James C. Perry, M.D.
- 12:30 p.m. **Pacemaker Therapy in the ACHD Patient: Special Considerations.**
Larry Rhodes, M.D.
- 1:05 p.m. **Sudden Death Risk Stratification: What is the Role of the ICD in the ACHD Patient?**
Joshua M. Cooper, M.D.
- 1:30 p.m. **Break**
- 1:45 p.m. **Resynchronization Therapy in the ACHD Patient: Indications, Challenges, and Outcomes.**
Seshadri Balaji, M.B.B.S., M.R.C.P.
- 2:15 p.m. **Learn Before You Burn: Catheter Mapping and Ablation**
Maully Shah, M.D.
- 2:45 p.m. **3D Image Guided Mapping and Ablation in the ACHD Patient.**
Edward P. Gerstenfeld, M.D.
- 3:15 p.m. **Surgical Ablation: Atrial Arrhythmias.**
Barbara J. Deal, M.D.
- 3:45 p.m. **Surgical Ablation: Ventricular Arrhythmias**
Louise Harris, M.D.
- 4:15 p.m. **Case Discussions and Panel**
- 5 p.m. **Adjourn**

Day 1 - Wednesday, May 30, 2007

Chairperson: Peter Liu, M.D.

- 7 a.m. **Registration and Continental Breakfast**
7:55 a.m. **Opening Comments – Gary Webb, M.D.**
- 8 a.m. **What We Hope to Learn Today**
Thomas P. Graham, M.D.
- 8:10 **Setting the Stage for Today's Adults with CHD: The History of Congenital Heart Surgery**
Thomas L. Spray, M.D.
- 8:35 **State of the Art Lecture: The Genetics of CHD**
Jonathan Epstein, M.D.

Sequelae of Repairs Beginning in the 1950's-1960's

- 9 a.m. **Anatomic Specimens on the Heart Cam® – ASD, VSD and Tetralogy of Fallot**
Paul M. Weinberg, M.D.
- 9:30 a.m. **Endothelial Function in Congenital Heart Disease: A Therapeutic Opportunity**
John Deanfield, M.D.
- 10 a.m. **Break**
- 10:20 a.m. **Should Most Native Coarctations be Ballooned and/or Stented?**
Michael Landzberg, M.D.
- 10:40 a.m. **Will the Percutaneous Pulmonary Valve Transform the Management of Tetralogy of Fallot?**
John Deanfield, M.D.
- 11 a.m. **Controversies:**
"Current Heart Failure Guidelines Should Apply to ACHD Patients"
Pro: John Jefferies, M.D.
Con: Robert E. Shaddy, M.D.
- 11:30 a.m. **"Signal Averaged ECGs are Important in ACHD Patients"**
Joseph K. Perloff, M.D.
Counterpoint
Joshua Cooper, M.D.
- Noon **Important Recent Research in ACHD – Part I**
Harald Kaemmerer, M.D. and Richard Donner, M.D.
- Featured Topic #1**
Presented by Craig Broberg, MD
- Featured Topic #2**
Presented by Stephen Cook, MD
- Featured Topic #3**
Presented by Deborah Gersony, MD

Day 1 - Wednesday, May 30, 2007

12:45 p.m. **Lunch**

- 1:45-3:45 p.m. **New Frontiers in ACHD**
Chairperson: David Sahn, M.D.
- 1:45 p.m. **The Hypoxemia and Erythrocytosis of Cyanotic CHD are Hypocholesterolemic and Antiatherogenic.**
Joseph K. Perloff, M.D.
- 2:05 p.m. **Understanding the Right Ventricle**
David Sahn, M.D.
- 2:25 p.m. **The Systemic Right Ventricle – How Long Will It Last?**
Thomas P. Graham, M.D.
- 2:45 p.m. **Beyond Bosentan: New Insights into Pulmonary Hypertension**
Carole A. Warnes, M.D.
- 3:05 p.m. **Understanding Eisenmenger Syndrome**
Jane Somerville, M.D.
- 3:25 p.m. **Risk Stratification of ACHD Patients for Noncardiac Surgery**
Jack M. Colman, M.D.
- 3:45 p.m. **What We Have Learned Today**
Andrew Redington, M.D.
- 4 p.m. **Break**

Day 1 - Wednesday, May 30, 2007
4:30-6 p.m. Simultaneous Breakout Sessions

Session I: Case Discussions - Moderator: Gary Webb, M.D.

Faculty Will Discuss Pre-submitted Cases: Audience Participation Encouraged

Panel: Joseph K. Perloff, M.D., Thomas L. Spray, M.D., Mually Shah, M.D., Seshadri Balaji, M.B.B.S. and Michael Landzberg, M.D.

Session II: Interventional Catheterization - Moderator: Jonathan J. Rome, M.D.

Update on PFO/Stroke

Howard C. Herrmann, M.D.

Update on PFO/Migraine

Marcus Schwerzmann, M.D.

Update on VSD Device Closure

Ziyad M. Hijazi, M.D.

The Use (and Abuse) of ASD Devices

William Hellenbrand, M.D.

Session III: Echocardiography - Moderator: Martin St. John Sutton, M.D.

3-D Echo in CHD

Folkert Meijboom, M.D.

Echo Assessment of the Right Ventricle

Carole A. Warnes, M.D.

Echo Assessment of Pulmonary Regurgitation

Candice Silversides, M.D.

How to Build a Strong ACHD Echo Service

Samuel Siu, M.D.

Session IV: Cardiovascular Nursing - Moderator: Mary Cannobio, R.N.

Psychosocial Well-Being of ACHD Patients

Yvonne Balon, R.N., B.N., M.N.

Genetics and Syndromes in ACHD

Libby Sparks, M.S., A.P.N.G.

Difficult Cases/Issues

Kathy Mussatto, R.N.

End of Life Issues

Jeanine Harrison, R.N.

6 p.m. Adjourn Opening Reception
Poster Session #1

Day 2 - Thursday, May 31, 2007

Chairperson: Thomas L. Spray, M.D.

Emerging Problems in ACHD: The Native and Surgically Altered Aortic Root

- 8 a.m. **What We Hope to Learn Today**
Welton M. Gersony, M.D.
- 8:20 a.m. **How to Manage Bicuspid Aortopathy**
Harald Kaemmerer, M.D.
- 8:40 a.m. **The Abnormal Aortic Root in ACHD**
Koichiro Niwa, M.D.
- 9 a.m. **Norwood, Arterial Switch and Ross Procedures: Emerging Postoperative Problems of the Neo-Aortic Root and Coronary Arteries**
Meryl S. Cohen, M.D.
- 9:20 a.m. **Aortic Root Replacement in ACHD**
Glen Van Arsdell, M.D.
- 9:40 a.m. **Techniques and Results of Aortic (and neo-Aortic) Valve Surgery in ACHD**
David Barron, M.D.
- 10 a.m. **What Impact Will Percutaneous Valves Have in the Left Heart?**
Eric Horlick, M.D.
- 10:20 a.m. **Panel Discussion**
- 10:30 a.m. **Break**

Sequelae of Repairs Beginning in the 1960's-1970's

- 10:30 a.m. **Anatomic Specimens on the Heart Cam® – Transposition and Single Ventricle**
Paul M. Weinberg, M.D.
- 11 a.m. **In the Long Run, Will Mustard/Senning Outperform the Arterial Switch?**
Carole A. Warnes, M.D.
- 11:20 a.m. **Which Atriopulmonary Fontans Should be Converted?**
Barbara J. Deal, M.D.
- 11:40 a.m. **Protein Losing Enteropathy After the Fontan Procedure: Etiology and Current Treatment**
Jack Rychik, M.D.

Important Recent Research in ACHD – Part II - Harald Kaemmerer, MD and Richard Donner, MD

- Noon **Featured Topic #4**
Presented by Michael G. Earing, M.D.
- 12:15 p.m. **Featured Topic #5**
Presented by Jamil AboulHosn, M.D.
- 12:30 p.m. **Featured Topic #6**
Presented by Joseph Kay, M.D.

Day 2 - Thursday, May 31, 2007

- 12:45 p.m. **Lunch**
Poster Session #2

Common Issues in ACHD

Chairperson: Samuel Siu, M.D.

- 1:45 p.m. Special Considerations in Women with CHD Contraception**
Sara Thorne, M.D.
- 2:15 p.m. Family Planning and Counseling**
Carole A. Warnes, M.D.
- Pregnancy and ACHD**
Jolien Roos-Hesselink, M.D., Ph.D.
- 2:45 What the Surgeon Needs to Know (and Doesn't Need to Know) Prior to Re-Do Surgery in ACHD**
Pedro J. Del Nido, M.D.
- 3:15 What the ACHD Practitioner Needs to Know About 22q11 Deletion (DiGeorge Syndrome)**
Elizabeth Goldmuntz, M.D.
- 3:45 What We Have Learned Today**
Sara Thorne, M.D.
- 4:00 PM Break**

Day 2 - Thursday, May 31, 2007

4:30-6:00 Simultaneous Breakout Sessions

Session I: Case Discussions - Moderator: Gary Webb

Faculty Will Discuss *Pre-submitted* Cases: Audience Participation Encouraged

Panel: Jane Somerville, M.D., Glen Van Arsdell, M.D., Pedro J. del Nido, M.D., Louise Harris, M.D. and Jonathan J. Rome, M.D.

Session II: Heart Failure and ACHD - Moderator: Kenneth Margulies, M.D.

Medical Management

Lee Goldberg, M.D.

Surgical Management/Update on Ventricular Assist in ACHD

J. William Gaynor, M.D.

Transplantation in ACHD

Daniel Dries, M.D.

Identifying Patients with Pacemakers-Induced Ventricular Dysfunction

Maully Shah, M.D.

Session III: Electrophysiology - Moderator: Joshua M. Cooper, M.D.

Which ACHD Patients Need an ICD?

Berardo Sarubbi, M.D., Ph.D.

Debate: Holter Monitors Should be Done Regularly in ACHD Patients

Pro: Victoria L. Vetter, M.D.

Con: Michael A. Gatzoulis, M.D., Ph.D.

Identifying Patients with Pacemakers-Induced Ventricular Dysfunction

Maully Shah, M.D.

Session IV: Cardiovascular Nursing Research in ACHD - Moderator: Yvonne Balon, R.N., B.N., M.N.

Setting Up a Research Project: From Idea to Implementation

Joy Lyon, R.N., Ph.D.

Subjects: How to Attract and Keep Them

Lynn Simko, R.N., Ph.D.

Grant Writing 101

Kathy Mussatto, R.N.

How to Disseminate Your Results

Kristien Van Deyk, M.Sc., R.N.

6 p.m. Adjourn/Dinner on your own

6:30 pm Nursing Reception and Dinner

Day 3 - Friday, June 1, 2007

8 a.m.-12:30 p.m. - Simultaneous Breakout Sessions

Session I: Forging a Patient and Provider Partnership

Chairperson: Gary Webb, M.D.

8:00 **What We Hope to Learn Today**
Yvonne Balon, R.N., B.N., M.N.

Part I: Practical Issues Facing Our Patients

8:15 **What are Truly Important “Outcomes” in ACHD: How to Assess Quality of Life**
Philip Moons, Ph.D., R.N.

8:40 **Making Information Available about ACHD Clinics**
George Warren, M.D.

Part II: The Missed Appointment: Why Does It Happen and What Can We Do About It?

9:00 **Perspectives of an Adult Cardiologist**
Jack M. Colman, M.D.

9:10 **Perspectives of a Pediatric Cardiologist**
James C. Perry, M.D.

9:20 **Perspective of an ACHD Physician’s Assistant**
Susan M. Fernandes, P.A.-C.

9:30 **Perspective of a Psychologist**
Adrienne Kovacs, Ph.D.

9:40 **Perspective of a Patient**
Donna Smith (representing ACHA)

9:50 **Panel Discussion**

Session II: ACHD Potpourri/Favorite Talks

Chairperson: Michael A. Gatzoulis, M.D., Ph.D.

8 a.m. **What We Hope to Learn Today**
Glen Van Arsdell, M.D.

8:15 a.m. **Exercise Testing: When To Do It, How To Evaluate It, and What It Means**
Michael A. Gatzoulis, M.D., Ph.D.

8:45 a.m. **ECHO, CT, MRI and Angiography: State of the Art: Imaging the Adult with CHD in 2007**
Andrew Taylor, M.D.

9:15 a.m. **Assessing Ventricular Function in the Adult with CHD: State of the Art in 2007**
Andrew Redington, M.D.

9:45 a.m. **Tissue Doppler in ACHD – When Should It be Used?**
David Sahn, M.D.

10:15 a.m. **Adjourn**

Day 3 - Friday, June 1, 2007

10:15 a.m. **Break/Poster Session #3**

11 a.m.-12:30 p.m. - Simultaneous Breakout Sessions

Session I: Avoiding Another “Lost Generation”: Transition and Transfer of Pediatric CHD Patients

Moderators: Alison Knauth, M.D., Desirée Fleck, R.N., C.R.N.P.

- 11:00** **Objectives of the Transition Process**
Gary Webb, M.D.
- 11:15** **How to Design a Transition Program**
Adrienne Kovacs, Ph.D., C.Psych
- 11:30** **Measuring the Effectiveness of a Transition Program**
Philip Moons, Ph.D., R.N.
- 11:45** **What a Parent of a Pediatric CHD Patient Needs to Know About Transition & Transfer**
Parent TBD
- 12:00** **How Patients Can Make Transition Happen**
Tom Grady, M.B.A. (representing ACHA)

Session II: ACHD Potpourri/Favorite Talks

Chairperson: Ziyad E. Hijazi, M.D.

- 11:00** **ACHD Interventional Decisions, Outcomes, and Complications**
Eric Horlick, M.D.
- 11:30** **Right Ventricular Remodeling Surgery and Prediction of Operative Outcomes**
Pedro J. del Nido, M.D.
- 12:00** **Mechano-Electric Feedback in ACHD: From Basics to Therapeutics**
Berardo Sarubbi, M.D., Ph.D.
- 12:30 p.m.** **Move to General Session Room**

Original Oral Presentations in ACHD – Part III - David Sahn, M.D., Barbara J. Mulder, M.D., Ph.D., and Joy Lyon, R.N., Ph.D.

- 12:45 p.m.** **Winning Abstract #3**
- 1 p.m.** **Winning Abstract #2**
- 1:15 p.m.** **Winning Abstract #1 - Outstanding Investigator Award**
- 1:30 p.m.** **What We Have Learned Today**
Erwin Oechslin, M.D.
- 1:45 p.m.** **Participants Get Box Lunches for “Rapid-Fire” Breakout Sessions**

Day 3 - Friday, June 1, 2007

Session I: Cardiac Arrhythmia Surgery - Moderator: Glen Van Arsdell, M.D.

Indications and Outcomes of the Maze Procedure

Maully Shah, M.D.

Practical and Technical Challenges in Pacing ACHD Patients

Louise Harris, M.D.

The Surgical Contribution to Late Arrhythmogenesis: Is it the Cut or the Underlying CHD Substrate?

Thomas L. Spray, M.D.

Session II: ACHD Cardiac MRI/CT - Moderator: Welton M. Gersony, M.D.

Pitfalls and Caveats in MRI

Mark A. Fogel, M.D.

Pitfalls and Caveats in CT

Harold Litt, M.D., Ph.D.

What to Expect in the Next Decade

Anne Marie Valente, M.D.

Session III: ACHD Exercise - Moderator: Jolien Roos-Hesselink, M.D.

The Six Minute Walk Test

Sara Thorne, M.D.

Cardiopulmonary Testing

Stephen M. Paridon, M.D.

Athletics and the CHD Patient

Jolien Roos-Hesselink, M.D.

Session IV: Educational Needs in ACHD (Nursing) - Moderator: Jeanine Harrison, R.N.

Developing an Educational Program

Kristien Van Deyk, M.Sc., R.N.

When to Start Educating the ACHD Patient

Lynn Simko, R.N., Ph.D.

Transition and Educational Needs of Former Patients

Selina Kikkenborg Berg, R.N., M.S.N.

2:45 p.m.

Free Afternoon and Evening

**Tours of The Children's Hospital of Philadelphia and
The Hospital of the University of Pennsylvania**

Day 4 - Saturday, June 2, 2007

Future Directions in ACHD

Chairperson: David Sahn, M.D.

- 8 a.m. What We Hope to Learn Today**
Mary Cannobio, R.N., M.N.
- 8:15 a.m. Biventricular Pacing in ACHD**
Seshadri Balaji, M.B.B.S.
- 8:45 a.m. The Next Wave: Anticipating Long-term Morbidities associated with Current Pediatric CHD Management**
Gil Wernovsky, M.D.
- 9:15 a.m. ACHD Research Questions that Need to be Answered**
Michelle Gurvitz, M.D., M.S.
- 9:30 a.m. ACHD Research Questions that Need to be Answered**
Michael A. Gatzoulis, M.D., Ph.D.
- 9:45 a.m. The Role that the CONCOR Database Will Play in the Next Decade**
Barbara J. Mulder, M.D., Ph.D.
- 10:15 a.m. Panel Discussion**
- 10:30 a.m. Break**

Hot Debates

- 11 a.m. "The Transition Process Should Not Be a Priority for Pediatric Cardiologists and their Hospitals"**
Pro: Philip Moons, Ph.D., R.N.
Con: Susan M. Fernandes, M.H.P., P.A.-C.
- 11:30 a.m. "Women with CHD Need a Different Approach"**
Pro: Barbara J. Mulder, M.D., Ph.D.
Con: Andrew Redington, M.D.
- Noon Lunch**

Day 4 - Saturday, June 2, 2007

Afternoon Plenary Session

Chairperson: Folkert Meijboom, M.D.

- 1 p.m. GOSH to GUCH – 50 Years with Cardiac Surgeons**
Jane Somerville, M.D.
- 1:20 p.m. What the Adult Congenital Heart Association Will Achieve in the Next Decade**
Amy Verstappen, M.Ed.
- 1:40 p.m. Designing a Contemporary ACHD Practice Essential Cardiovascular Elements**
Erwin Oechslin, M.D.
- 2 p.m. Nursing Role**
Desirée Fleck, R.N., C.R.N.P.
- 2:20 p.m. Which Consultants Do You Need?**
Joseph K. Perloff, M.D.
- 2:40 p.m. What We Have Learned Today**
Michael Landzberg, M.D.
- 3 p.m. Closing Reception**
Course in Review: Current Status and Future Directions for ACHD
Gary Webb, M.D.
- 4:30 p.m. Adjourn**