21st Annual

Echocardiography in Pediatric and Adult Congenital Heart Disease

October 9-12, 2005

For additional information contact:
Phone: 507-266-6703 or 507-284-0536
FAX: 507-266-7403
E-mail: echocme@mayo.edu
21st Annual
Echocardiography in Pediatric and Adult Congenital Heart Disease

Special Emphasis: Top 10 CHD Lesions

October 9-12, 2005

Course Director: Patrick W. O'Leary, M.D.
Mayo Clinic
Rochester, Minnesota

Co-Sponsored By:
American Society of Echocardiography and Mayo Clinic College of Medicine
Faculty

Program Director

Patrick W. O’Leary, M.D.
Associate Professor of Pediatrics, Mayo Clinic College of Medicine; Consultant, Division of Pediatric Cardiology; Physician Coordinator, Pediatric Echocardiography Laboratory

Mayo Faculty

Naser M. Ammash, M.D.
Assistant Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Cardiovascular Diseases and Internal Medicine

Peter J. Bartz, M.D.
Fellow in Training, Division of Pediatric Cardiology

Allison K. Cabalka, M.D.
Associate Professor of Pediatrics, Mayo Clinic College of Medicine; Consultant, Division of Pediatric Cardiology, Director, Training Program in Pediatric Cardiology

Frank Cetta, M.D.
Associate Professor of Medicine and Pediatrics, Mayo Clinic College of Medicine; Consultant, Adult Congenital Cardiology; Chair, Division of Pediatric Cardiology

Heidi M. Connolly, M.D.
Associate Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Cardiovascular Diseases and Internal Medicine; Director, Mayo Clinic Congenital Heart Center

Joseph A. Dearani, M.D.
Associate Professor of Surgery, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Surgery

Patrick T. Fitzgerald, M.D.
Fellow in Training, Division of Pediatric Cardiology

Martha Grogan, M.D.
Assistant Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Diseases and Internal Medicine

Donald J. Hagler, M.D.
Professor of Pediatrics, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Diseases and Pediatric Cardiology; Director, Pediatric Cardiac Catheterization Laboratory

Timothy M. Olson, M.D.
Associate Professor of Medicine and Pediatrics, Mayo Clinic College of Medicine; Consultant, Division of Pediatric Cardiology

Sabrina Phillips, M.D.
Assistant Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Diseases and Internal Medicine

Francisco J. Puga, M.D.
Professor of Surgery, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Surgery

James B. Seward, M.D., FASE
Nasseff Professor of Cardiology and Professor of Medicine and Pediatrics, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Diseases, Internal Medicine, and Pediatric Cardiology

Himeshkumar J. Vyas, M.D.
Fellow in Training, Division of Pediatric Cardiology

Carole A. Warnes, M.D., M.R.C.P.
Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Diseases, Internal Medicine, and Pediatric Cardiology; Director, Adult Congenital Heart Disease Clinic; Dean, Mayo School of Continuing Medical Education

Guest Faculty

Benjamin W. Eidem, M.D., FASE
Assistant Professor of Pediatrics, Baylor College of Medicine; Director, Non-Invasive Imaging Research Laboratory, Texas Children’s Hospital, Houston, TX

Peter C. Frommett, M.D.
Associate Professor of Pediatrics, Division of Pediatric Cardiology, Medical College of Wisconsin; Director of Pediatric Echocardiography, Children’s Hospital of Wisconsin, Milwaukee, WI

L. LuAnn Minich, M.D.
Professor of Pediatrics, University of Utah, Primary Children’s Medical Center, Salt Lake City, UT

Jack Rychik, M.D.
Associate Professor of Pediatrics, University of Pennsylvania School of Medicine; Director, Fetal Heart Program at the Cardiac Center at the Children’s Hospital of Philadelphia, Philadelphia, PA
Course Description
The 21st Annual Echocardiography in Congenital Heart Disease Symposium will focus on the basics of recognizing, understanding, and imaging patients with congenital heart disease. This four-day symposium is designed to provide a comprehensive understanding of the anatomy, clinical aspects, imaging, and management of patients with congenital heart disease. This year’s format will place special emphasis on the integration of echocardiographic data into clinical management and provide for greater participant/faculty interaction. The symposium will have a distinguished faculty of pediatric and adult congenital cardiologists, as well as surgeons with expertise in medical treatment, diagnosis, and management of patients with congenital heart disease. The symposium will consist of lectures, video examples, workshops, and panel discussions. Discussions of the “Top 10” Congenital Heart Defects will be interspersed throughout the symposium. An asterisk indicates the topic is a part of this special focus group.

Course Objectives
At the conclusion of this course, the participants will have improved their ability to:
• Identify anatomic echocardiographic features of congenital heart disease and surgical procedures used to repair/palliate these defects
• Interpret 2-D echo/Doppler hemodynamics in the setting of congenital heart disease
• Demonstrate basic knowledge of anatomy and physiology of common congenital heart conditions
• Recognize limitations of echocardiography
• Utilize up-to-date treatment strategies for congenital heart patients
• Manage pre- and postoperative patients based on the echocardiographic exams
• Integrate clinical management and echocardiography in CHD
• Use additional imaging tests more cost effectively

Who Should Attend
This course is designed for pediatric and adult cardiologists, surgeons, fellows in training, and cardiac sonographers. The emphasis is on echocardiography. Participants should have a good working knowledge of echocardiography.

Credit
The American Society of Echocardiography is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Society of Echocardiography designates this educational activity for a maximum of 27 category 1 credits toward the AMA Physician’s Recognition Award. Each physician should claim only the credits that he/she actually spent in the activity.

The American Society of Echocardiography adheres to ACCME Standards regarding industry support of continuing medical education. Disclosure of faculty and commercial support sponsor relationships, if any, will be made known at the symposium.

Location
The 21st Annual Echocardiography in Congenital Heart Disease Symposium will be held in Phillips Hall located in the Siebens Medical Education Building, 1st Floor on the campus of Mayo Clinic in Rochester, Minnesota.

Registration
Early registration saves $100 in each member category. See the application for details. Your registration fee will be confirmed by mail. Registration fee includes continental breakfasts, breaks, lunches, social events, and syllabus. The deadline to register in advance is Friday, September 9, 2005. After this date, an on-site registration fee will be charged.

On-site check-in will begin at 8:30 a.m. on Sunday, October 9, 2005, Siebens Medical Education Building, Phillips Hall, 1st Floor.
Cancellation Policy
Because of advance planning requirements, a full refund will be given if you cancel in writing by Friday, September 9, 2005. A full refund minus a $100 processing fee will be given for written cancellations received after Friday, September 9, 2005. No refund will be given for no-shows.

Special Evening Events
A special buffet dinner will be held on Sunday evening, October 9, 2005, in the Nathan Landow Atrium of the Gonda Building Subway Level. In addition to an enjoyable evening of dinner, there will also be an opportunity for participants to tour the new Mayo Clinic Echocardiography Laboratory in the Gonda Building.

On Tuesday, October 11, 2005 a reception will be held at the Historic Mayowood Estate, home of Charles Mayo. This will provide attendees a chance to interact casually with faculty members and participants. A Mayowood visit is always a memorable event, however, space is limited. Course participants are given priority. We ask that attendees reserve a ticket in advance by marking the appropriate registration box.

Lodging Accommodations
Guestrooms are reserved at a special group rate for course participants at the following hotels until Saturday, September 10, 2005. Please call the hotel of your choice for reservations. When making your reservations, please identify yourself as a participant in the Mayo Congenital Echo meeting.

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<th>Address</th>
<th>Room Rate</th>
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<td>101 First Avenue SW</td>
<td>$129</td>
<td>877-623-7775</td>
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<td>507-280-6000</td>
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<td>The Kahler Hotel</td>
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<td>507-281-8000</td>
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<tr>
<td>Hilton Garden Inn Downtown</td>
<td>225 South Broadway</td>
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<td>800-445-8667</td>
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Car Rental
If you choose to rent a car while in Rochester, Avis Rent A Car has been selected to provide discounted rates for this conference. Please call 800-331-1600 and refer to the Avis Worldwide Discount number of D086845 to receive a discount off promotional rates.

Acknowledgement
Appropriate acknowledgement of all sponsors will be given at the conference.
Sunday, October 9, 2005

8:30 a.m.  Registration and Continental Breakfast

9:20 a.m.  Welcome and Course Description
Dr. Patrick W. O'Leary

INTRODUCTION TO ECHOCARDIOGRAPHY IN CONGENITAL HEART DISEASE
Dr. James B. Seward, presiding

9:30 a.m.  Segmental Approach to and Image Orientation in CHD
Dr. Frank Cetta

10:00 a.m.  Congenital Cardiac Operations: A Guide to the Surgical Procedures
Dr. Patrick W. O'Leary

10:30 a.m.  Valvular Regurgitation: Confident Evaluation in the Patient With CHD.
Dr. L. LuAnn Minich

11:00 a.m.  Echocardiography in the ICU: Strategies for Success With Case Examples
Dr. Jack Rychik

11:30 a.m.  Panel Discussion
Drs. Cetta, O'Leary, Minich, and Rychik; Dr. Seward, moderator

12:00 p.m.  Lunch – Marriott Courtyard

BEYOND CONTRACTILITY: EVALUATION OF CARDIOVASCULAR FUNCTION IN CHD
Dr. Frank Cetta, presiding

1:00 p.m.  Doppler Evaluation of Ventricular Filling: Diastology 101
Dr. Patrick W. O’Leary

1:30 p.m.  Tissue Doppler Imaging: Applications in CHD
Dr. Peter C. Frommelt

2:00 p.m.  Myocardial Strain and Strain Rate: Concepts and Clinical Use
Dr. Benjamin W. Eidem

2:30 p.m.  Vascular Physiology: Using New Technology to go Beyond Morphology
Dr. James B. Seward

3:00 p.m.  Panel Discussion
Drs. O'Leary, Frommelt, Eidem, and Seward; Dr. Cetta, moderator

3:30 p.m.  Refreshment Break - Visit Exhibits

4:00 p.m.  Daily Echo Challenge
Team Captains: Drs. Minich and Rychik
Case Presenters: Drs. Cetta, Eidem, Frommelt, Hagler, Phillips, and Vyas
Moderator: Dr. O’Leary

5:30 p.m.  Tour Mayo Clinic Echocardiography Laboratory Followed by Evening Buffet Dinner - Nathan Landow Atrium, Gonda Building, Subway Level

Monday, October 10, 2005

7:30 a.m.  Continental Breakfast – Visit Exhibits

7:55 a.m.  Overview of the Day

TOP 10 CONGENITAL HEART DEFECTS* - DETERMINING THERAPEUTIC APPROACH AND ASSESSING THE OUTCOME
Dr. James B. Seward, presiding

8:00 a.m.  Ventricular Septal Defects*
Dr. Peter C. Frommelt

8:30 a.m.  Tetralogy of Fallot*
Dr. Patrick W. O’Leary

9:00 a.m.  Transposition of the Great Arteries*
Dr. Benjamin W. Eidem

9:30 a.m.  Aortic and Pulmonary Valve Stenosis*
Dr. Donald J. Hagler

10:00 a.m.  Questions and Panel Discussion
Drs. Frommelt, O’Leary, Eidem, and Hagler; Dr. Seward, moderator

10:15 a.m.  Refreshment Break - Visit Exhibits

TOP 10 CONGENITAL HEART DEFECTS CONTINUED
Atrioventricular Septal Defects*
Dr. James B. Seward, presiding

10:45 a.m.  Clinical Perspective: Role of Echo in Surgical Management and Late Results
Dr. Francisco J. Puga

11:15 a.m.  Case Studies in Pre- and Postoperative AV Septal Defects
Dr. L. LuAnn Minich

12:00 p.m.  Questions and Panel Discussion
Drs. Puga and Minich; Dr. Seward, moderator

12:15 p.m.  Lunch - Marriott Courtyard

ABNORMALITIES OF THE LEFT HEART
Dr. James B. Seward, presiding

1:15 p.m.  LV Inflow Obstructions: Membranes, Arcades, Rings, and Other Things
Dr. Peter C. Frommelt

1:45 p.m.  Neonatal and Infant Coarctation of the Aorta*
Dr. Allison K. Cabalka

2:15 p.m.  HLHS*: Preop Evaluation and Initial Palliations – Alternative Strategies
Dr. Jack Rychik

2:45 p.m.  Evaluation of the Patient With Marfan Syndrome
Dr. Heidi M. Connolly

3:15 p.m.  Questions and Panel Discussion
Drs. Frommelt, Cabalka, Rychik, and Connolly; Dr. Seward, moderator

3:30 p.m.  Refreshment Break - Visit Exhibits

4:00 p.m.  Daily Echo Challenge
Team Captains: Drs. Cetta and Eidem
Case Presenters: Drs. Cabalka, Connolly, Fitzgerald, Minich, O’Leary, and Rychik
Moderator: Dr. O’Leary

5:30 p.m.  Adjourn - Evening free
Tuesday, October 11, 2005

7:30 a.m. Continental Breakfast – Visit Exhibits
7:55 a.m. Overview of the day

EXTENDING THE IMPACT OF ECHOCARDIOGRAPHY
Dr. James B. Seward, presiding

8:00 a.m. Fetal Echo: Influence on Management and Outcome of CHD
Dr. Jack Rychik

8:30 a.m. Intraoperative Echocardiography: Evolving From Tolerance to a Standard of Care
Dr. Benjamin W. Eidem

9:00 a.m. Echocardiography in the Cath Lab: Can the Technologies be Complimentary?
Dr. Allison K. Cabalka

9:30 a.m. Case Examples – “How Would You Manage This…”
Presenters: Drs. Cabalka, Eidem, and Rychik
Panelists: Drs. Frommelt, Minich, and O’Leary
Moderator: Dr. Seward

10:15 a.m. Refreshment Break - Visit Exhibits

MINI-SYMPOSIUM: Ebstein Anomaly
Dr. Allison K. Cabalka, presiding

10:45 a.m. Clinical Perspective – Role of Echo in Surgical Management and Late Results
Dr. Joseph A. Dearnani

11:15 a.m. Case Studies in Pre- and Postoperative Ebstein Anomaly
Dr. Patrick W. O’Leary

11:45 a.m. Questions and Panel Discussion
Drs. Dearnani and O’Leary;
Dr. Cabalka, moderator

12:00 p.m. Lunch - Marriott Courtyard

CASE STUDIES INVOLVING LATE COMPLICATIONS IN THE ADULT WITH “REPAIRED” CHD
Dr. Carole A. Warnes, presiding

1:15 p.m. Tetralogy of Fallot*
Dr. Frank Cetta

1:45 p.m. Coarctation of the Aorta*
Dr. Heidi M. Connolly

2:15 p.m. Transposition of the Great Arteries*
Dr. Carole A. Warnes

2:45 p.m. Prosthetic Conduits
Dr. Naser M. Ammash

3:15 p.m. Questions and Panel Discussion
Drs. Cetta, Connolly, and Ammash; Dr. Warnes, moderator

3:30 p.m. Refreshment Break - Visit Exhibits Mayowood Video

4:00 p.m. Daily Echo Challenge
Team Captains: Drs. Cabalka and Frommelt
Case Presenters: Drs. Ammash, Bartz, Eidem, Hagler, Minich, and Warnes
Moderator: Dr. O’Leary

5:30 p.m. Adjourn

6:15 p.m. Transportation departs the North side of the Siebens Medical Education Building
6:30 p.m. Reception at Historic Mayowood

Wednesday, October 12, 2005

7:30 a.m. Continental Breakfast – Visit Exhibits
7:55 a.m. Overview of the Day

VASCULAR AND INFLAMMATORY CV DISORDERS: EVALUATION AND THERAPY
Dr. Patrick W. O’Leary, presiding

8:00 a.m. Coronary Arterial Anomalies
Dr. Peter C. Frommelt

8:30 a.m. Anomalous Pulmonary Venous Connections*
Dr. Frank Cetta

9:00 a.m. Kawasaki Syndrome: How Can I Tell When the Coronary Arteries Are Abnormal?
Dr. L. LuAnn Minich

9:30 a.m. Pericardial Disorders: Effusion, Tamponade, and Constriction
Dr. Martha Grogan

10:00 a.m. Questions and Panel Discussion
Drs. Frommelt, Cetta, Minich, and Grogan; Dr. O’Leary, moderator

10:15 a.m. Refreshment Break – Visit Exhibits

MINI-SYMPOSIUM: THE FAILING HEART
Dr. Patrick W. O’Leary, presiding

10:45 a.m. What Makes the Heart Fail? New Insights From Defective Genes
Dr. Timothy M. Olson

11:15 a.m. LV Dysfunction: Defining the Etiology and Severity by Echocardiography
Dr. Benjamin W. Eidem

11:45 a.m. Questions and Panel Discussion
Drs. Olson and Eidem; Dr. O’Leary, moderator

12:00 p.m. Lunch - Marriott Courtyard

THE FUNCTIONAL UNIVENTRICULAR HEART
Dr. Frank Cetta, presiding

1:15 p.m. UVH: Evaluation Pre- and Post Fontan Operation
Dr. Patrick W. O’Leary

2:00 p.m. Discussion

2:15 p.m. Daily Echo Challenge – Cases Involving the Functional UVH
Case Presenters: Drs. Bartz, Eidem, Fitzgerald, Frommelt, Minich, and Vyas
Moderator: Dr. O’Leary

3:30 p.m. Adjourn

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October 9-12, 2005

Mail Form and Payment to:  
Mayo Clinic  
Attn: Sheryl Dohrmann/Sheila Fick  
200 1st Street SW/GO-06-138SW  
Rochester, MN  55905

Phone or FAX Application to:  
Telephone: 507-266-6703  
507-284-0536  
Fax: 507-266-7403  
E-mail: echocme@mayo.edu

(Please print or type all information. You may duplicate this form for multiple registrations.)

Name_______________________________________________________________________________

Degree  MD    PhD    RN     RCS    RDCS    RDMS    Other___________

Institution ___________________________________________________________________________

E-mail Address_______________________________________________________________________

Which is your preferred mailing address:  ☐ Work/Business  ☐ Home
Street address for the above selected mailing:____________________________________________

City____________________State/PV________ZIP/Postal Code________Country_________________

Telephone (_________)_________________________ FAX (_________)________________________

If you need special accommodations, please check here. Please indicate your needs here:
_______________________________________________________________________________________
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Special Meal Request (check below):  ☐ Kosher   ☐ Vegetarian

Mayowood Ticket (Limited number of available tickets):
☐ Yes  ☐ No

Payment Received:

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* Registrants in the reduced fees category are required to submit with the registration form proof of licensure, a business card, or a letter written on official letterhead and signed by a department supervisor verifying status. Reduced fee includes: Fellow/Resident in Training, Physician Assistant, Nurse, Sonographer, or Emeritus Staff.

Payment must accompany application.

☐ Check (payable to UltraEcho, Ltd. - CHD in U.S. dollars drawn on a U.S. bank)

☐ Credit Card:  ☐ Visa  ☐ MasterCard  ☐ Discover

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Received in Office ______________ Entered ______________ Confirmation Sent ______________

Cardholder's Name

Card Number   V-Code (3 digits on back of credit card)   Expiration Date