



16th Annual Congenital Heart Disease in the Adult

A Combined International Symposium



June 25 - 28, 2006

Skamania Lodge, Stevenson, Wash.

Program Co-Directors

David J. Sahn, M.D., M.A.C.C.
Oregon Health & Science University

Peter P. Liu, M.D., F.R.C.P.(C), F.A.C.C.
University of Toronto, University Health Network

Gary D. Webb, M.D., F.R.C.P.(C), F.A.C.C.
Philadelphia Adult Congenital Heart Center

Program Co-Directors

David J. Sahn, M.D., M.A.C.C.
Oregon Health & Science University

Peter P. Liu, M.D., F.R.C.P.(C.), F.A.C.C.
University of Toronto, University Health Network

Gary D. Webb, M.D., F.R.C.P.(C.), F.A.C.C.
Philadelphia Adult Congenital Heart Center

Guest Faculty

Mary Cannobio, R.N., M.N., F.A.A.N.
UCLA School of Nursing

John Deanfield, M.D.
Great Ormond Street Hospital

Welton Gersony M.D
Babies & Children's Hospital, Columbia University

Michael A. Gatzoulis, M.D., Ph.D., F.A.C.C.
Royal Brompton Hospital

William Hellenbrand M.D.
Columbia University

University of Toronto Faculty

Jeanine Allen-Brunt, R.N., M.N., A.C.N.P.
Jack M. Colman, M.D., F.R.C.P.C., F.A.C.C.
Louise Harris, M.D., Ch.B., F.A.C.C.
Eric Horick, M.D., F.R.C.P.C.
Adrienne Kovacs, Ph.D.
Erwin Oechslin, M.D.

Michael Landzberg, M.D.
Boston Children's Hospital

Harold Litt M.D., Ph.D.
University of Pennsylvania Medical Center

Pamela D. Miner, R.N., M.N., N.P.
UCLA Adult Congenital Heart Disease Center

Philip Moons, Ph.D, R.N., N.F.E.S.C., F.A.H.A.
Catholic University of Leuven/University Hospitals Leuven, Belgium

Michelle J. Nickolaus, N.P.

Andrew N. Redington, M.D., F.R.C.P.(C.)
Candice Silversides, M.D., M.S., F.R.C.P.(C.)
Samuel C.B. Siu, M.D., F.R.C.P.(C.), F.A.C.C.
Glen Van Arsdell, M.D., F.R.C.S.(C.)
William G. Williams, M.D., F.R.C.S.(C.)

Penn State Heart & Vascular Institute
Rick A. Nishimura, M.D., F.A.C.C.
Mayo Clinic College of Medicine

Disty Pearson, P.A.-C.
Boston Children's Hospital

Joseph K. Perloff, M.D., F.A.C.C.
UCLA Medical Center

Jane Somerville, M.D.
University College London Trust Heart Hospital

Thomas Spray, M.D.
Children's Hospital of Philadelphia

Oregon Health & Science University Faculty

Seshadri Balaji, M.D., M.R.C.P., F.A.C.C.
Craig Broberg, M.D.
Grant H. Burch, M.D., F.A.C.C.
Sumeet Chugh, M.B.B.S., F.A.C.C.
Michael Jerosch-Herold, Ph.D.
Sanjiv Kaul, M.D., F.A.C.C.

Judith Therrien, M.D., F.R.C.P.(C)
McGill University, Montreal, Quebec

Gruschen Veldtman, M.B.Ch.B. M.R.C.P. (U.K.)
Wessex Cardiothoracic Centre

Amy Verstappen
Adult Congenital Heart Association

Carole A. Warnes, M.D., M.R.C.P., F.A.C.C.
Mayo Clinic College of Medicine

Gil Wernovsky, M.D.
Children's Hospital of Philadelphia

Jack Kron, M.D., F.A.C.C.
Jack H. McNulty, Jr., M.D., F.A.C.C.
Mary Minette, M.D.
Brian J. Morrison, M.D., F.A.C.C.
Irving Shen, M.D.
Ross M. Ungerleider, M.D., F.A.C.C.

Program Overview

This program provides practicing cardiologists with expertise and an understanding of the multidisciplinary strategies required for caring for congenital heart disease in the adult. It is designed to present a comprehensive review of the problems and issues related to the more common forms of congenital heart disease in the adult, including

- methods of diagnosis
- methods of treatment
- career and lifestyle counseling
- pregnancy: care and counseling
- latest large multicenter studies related to natural history of congenital heart disease in adults and treatment outcomes
- postoperative residua of congenital disease (functional results of congenital heart surgery and post-operative electrophysiological sequelae, arrhythmias, and their management)

This sixteenth annual program in the popular and comprehensive, state-of-the-art series on Congenital Heart Disease in the Adult incorporates new long-range follow-up information. It includes in-depth review/discussion of heart failure management and resynchronization and an in-depth session on cardiac MRI. The sessions are oriented to emphasize the management and physiology of unoperated, as well as post-operative, congenital heart disease.

Program participants will have the opportunity to attend small group breakout sessions with faculty to discuss cases studies raised by

either faculty or participants. These sessions are a wonderful opportunity for you to bring and present your own problem cases for discussion with our faculty, as are the sessions in cardiac MRI and CT, resynchronization and heart failure/diastolic function.

A distinguished faculty of pediatric and adult cardiologists, surgeons and other specialists with expertise in medical treatment, diagnosis, cardiac imaging, and postoperative care and evaluation of adults with congenital heart disease has been assembled to provide a comprehensive four-day program focused on these patients and their impact on the spectrum of cardiology practice.

Program Objectives

Upon completion of the program, attendees should be able to—

- better differentiate and evaluate the spectrum of congenital heart disease in the adult population
- formulate an approach to the diagnosis of the adult patient with congenital heart disease
- acquire an approach towards the counseling and care of patients facing pregnancy with congenital heart disease — a unique adult challenge
- develop an algorithm for the follow-up of common groups of adult patients with congenital heart disease
- appreciate unique adult problems, such as heart failure and arrhythmias, and how these impact a patient's treatment.
- understand the impact of the growth of this population and their complex health care needs on the medical profession

Target Audience

The Symposium is designed for a broad spectrum of health professionals, including pediatric and adult cardiovascular specialists, cardiovascular surgeons, specialists in cardiac imaging, internal medicine specialists, and nurse clinicians and nurse practitioners who share an interest in this challenging and growing population.

Location

The course will be held at Skamania Lodge, situated in the beautiful Columbia River Gorge. June is a peak flower time in the Gorge, with warm and sunny weather for scenic drives or walks beneath towering cliffs, waterfalls, and old-growth forests. Skamania Lodge, a rustically designed but modernly appointed “Grand Cascade Lodge” close to both the Washington and Oregon coasts, is only 32 miles from the Portland Airport and five minutes from the renowned Bridge of the Gods. Lodge room options include mountain or river views as well as some rooms with fireplaces.

The Lodge has enhanced and expanded meeting space, and new luxury features and amenities. The Lodge offers horseback riding, tennis, swimming, golf, an athletic club, a spa and a gourmet restaurant. The area also provides wonderful opportunities for hiking, whitewater rafting, fishing and a scenic heritage railway trip to Mount Hood. We will offer a variety of excursions, including a group hike, for your free afternoon. We suggest that you bring good hiking boots, a water bottle and a rain jacket or poncho if you plan to hike in the area.

An evening dinner cruise aboard the historic sternwheeler Columbia Gorge has been arranged for course attendees and their families. The cost for participants is included in the meeting price. Additional tickets for family members can be purchased on site.



schedule

Sunday, June 25, 2006

7:00 a.m. **Registration and Continental Breakfast**

8:00 a.m. **Opening Remarks** **Drs. Sahn and Kaul**

Concurrent Session A
Diagnostic Methods: What Works Best?
Dr. Sahn, presiding

8:15 a.m. *What Do I Need, How Do I Get It? — Convince Me!* Dr. Therrien

8:35 a.m. *What Can I Get from Echo?* Dr. Siu

8:55 a.m. *MRI Physics for the Clinician* Dr. Jerosch-Herold

9:15 a.m. *What I Get from MRI — A Clinician's View* Dr. Broberg

9:35 a.m. *Uses and Capabilities of CT — When Does it Fit?* Dr. Litt

9:55 a.m. **Discussion and Questions**

Concurrent Session B
Clinical Case Studies: You Can Get All the Advice You Ever Wanted
from the Experts and from the Participants
Dr. Warnes and Webb, moderators
Experts: Drs. Gatzoulis, Perloff, Shen, Balaji, Redington and Landzberg

10:15 a.m. **Break**

Why Do Interdisciplinary Centers Work? **Dr. Liu, Chair**

10:45 a.m. *What Does a Patient Want and Need?
How Do They Arrange to Get It?* Ms. Allen, Ms. Verstappen

11:10 a.m. *Three Perspectives on Center Development* Drs. Webb, Oechslin
and Broberg

12:10 p.m. **Questions and Discussion**

12:30 p.m. **Lunch**
Continuing Registration

Heart Failure Management in ACHD **Dr. Wernovsky, Chair**

1:30 p.m. *Early Detection: Right and Left Ventricular Dysfunction* Dr. Warnes

2:00 p.m. *Medical Treatment* Dr. Liu

2:30 p.m. *Resynchronization* Dr. Harris

3:00 p.m. *A Surgeon's Perspective on Heart Failure* Dr. Spray

3:30 p.m. **Questions and Discussion**

3:45 p.m. **Break**

4:10 p.m. *Case Studies* Dr. Colman, Chair
Drs. Oechslin and Warnes

4:40 p.m. **Debate: PFO Device Closure**
*Pro: Put Devices in Them All, then You
Trap Evil Agents on the Right Side* Dr. Landzberg

*Con: Hands Up, Cath Cowboy:
Where's the Evidence?* Dr. Nishimura

5:20 p.m. *Adjournment*

6:00 p.m. *Reception: Complimentary Northwest Regional Wine*

7:15 - 9:30 p.m. **Special Nursing Symposium** **Keyonte Address:
Mary Canobbio**
*A 25-year Perspective on Caring for Adults with
Congenital Heart Disease: What Experience Has
Taught Us, and What the Future Holds.*

(Dinner will be provided for health professionals attending this symposium.)

Monday, June 26, 2006

7:00 a.m. Continental Breakfast

The Right Ventricle: What Is It? How Good Is It? How to Keep it Happy or Restore It

Dr. Spray, Presiding

8:00 a.m. *What is an RV? Where Did It Come From? What Can It Do?*

Dr. Perloff

8:30 a.m. *Assessing RV function and Mechanics – My Perspective*

Dr. Gatzoulis

9:00 a.m. *What Do We Know about Recovery of RV function? What Are the Thresholds?*

Dr. Therrien

9:30 a.m. *Pulmonary Valve Restoration, Percutaneous Methods: The Bonhoeffer Legacy*

Dr. Deanfield

10:00 a.m. *What Can a Surgeon Do that Isn't Done So Well Percutaneously? What Is the Role for Hybrid Procedures? Outcomes Data*

Dr. Williams

10:30 a.m. Questions and Discussion

10:40 a.m. Break

11:00 a.m. *Pregnancy Management*

Dr. Siu

11:30 a.m. *Special Issues for Women with Congenital Heart Disease*

Dr. Somerville

12:00 p.m. Questions and Discussion

12:15 p.m. Lunch

1:15-3:15 p.m. Workshops (Choose two)
Surgery and Catheter Intervention

Dr. Williams, Chair
Drs. Spray, Landzberg, Burch, Van Arsdell and Horlick

Arrhythmia Management

Dr. Balaji, Chair
Drs. Kron, Chugh and Harris

Developing Strategies to Improve Quality of Life Outcomes in Adults with CHD

Ms. Allen, Chair
Ms. Miner, Ms. Pearson, Ms. Nickolaus, Ms. Cannobio, Mr. Moons

Medical Pharmacological Management Issues

Dr. Liu, Chair
Drs. Colman, Wernovsky, Redington

3:15 p.m. Break

Pre-cruise Session: Riverboat Preparedness

3:45 p.m. Case Studies

Dr. Sahn, Chair
Drs. Veldtman and Silversides

4:30 p.m. Debate: Manifestations of ACHD Heart Failure: Neurohormonal Assessment Predicts Outcomes

Pro: Dr. Liu
Con: Dr. Nishimura

5:15 p.m. Adjournment

6:15 p.m. Sternwheeler Dinner Cruise on the Columbia River

Post-Cruise Bonfire — Sing along with and roast the faculty

Tuesday, June 27, 2006

7:00 a.m.	Continental Breakfast		
8:00 a.m.	The Written Record, the Road Upward: Milestones in the Published Body of Knowledge about Characterization, Detection and Treatment of CHD	Dr. Morrison	
Fontan Survivors: the Failing Single Ventricle		Dr. Webb, Presiding	
8:30 a.m.	<i>Medical Thresholds Reflecting the Need to Redo a Fontan</i>	Dr. Veldtman	
9:00 a.m.	<i>EP Thresholds Reflecting the Need for Redo Surgery: What Can We Do?</i>	Drs. Balaji and Harris	
9:40 a.m.	<i>Strategies I Use for Revising Fontan Procedures in Adults</i>	Dr. Spray	
10:15 a.m.	<i>Outcomes Data Related to Fontan Revisions</i>	Dr. Redington	
10:40 a.m.	<i>Neurodevelopmental Outcomes: What Do We Know about Fontan Patients?</i>	Dr. Wernovsky	
11:00 a.m.	Questions and Discussion		
11:15 a.m.	Break		
11:40 a.m.	<i>Advances in Medical and Catheter Ablation Therapies for Arrhythmias in Patients with CHD</i>	Drs. Harris and Balaji	
12:30 p.m.	Adjournment		
	Afternoon Free for Activities		
	<i>We suggest participants and their families bring good walking/hiking shoes, water bottles, and rain jackets or ponchos for hiking and other outdoor activities around the area. We will organize a faculty-led group hike.</i>		

schedule

Wednesday, June 28, 2006

7:00 a.m.	Continental Breakfast		12:00 p.m.	Lunch	
	Caring for the Whole Person Grown-up CHD: What Do You Expect After What They Have Been Through?	Dr. Sahn, Presiding		Catheter Treatment of Anatomical Problems	Dr. Gersony, Presiding
8:00 a.m.	<i>Neurodevelopmental Follow-up of Infants Predicts that They Will Adapt Poorly as Adults: What Should be Done About It?</i>	Dr. Wernovsky	1:15 p.m.	<i>Advances in Catheter Intervention for CHD: What's the Latest?</i>	Drs. Burch and Horlick
8:30 a.m.	<i>Psychosocial Adjustment in Adults Who Have CHD</i>	Dr. Kovacs	1:45 p.m.	<i>Transcatheter Treatment of Coarctation and Recoarctation in Adults: Methods and Outcomes</i>	Dr. Hellenbrand
9:00 a.m.	<i>What Can Surgeons Do to Minimize the Risk of Neurodevelopmental Problems in Post-op Patients?</i>	Dr. Van Arsdell	2:10 p.m.	<i>Debate Transcatheter Implantation is the Method of Choice for Pulmonary Valve Replacement in Postoperative CHD Patients</i>	Pro: Dr. Deanfield Con: Dr. Redington
	Special Session	Dr. Somerville, presiding	2:50 p.m.	<i>What Are the Best Methods for Aortic Surveillance and Prediction of Risk in Patients with Aortic Valve Disease or Those Post-op Coarctation Repair?</i>	Dr. Deanfield
9:25 a.m.	<i>How Do Patients Decide Where They Go? How Do They Network? Lessons Learned</i>	Ms. Verstappen and Dr. Warnes	3:10 p.m.	Questions and Discussion	
10:00 a.m.	<i>Where Are Most of the Patients? How and Where Did They Get Lost? Why do We Need to Get Beyond the Tip of the Iceberg?</i>	Dr. Webb	3:20 p.m.	Break	<i>Course evaluation. CME certificates will be mailed to participants.</i>
10:20 a.m.	Questions and Discussion		3:45 p.m.	Controversy: I Prefer the Ross Procedure for Young Adults Who Need AVR	Pro: Dr. Ungerleider Con: Dr. Williams
10:35 a.m.	Break		4:30 p.m.	The Mentor's Lecture: Closing Lecture in Honor of William F. Friedman, M.D., F.A.C.C.	Dr. Sahn, presiding
11:00 a.m.	Workshops (Choose one) <i>Surgery and Catheter Intervention</i>	Dr. Williams, Chair Drs. Spray, Landzberg, Burch, Shen, Van Arsdell, Horlick and Hellenbrand		<i>Why Did I Choose to Focus on Care of Adults with Congenital Heart Disease for My Career? What Do I Hope to Accomplish by My Endeavors?</i>	Dr. Gatzoulis
	<i>Arrhythmia Management</i>	Dr. Deanfield, Chair Drs. Kron, Chugh, Balaji and McAnulty	5:00 p.m.	Adjournment	
	<i>Imaging in Adult CHD</i>	Dr. Broberg, Chair Drs. Jerosch-Herold, Siu, Litt, Therrien and Minette			
	<i>Medical Pharmacological Management Issues</i>	Dr. Liu, Chair Drs. Colman, Silversides, Wernovsky and Perloff			

*This 16th Annual Symposium is dedicated to the memory of the late
Dr. William F. Friedman F.A.C.C. (1936-2005)
—Teacher, Mentor and Scientist dedicated to knowledge about and care of
Congenital Cardiac Disease patients.*

Accreditation

Oregon Health & Science University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Credit

American Medical Association: OHSU School of Medicine Division of CME designates this educational activity for a maximum of 25.75 AMA PRA Category 1 Credit(s)[™]. Each physician should only claim credits commensurate with the extent of their participation in the activity.

Additional Information

For questions about registration, please contact the OHSU Division of Continuing Medical Education. Phone: (503) 494-8700 or (800) 452-1048; e-mail cme@ohsu.edu; fax (503) 494-0392.

For all other inquiries, please contact Dr. David Sahn's office, (503) 494-2191.

Fee Information

Payment by check or credit card must accompany your registration. There is a \$100 discount for registrations postmarked or faxed on or before May 20, 2006; please see the registration form for details. To claim a reduced fee as an ACC member or emeritus member, please include your membership number in the space provided on the form. Physicians who are fellows or residents must provide a letter signed by their program director verifying their status; nurses, physician assistants and technologists should include proof of licensure.

Syllabus, continental breakfasts, breaks, lunches and dinner cruise for the registrant are included in the registration fee. Guest tickets for the dinner cruise may be purchased on site.

Cancellations

Cancellation requests must be received in writing prior to June 14, 2006, and a cancellation fee of \$100 will apply. No refunds can be issued in response to requests received after that date.

Should conditions warrant, OHSU reserves the right to cancel this program with a full tuition refund. No liability can be assumed for expenses incurred by registrants in connection with travel or other arrangements.

Lodging

To secure your room at the Skamania Lodge, please call (800) 221-7117 and state that you will be attending the International Adult Congenital Heart Disease Symposium. Room rates for single/double are \$159.00, \$189.00 or \$219.00 per night. There are a few larger family accommodations available as well at a special rate; please ask about them if interested. The hotel room block is scheduled to be held until May 12, 2006, but may be sold out before this date. We advise you to register and reserve your lodging as soon as possible. When you make your reservation, please be sure to ask about any additional resort fees, early departure fees or cancellation penalties.

Transport between the Lodge and Portland International Airport is available from Blue Star Shuttle. For reservations, call (800) 247-2272 or (503) 249-1837. It may be more convenient to rent a car. The drive is short, the roads are good, and the scenery in the Gorge is superb!

Please Note

Smoking is prohibited in all meeting rooms.

We encourage participation by all individuals. If you have a disability, advance notification of any special needs will help us better serve you.

Faculty and program subject to change without notice. Space is limited, register early.

MEMBERSHIP NUMBER (if applicable) _____

Registration fees

(Check appropriate category; payment must accompany registration)

- | | Postmarked or faxed
by May 20, 2006 | Postmarked or faxed
after May 20 |
|---------------------------------------|--|-------------------------------------|
| <input type="checkbox"/> ACC Member | __ \$ 950.00 | __ \$1,050.00 |
| <input type="checkbox"/> Nonmember | __ \$1,100.00 | __ \$1,200.00 |
| <input type="checkbox"/> Reduced Fees | __ \$ 750.00 | __ \$ 850.00 |

(Please check reduced fee category below and see Registration Information for documentation which must accompany registration.)

- Fellow in Training Resident Nurse
 Physician Assistant Technologist Emeritus ACC Member

Payment Form (please indicate)

- I have enclosed my check made payable to OHSU Continuing Medical Education for \$ _____ (U.S. Currency).
- Please charge my
 Visa
 Mastercard

Amount \$ _____

Card Number _____ Exp. _____

Name _____

Address _____

City/State/Zip _____

Day Phone _____ Fax no. _____

Email address _____

Professional Degree:

- MD
 DO
 PhD
 RN
 Other _____
(Specify)

Practice Specialty

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> Adult Cardiology | <input type="checkbox"/> Pediatric Cardiology | <input type="checkbox"/> CV Surgery |
| <input type="checkbox"/> Internal Medicine | <input type="checkbox"/> Pharmacology | <input type="checkbox"/> Radiology |
| <input type="checkbox"/> Family/General | <input type="checkbox"/> Other _____ | |

Please return form and payment to:

CME-L602, Oregon Health & Science
University, 3181 SW Sam Jackson Pk Rd
Portland, OR 97239-3098

For credit card payment you may fax form to (503) 494-0392

For questions about the symposium or registration, please contact OHSU Division of Continuing Medical Education.

Phone: (503) 494-8700 or (800) 452-1048; or email cme@ahsu.edu