

Masterclass in Cardiac Morphology: Living Anatomy

March 5-7, 2010

Course Directors:

Robert H. Anderson, MD FRCPATH
Visiting Professor, Pediatrics
Medical University of South Carolina

Anthony M. Hlavacek, MD MSCR
Assistant Professor, Pediatrics
Medical University of South Carolina

Sponsored By:

The Children's Heart Program of South Carolina and
The Office of Continuing Medical Education, College of Medicine
Medical University of South Carolina, Charleston, SC

Location:

Medical University of South Carolina
Thurmond/Gazes Research Building
114 Doughty Street, Room 125

www.musckids.com/heart/conferences



The Children's Heart Program
of South Carolina
Medical University of South Carolina
165 Ashley Avenue
MSC 915
Charleston, SC 29425

Masterclass Program

Friday, March 5

Noon Registration

Session 1 – Normal Anatomy

- 1:00 Videodemonstration of anatomy of normal heart
- 1:30 Attitudinal anatomy as shown with CT angiography
- 2:00 Living anatomy using 3D echocardiography
- 2:30 Discussion and hands-on with specimens
- 3:00 Break

Session 2 – Interatrial Communications

- 3:30 Didactic presentation--interatrial communications
- 3:50 Videodemonstration of interatrial communications
- 4:10 Atrial septal morphology using advanced imaging
- 4:50 Discussion and hands-on with specimens
- 5:30 Adjourn

Saturday, March 6

Session 3 – Holes between the ventricles

- 9:00 Defining and classifying holes between the ventricles
- 9:45 Discussion
- 10:00 Videodemonstration of ventricular communications
- 10:30 Interrogation of ventricular septum—Imaging 1
- 11:00 Break
- 11:30 Interrogation of ventricular septum—Imaging 2
- 11:45 Clinical importance of the anatomic findings
- 12:00 Discussion and hands-on with specimens
- 12:45 Lunch

Session 4 – Atrioventricular Septal Defects

- 1:30 Basic anatomy of atrioventricular septal defects
- 2:00 Videodemonstration of basic features
- 2:20 Advanced Imaging of basic features
- 3:00 Discussion and hands-on with specimens
- 3:30 Break
- 4:00 Complexity in atrioventricular septal defects
- 4:20 Videodemonstration of complex features
- 4:35 Advanced imaging analysis of complexity GS
- 5:05 Discussion and hands-on with specimens
- 5:30 Adjourn

Sunday, March 7

Session 5 - Totally anomalous pulmonary venous connection

- 8:30 Anatomy of anomalous pulmonary venous anatomy
- 8:45 Videodemonstration of TAPVC
- 9:00 Advanced Imaging of TAPVC
- 9:30 Clinical significance of TAPVC
- 9:45 Discussion and hands-on with specimens
- 10:00 Break

Session 6 - Isomerism of the atrial appendages

- 10:30 What is isomerism?
- 11:00 Videodemonstration of anatomic features
- 11:30 Advanced imaging of isomeric hearts
- 12:10 Clinical significance of stratifying heterotaxy
- 12:30 Discussion and final hands-on with specimens
- 1:00 Adjourn

Program Faculty

Guest Faculty

Bill Devine, BS

Curator, Frank E. Sherman and Cora C. Lenox Heart Museum
Children's Hospital of Pittsburgh of UPMC

Steven A. Webber, MD, MBChB

Chief, Pediatric Cardiology
Children's Hospital of Pittsburgh of UPMC

Diane E. Spicer, BS

Pathologists' Assistant, University of Florida
Department of Pediatric Cardiology, Tampa FL

MUSC Pediatric Cardiology Faculty

Girish S. Shirali, MBBS

Director, Pediatric Echocardiography
Professor of Pediatrics and OB/GYN

Sinai C. Zyblewski, MD

Assistant Professor, Pediatrics

Brad A. Friedman, MD

Fellow, Pediatric Cardiology

Meeting Coordinator

Debbie Bryant

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(843) 792-3284 Fax

General Information

Course Description

This comprehensive course will use both didactic presentations and live demonstrations to illustrate congenital cardiac morphology. Specimens from the Heart Museum at the Children's Hospital of Pittsburgh, as well as collections from the University of Florida in Gainesville, FL and All Children's Hospital in St. Petersburg, FL will be used to cover a wide range of congenital cardiac malformations. In addition, participants will be introduced to the utility of three-dimensional echocardiography, computed tomographic angiography, and magnetic resonance imaging to demonstrate cardiac morphology.

For each lesion, Professor Anderson will first give a didactic presentation emphasizing key morphologic features, followed by video-demonstrations using pathology specimens provided by Bill Devine and Diane Spicer. The morphology will then be "brought to life" as the imaging team led by Drs. Shirali and Hlavacek use three-dimensional echocardiography, computed tomographic angiography, and magnetic resonance imaging to reinforce the concepts introduced by Professor Anderson. Steve Webber will discuss the incidence and clinical significance of selected malformations. After each session, there will be a panel discussion with the course faculty, and questions from the audience will be encouraged. The cardiac specimens will be available for supervised individual study during each break.

For those interested in further instruction in cardiac morphology, this course has been designed as part of a series of courses sponsored by a collaboration between the Children's Heart Program of South Carolina and the Heart Center at the Children's Hospital of Pittsburgh of UPMC. Each year, participants may select to attend either a fall course hosted in Pittsburgh or a spring course hosted in Charleston. The next course in this series will be held October 6-8, 2010 in Pittsburgh. Over the span of three years, participants will cover the full spectrum of congenital cardiac malformations.

Who Should Attend

This course is designed for seasoned, junior, and trainee cardiologists, cardiothoracic surgeons, pathologists, pathologists' assistants, cardiac morphologists, and other medical professionals interested in congenital heart disease.

Enrollment And Fees

The registration fee is \$450 for the entire 3-day course. Physicians-in-training and allied professionals may register for \$400 upon presenting a written confirmation of their status. Fellowship programs that send two or more pediatric cardiology fellows will receive an additional \$50 discount per fellow. There will be a limited amount of space for basic scientists and graduate students (MD, PhD, or MS), who may request a deeply discounted rate of \$300. The registration fee includes program syllabus materials (including all of Professor Anderson's slides), continental breakfasts, coffee breaks, and lunch on Saturday. Participants in this course will receive a \$75 discount that may be credited towards future Master Classes in Cardiac Morphology, held annually in both Charleston and Pittsburgh.

Cancellations

Full refund will be given provided that cancellation is received by February 1, 2010. A processing fee of \$100 will be charged for all cancellations received between February 1 and March 1. Cancellations received between March 1 and March 5 will be charged a processing fee of \$150. After the program begins, no refunds will be possible.

Learning Objectives

This series has been developed to enhance the ability of participants to understand morphology in patients with congenital heart disease and is recommended for all professionals who manage and treat these patients. This enhanced knowledge base should spur learners towards improved proficiency within the fields of cardiac imaging, congenital heart surgery, cardiac pathology, and cardiac development. In this course, participants will concentrate on the morphology of interatrial communications, interventricular communications, atrioventricular septal defects, totally anomalous pulmonary venous connections and atrial isomerism. Specifically, at the conclusion of the program, the participant should be able to:

1. Explain the usefulness and practicality of the sequential segmental approach to the examination of congenitally malformed hearts and how you can apply this method to the treatment of your patients.
2. Describe normal cardiac morphology, and how each of the above malformations deviates from normality.
3. Describe the morphology of these defects in a fashion that is descriptive and anatomically correct.
4. Explain the incidence and clinical significance of different variations of each defect.
5. Discuss the utility of advanced imaging to display normal and abnormal cardiac morphology.

Location

The Medical University of South Carolina is located in Charleston's historic downtown and is minutes away from world-class dining, shopping, and historic venues. The Charleston area has a semi-tropical climate, with temperatures ranging 60-70°F in March. The airport is approximately 20 minutes from downtown.

Meeting Venue



The conference will be held in the MUSC Thurmond/Gazes Research Building Auditorium, Room 125, on the corner of Courtney and Doughty Streets. A campus map and driving directions may be found at: <http://www.muschealth.com/mapsarking/index.htm>.

General Information

Accommodations

Near MUSC campus:

Best Western Charleston Downtown

(\$99.99) 843-722-4000

(Code: Children's Heart Program)

Comfort Inn Riverview

(\$69) 843-577-2224

Springhill Suites by Marriott

(\$119) 843-571-1711

Parking

Complimentary parking has been reserved in K Lot behind the Ashley River Tower (see campus map). Attendees must bring their parking ticket to the meeting for validation.

Americans With Disabilities Act

It is the policy of the Medical University of South Carolina not to discriminate against any person on the basis of disabilities. If you feel you need services or the auxiliary aids mentioned in this act in order to fully participate in this meeting, submit requests for assistance in writing to the meeting coordinator at least 30 days prior to the start of the meeting.

Accreditation Statement

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

CME Credit Designation

The Medical University of South Carolina designates this educational activity for maximum of 14.75 *AMA PRA Category I Credit(s)*TM. Physicians should only claim credit commensurate with the extent of their participation in the activity. The Medical University of South Carolina designates this activity for up to 1.47 CEUs (14.75 contact hours). The CEU (Continuing Education Unit) is a nationally recognized unit of measure for continuing education and training activities that meet specific educational planning requirements.

Disclosure Statement

In accordance with the ACCME Essentials and Standards, anyone involved in planning or presenting this educational activity will be required to disclose any relevant financial relationships with commercial interests in the healthcare industry. This information will be made available to participants at the beginning of the activity. Speakers who incorporate information about off-label or investigational use of drugs or devices will be asked to disclose that information at the beginning of their presentation.

MEETING REGISTRATION

Masters In Cardiac Morphology: Living Anatomy

March 5-7, 2010

By Mail: Debbie Bryant, Meeting Coordinator
The Children's Heart Program of South Carolina
165 Ashley Avenue, MSC915
Charleston, SC 29425

By Fax: Fax form with credit card information to Debbie Bryant at
843-792-3284 or 800-277-0092.

By E-Mail: bryantd@musc.edu

(Please print or type- must be legible)

Name _____
Last First M.I. Degree

ID# (Required for credit storage): _____
(First four letters of last name and last four digits of SSN – ex: mort1234)

Cardiologist, CT Surgeon, Physician-in-training, Pathologist,
 Pathologists' Assistant, Cardiac Morphologist, Student
 Other _____

E-mail address: _____

Address _____

Telephone: Office (_____) _____

Fax: (_____) _____
(If international, include country/city codes)

Hospital/Professional Affiliation _____

Registration and Fees

Physician - \$450 received by February 1st,
 \$500 after February 1st

Physician-in-training/allied professional -
 \$400 received by February 1st,
 \$450 after February 1st

Basic scientist –
 \$300 received by February 1st,
 \$350 after February 1st

Graduate Student –
 \$300 received by February 1st,
 \$350 after February 1st

Method of Payment

Check (U.S. funds drawn on U.S. bank) made payable to Pediatric Cardiology Symposium

Credit card:

MasterCard Visa American Express

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