

10th Annual

Multimodality Cardiovascular Imaging for the Clinician

Case-Based Approach and Small Group Tutorials

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The Westin Fort Lauderdale Beach Resort
MARCH 14-16, 2020

Course Director: William A. Zoghbi, MD

Course Co-Directors: Mouaz H. Al-Mallah, MD; Stephen H. Little, MD; John J. Mahmarian, MD; Miguel A. Quiñones, MD; and Dipan J. Shah, MD

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AGENDA: SATURDAY, MARCH 14

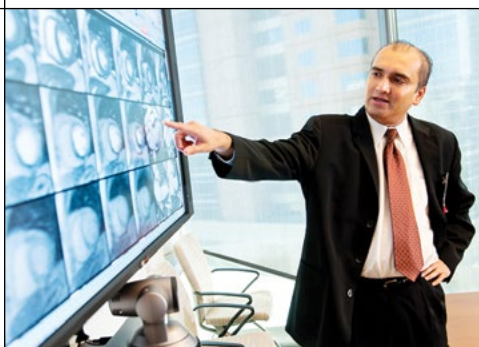
7 a.m.	REGISTRATION AND BREAKFAST	
7:45	Welcome and Introductions	William A. Zoghbi, MD
SESSION ONE ▪ Advances in CV Imaging Technology: Echo, CT, Nuclear, and CMR What is New? What Should I Incorporate in Practice? Moderators: William A. Zoghbi, MD; and Roberto M. Lang, MD		
8	3D Echocardiography: Latest Advances and Applications	Roberto M. Lang, MD
8:15	Contrast Echocardiography: Powerful Tool in Diagnosis and Management	William A. Zoghbi, MD
8:30	Cardiac CT Angiography: The Latest Technological Advances	Ricardo C. Cury, MD
8:45	Cardiac MRI: Basic Concepts and New Developments	Victor A. Ferrari, MD
9	What is New in Nuclear Cardiology?	David G. Wolinsky, MD
9:15	Artificial Intelligence and Virtual Realty in Cardiovascular Imaging: What Does the Future Hold?	Roberto M. Lang, MD
9:30	Q&A Session ▪ Panel Discussion	All Faculty
10	BREAK AND EXHIBITS	
SESSION TWO ▪ Ischemic Heart Disease: Role of Noninvasive Imaging Moderators: Ricardo C. Cury, MD; and David G. Wolinsky, MD		
10:30	Risk Stratification and CV Prevention: What Is the Value of Imaging? When Is CT Calcium Score Indicated?	John J. Mahmarian, MD
10:45	DEBATE: CT Coronary Angiography Should Be the First Line Test for Evaluation of Chest Pain (10 minute presentation and 5 minute rebuttal)	Ricardo C. Cury, MD
11	DEBATE: Stress Imaging Should Be the First Line Test for Evaluation of Chest Pain (10 minute presentation and 5 minute rebuttal)	John J. Mahmarian, MD
11:15	PET/CT in Coronary Artery Disease: Advantages and Limitations—Should It Replace SPECT?	Mouaz H. Al-Mallah, MD
11:30	Stress MRI in Coronary Artery Disease: The New Contender—When Should It Be First Choice?	Victor A. Ferrari, MD
11:45	Q&A Session ▪ Interesting Cases in Coronary Artery Disease with Audience Response and Panel Discussion	Mouaz H. Al-Mallah, MD; John J. Mahmarian, MD
12:15 p.m.	LUNCH	
SESSION THREE ▪ Role of Imaging in Heart Failure Moderators: Victor A. Ferrari, MD; and Miguel A. Quiñones, MD		
1:15	Quantitating Ventricular Function with Echocardiography: When and How Do You Use Strain?	Miguel A. Quiñones, MD
1:30	Doppler Echocardiography and Diastology: Navigating the New ASE Guidelines	Sherif F. Nagueh, MD
1:45	Do Not Forget About the Right Heart: Importance of RV Function and Tricuspid Regurgitation in Heart Failure—What to Look For	Nadeen N. Faza, MD
2	Current Multimodality Approaches to Pericardial Diseases	Milind Y. Desai, MD
2:15	CMR in Heart Failure: Impact on Etiologic Assessment and Prognosis	Dipan J. Shah, MD
2:30	Amyloidosis and Sarcoidosis: Role of PYP and PET Imaging	Mouaz H. Al-Mallah, MD
2:45	Role of Multimodality Imaging in Ventricular Assist Devices	Milind Y. Desai, MD
3	Q&A Session	All Faculty
3:30	BREAK AND EXHIBITS	
SESSION FOUR ▪ Case Studies on Coronary Artery Disease, Heart Failure, Pericardial Disease, LVAD and Cardio-oncology Moderators: John J. Mahmarian, MD; and William A. Zoghbi, MD		
4	Interesting Case Studies Using Echo, CT, Nuclear, PET and CMR, Singularly or in Combination. Audience Response and Panel Discussion.	Mouaz H. Al-Mallah, MD; Mohammed A. Chamsi-Pasha, MD; Milind Y. Desai, MD; Roberto M. Lang, MD; Victor A. Ferrari, MD; Miguel A. Quiñones, MD; Dipan J. Shah, MD
5:30	ADJOURNMENT RECEPTION ON SKY TERRACE	

AGENDA: SUNDAY-MONDAY, MARCH 15-16

7 a.m.	SIGN-IN AND BREAKFAST	
	SESSION FIVE ■ Valvular Heart Disease I: The Mitral Valve Moderators: Rebecca T. Hahn, MD; and Gerald M. Lawrie, MD	
8	Valvular and Cardiac Structure Anatomic Demonstration	William A. Zoghbi, MD; and Gerald M. Lawrie, MD
8:15	Mitral Regurgitation: The New ASE/SCMR Guidelines	William A. Zoghbi, MD
8:30	Role of CMR in Valvular Regurgitation: When Is It Indicated?	Dipan J. Shah, MD
8:45	The ACC/AHA and ESC Valve Guidelines: When to Intervene in Primary and Secondary MR. Implications of the COAPT Trial	Patrick T. O'Gara, MD
9	Repairing the Mitral Valve: Current Surgical Approach to Mitral Preservation	Gerald M. Lawrie, MD
9:15	Percutaneous Techniques for Mitral Valve Repair and Replacement: State of the Art	Sachin S. Goel, MD
9:30	Tricuspid Valve Regurgitation: The New Frontier	Rebecca T. Hahn, MD
9:45	Q&A Session ■ Complex Cases in Mitral and Tricuspid Valve Disease Audience Response and Panel Discussion	Sachin S. Goel, MD; Rebecca T. Hahn, MD; Dipan J. Shah, MD
10:15	BREAK AND EXHIBITS	
	SESSION SIX ■ Valvular Heart Disease II: The Aortic and Prosthetic Valves Moderators: Patrick T. O'Gara, MD; and Michael J. Reardon, MD	
10:45	TAVR: The Latest Frontiers, What Now After Approval for Low-Risk Patients; Optimizing the Choice of Prosthesis and Patient	Michael J. Reardon, MD
11	Modern Concepts in Aortic Stenosis: Paradoxical Low-Flow AS, Role of CT?	Robert J. Cubeddu, MD
11:15	What is Needed From the Imager for TAVR Decision-Making and Procedure? Image Fusion	Neal S. Kleiman, MD
11:30	How Do You Evaluate Valve Function After SAVR, TAVR? The New 2019 ASE Guidelines	William A. Zoghbi, MD
11:45	The "Interventional Imager": Training and Evolving Role in the Heart Team	Stephen H. Little, MD
Noon	Complex Cases in Aortic Valve Disease with Audience Response and Panel Discussion	Robert J. Cubeddu, MD; Stephen H. Little, MD; and Faculty
12:30 p.m.	LUNCH	
	SESSION SEVEN ■ Read With the Experts	
1:15	See Page 4 for further details.	

MONDAY, MARCH 16, 2020

7 a.m.	SIGN-IN AND BREAKFAST	
	SESSION EIGHT ■ Adult Congenital Heart Disease, Diseases of the Aorta and Peripheral Vasculature Moderators: Charudatta S. Bavare, MD, MPH; and C. Huie Lin, MD, PhD	
8	Unrepaired Congenital Heart Disease in the Adult: Critical Imaging Findings in Making the Right Diagnosis	Valeria E. Duarte, MD
8:20	Repaired Is Not Cured: Top 10 Imaging Findings that Change the Management in Repaired ACHD	C. Huie Lin, MD, PhD
8:40	Eyes and Ears: What the Surgeon and Interventionalist Need from the Imager Before Re-Intervening on Adults with Complex Congenital Heart Disease	Thomas E. MacGillivray, MD
9	What Are the Best Techniques to Evaluate the Aorta? Echo vs. CT vs. Dynamic MRI	Mohammed A. Chamsi-Pasha, MD
9:20	Aortic Root and Aortic Valve Repair: What Is the Current State? What Does the Surgeon Need to Know from the Imager?	Thomas E. MacGillivray, MD
9:40	Percutaneous Interventions for Aortic Aneurysm: What Does the Clinician Need to Know? What Does the Surgeon Want to Know from the Imager Prior to and After the Procedure?	Charudatta S. Bavare, MD, MPH
10	BREAK AND EXHIBITS	
10:30	Peripheral Vascular Disease: Should It Be CT or MRI Imaging?	Faisal Nabi, MD
10:45	Carotid Disease: How to Use Imaging	Mohammed A. Chamsi-Pasha, MD
11	Interesting Cases with Audience Response and Panel Discussion	John J. Mahmarian, MD; Charudatta S. Bavare, MD, MPH
11:45	Program Evaluation and Conclusion	William A. Zoghbi, MD
Noon	ADJOURNMENT AND BOX LUNCH	



SESSION SEVEN: READ WITH THE EXPERTS

Hosted by DeBakey CV Education

Sunday, March 15 ▪ 1:15-5 p.m.



1:30-3 p.m. ▪ SMALL GROUP INTERACTIVE SESSIONS: Basics of Image Manipulation and Quantitation; A Variety of Case Studies

Attendees can attend any of the five simultaneous small group sessions dedicated for each modality.

3D Echocardiography and TEE	Transthoracic Echocardiography and Quantitation	CT Coronary Angiography and Aortography	Cardiac and Vascular MRI	PET/Nuclear Cardiology
Case Studies	Case Studies	Case Studies	Case Studies	Case Studies
Stephen H. Little, MD Roberto M. Lang, MD Rebecca T. Hahn, MD	William A. Zoghbi, MD Miguel A. Quiñones, MD Sherif F. Nagueh, MD	John J. Mahmarian, MD Ricardo C. Cury, MD Faisal Nabi, MD	Victor A. Ferrari, MD Dipan J. Shah, MD Milind Y. Desai, MD	Mouaz H. Al-Mallah, MD David G. Wolinsky, MD Mohammed A. Chamsi-Pasha, MD

3-3:30 p.m. ▪ Break

3:30-5 p.m. ▪ All Attendees ▪ Interesting and complex case studies using multimodality imaging with audience response and panel discussion: Valvular heart disease, prosthetic valves, structural heart disease and interventions, and cardiac masses.

Dipan J. Shah, MD; Stephen H. Little, MD; Milind Y. Desai, MD; Nadeen N. Faza, MD;
Mohammed A. Chamsi-Pasha, MD; and Robert J. Cubeddu, MD

Moderators: John J. Mahmarian, MD; and Stephen H. Little, MD

5 p.m. ▪ Adjourn (evening on your own)

COURSE DIRECTOR



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Valeria E. Duarte, MD

Assistant Professor of Cardiology
Adult Congenital Cardiac Disease

Nadeen N. Faza, MD

Assistant Professor of Cardiology
Structural Heart Disease

Sachin S. Goel, MD

Director, Structural Heart Interventions (1/2020)

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Gerald M. Lawrie, MD

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Weston, Florida

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Professor of Medicine, Cleveland Clinic Lerner College of Medicine
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Victor A. Ferrari, MD

Chair, Penn Cardiovascular Imaging Council, Depts. of Medicine,
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Penn Medicine
Philadelphia, Pennsylvania

PROGRAM OVERVIEW

Cardiovascular imaging plays a vital role in the management of the cardiovascular patient. Knowledge of various imaging modalities is critical to understanding their advantages, limitations and appropriate utilization in patients with ischemic heart disease, heart failure, atrial fibrillation, cardiomyopathy, masses, valvular disease, and aortic disease. This symposium offers the opportunity, in addition to didactic lectures by world experts, to have small-group tutorials in each imaging modality, and demonstration of heart anatomy to better visualize and understand cardiac and valvular structure and enhance correlations with cardiac imaging.

TARGET AUDIENCE AND EDUCATIONAL OBJECTIVES

Cardiologists, cardiovascular surgeons, internists, radiologists, critical care physicians, advanced cardiovascular practitioners, anesthesiologists, cardiovascular imaging technologists, fellows in training, and sonographers in areas such as echocardiography, vascular ultrasound, nuclear cardiology, cardiac CT and cardiac MRI will benefit from this course.

- Discuss new developments in multimodality imaging
- Compare the different types of imaging for the assessment of ischemia to determine which is the most beneficial for the specified clinical question
- Evaluate valve and heart morphology and relate them to valvular imaging and interventions
- Describe the timing and interventions in common valvular disorders
- Discuss how imaging can be utilized to differentiate cardiomyopathies and masses
- Explain the role of imaging in vascular disease and diseases of the aorta
- Summarize the most common congenital heart disease disorders seen in the adult and their salient imaging features

ACCREDITATION AND CREDIT DESIGNATION STATEMENTS

Physicians

Houston Methodist is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Houston Methodist designates this live activity for a maximum of 18.0 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Echocardiologists

All or a portion of this educational activity may meet the CME requirement for IAC Echocardiography Accreditation.

ASRT Credit

ASRT for Category A Continuing Education Credit pending.

ABIM MOC Assessment Recognition Program

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 18 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

EDUCATIONAL METHODS AND EVALUATION

Didactic lectures, heart specimen demonstrations, case studies, small group tutorials with imaging stations, panel discussions, audience response system. Evaluation by questionnaire will address program content, presentation, possible bias and intent to change current practice.

CANCELLATION/REFUND POLICY

Requests for registration refunds must be in writing and received by OCME at least 10 business days before the course begins. The date OCME receives the request will be considered the cancellation date. Requests received after the refund deadline will not be processed. Cancellations are subject to an administrative fee deducted from the registration fee paid to cover guarantees and other expenses. Requests should be mailed to OCME or faxed to 713.441.0589. OCME reserves the right to cancel activities, not less than 10 business days before the scheduled date, if extenuating circumstances make it necessary. Registrants will be notified at the contact number indicated on the registration form followed by written notification. If an activity is cancelled, OCME's liability is limited to the registration fee paid. If payment is made by check, a Social Security number is required to process the refund.

DISCLOSURE

This CME activity is designed for use by health care professionals for educational purposes only. Information and opinions offered by the contributors represent their viewpoints. Conclusions drawn by the participant should be derived from careful consideration of all available scientific information. Prescription information and use of medical devices should be undertaken only after confirmation of information by consulting the FDA-approved uses and information. Houston Methodist makes every effort to have accurate information presented; no warranty, expressed or implied, is offered. The participant should use his or her clinical judgment, knowledge, experience and diagnostic decision-making before applying any information, whether provided here or by others, for any professional use.

ADA STATEMENT

In compliance with the Americans with Disabilities Act, Houston Methodist will make reasonable efforts to accommodate persons with disabilities at this symposium. Please call 713.441.4971 for further information or if you need special assistance.

REGISTRATION

Online: events.houstonmethodist.org/cvimaging

Phone: 713.441.4971

Mail: Houston Methodist (OCME)
Attn: Multimodality Imaging (455)
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REGISTRATION FEES	Early-Bird (before 1/25/2020)	Regular Fee
Member (ACC/ASE/ASNC/SCMR)		
☐ Physician/Scientist	\$420	\$520
Nonmember (ACC/ASE/ASNC/SCMR)		
☐ Physician/Scientist	\$550	\$650
☐ International Physician	\$420	\$520
☐ Houston Methodist Physician/ Scientist/Health Care Professional	\$120	\$220
☐ Other Health Care Professional	\$350	\$450
☐ Resident/Fellows	\$120	\$220



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The Westin Fort Lauderdale Beach Resort

321 N. Fort Lauderdale Beach Blvd.
Fort Lauderdale, FL 33304
888.627.7108

If calling in your reservation, please identify yourself with the **Multimodality CV Imaging Conference** in order to receive the special group rate of \$299 (single/double). This rate does not include applicable state and local taxes (currently 13%), or the following automatic or mandatory charges, such as the \$10 resort fee (discounted from \$39) to include all amenities.

A limited number of rooms have been reserved at this rate on a space available basis. *The deadline to receive this rate is Jan. 31, 2020, unless the room block has already been filled. Reserve your room early.*

For Further Information, Contact

Office of Continuing Medical Education
6670 Bertner Ave., R2-216
Houston, TX 77030

cme@houstonmethodist.org
713.441.4971

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Lona Cocina Tequileria

Lona offers celebrated Mexican chef Pablo Salas' eclectic, soulful Mexican cooking in a chic yet funky environment, complete with a breathtaking outdoor bar, casually elegant interior dining room, a special tequila tasting room and multiple private dining spaces.



Heavenly Spa by Westin™

Indulge in therapeutic massages, cleansing facials and invigorating body treatments.



Sky Terrace

Enjoy your breakfast, lunch and the Saturday evening reception on the outdoor sky terrace.

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