

12th ANNUAL

MULTIMODALITY CARDIOVASCULAR IMAGING FOR THE CLINICIAN

OCT. 20-22, 2023

Houston Methodist Hospital 6670 Bertner Ave. John F. Bookout Auditorium, 2nd Floor Houston, Texas 77030

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



learn.houstonmethodist.org/MMI-2023





12th Annual Multimodality Cardiovascular Imaging for the Clinician is offered in cooperation with the American Society of Echocardiography In co-sponsorship with





AGENDA: FRIDAY, OCT. 20

Welcome and Introductions	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	William A. Zoghbi, MD
SESSION ONE • Latest Advances in CV Imaging Technology: Echo, CT, PET, and What Should I Incorporate in Practice? Moderators: João Cavalcante, MD; Karla Kurrelmeyer, MD; and Karima Addetia, MD	d CMR.
3D Echocardiography: Latest Advances and Applications	Karima Addetia, MD
Contrast Echocardiography: Powerful Tool in Diagnosis and Management	Sharon Mulvagh, MD
Cardiac CT Angiography: The Latest Technological Advances Including FFR	João Cavalcante, MD
Cardiac MRI: Basic Concepts and New Developments for Clinical Applications Beyond LGE	Raymond Y. Kwong, MD, PhD
PET/CT Techniques and Protocols: What Should I Incorporate in My Lab?	Mouaz H. Al-Mallah, MD
Artificial Intelligence in Cardiovascular Imaging: What is the Impact on Workforce and Workflow? Adopt or Adapt?	Karima Addetia, MD
Q&A Session • Panel Discussion	All Faculty
BREAK AND EXHIBITS	
SESSION TWO • Ischemic Heart Disease: Role of Imaging Moderators: Waleed Ahmed, MD; Panithaya Chareonthaitawee, MD; and Jagat Narula, MD, F	PhD
Risk Stratification and CV Prevention: What is the Value of Imaging? When and How to Use CT Calcium Score?	Khurram Nasir, MD
The Vulnerable Plaque: What is the Most Predictive of Coronary Events?	Jagat Narula, MD, PhD
The New 2021 Chest Pain Guidelines: When is CTA with FFR Preferred Over Physiologic Stress?	John J. Mahmarian, MD
PET/CT in Coronary Artery Disease: Should it Replace SPECT?	Panithaya Chareonthaitawee,
Value of CMR in Acute Coronary Syndromes and Differentiation of Underlying Etiologies (MINOCA, Myocarditis)	Raymond Y. Kwong, MD, PhD
Q&A Session • Interesting Cases in Coronary Artery Disease with Audience Response and Panel Discussion	Mouaz H. Al-Mallah, MD; John J. Mahmarian, MD; Khurram Nasir, MD
LUNCH	
SESSION THREE • Role of Imaging in Heart Failure Moderators: Mahwash Kassi, MD; Raymond Y. Kwong, MD, PhD; and Miguel A. Quiñones, M	D
Quantitating Ventricular Function with Echocardiography: How Do You Use LV Strain in Daily Practice?	Miguel A. Quiñones, MD
Doppler Echocardiography and Diastology: Navigating the New ASE Guidelines Through Case Studies. Should Left Atrial Strain be Incorporated?	Sherif F. Nagueh, MD
How Do You Evaluate RV Size and Function? Is RV Strain the Best Index for RV Systolic Function?	Nadeen N. Faza, MD
Current Multimodality Approaches to Pericardial Diseases	João Cavalcante, MD
Role of CMR in Heart Failure: Impact on Etiologic Assessment and Prognosis	Dipan J. Shah, MD
	Mahwash Kassi, MD
BREAK AND EXHIBITS	
SESSION FOUR • Live and Pre-recorded Case Studies from the Imaging Labora Moderators : Waleed Ahmed, MD; Raymond Y. Kwong, MD, PhD; Sharon Mulvagh, MD; and M	
Live Cases and Interesting Case Studies with Panel Discussion: CAD, Diastology, Contrast Echo, Heart Failure and Viability, Cardiac Masses	Waleed Ahmed, MD; Mouaz H. Al-Mallah, MD; Karla Kurrelmeyer, MD; Raymond Y. Kwong, MD, PhD; Sharon Mulvagh, MD
	3D Echocardiography: Latest Advances and Applications Contrast Echocardiography: Powerful Tool in Diagnosis and Management Cardiac CT Angiography: The Latest Technological Advances Including FFR Cardiac MRI: Basic Concepts and New Developments for Clinical Applications Beyond LGE PET/CT Techniques and Protocols: What Should I Incorporate in My Lab? Artificial Intelligence in Cardiovascular Imaging: What is the Impact on Workforce and Workflow? Adopt or Adapt? Q&A Session • Panel Discussion BREAK AND EXHIBITS SESSION TWO • Ischemic Heart Disease: Role of Imaging Moderators: Waleed Ahmed, MD; Panithaya Chareonthaitawee, MD; and Jagat Narula, MD, F Risk Stratification and CV Prevention: What is the Value of Imaging? When and How to Use CT Calcium Score? The Vulnerable Plaque: What is the Most Predictive of Coronary Events? The New 2021 Chest Pain Guidelines: When is CTA with FFR Preferred Over Physiologic Stress? PET/CT in Coronary Artery Disease: Should it Replace SPECT? Value of CMR in Acute Coronary Syndromes and Differentiation of Underlying Etiologies (MINOCA, Myocarditis) Q&A Session • Interesting Cases in Coronary Artery Disease with Audience Response and Panel Discussion LUNCH SESSION THREE • Role of Imaging in Heart Failure Moderators: Mahwash Kassi, MD; Raymond Y, Kwong, MD, PhD; and Miguel A. Quiñones, M Quantitating Ventricular Function with Echocardiography: How Do You Use LV Strain in Daily Practice? Doppler Echocardiography and Diastology; Navigating the New ASE Guidelines Through Case Studies. Should Left Atrial Strain be Incorporated? How Do You Evaluate RV Size and Function? Is RV Strain the Best Index for RV Systolic Function? Current Multimodality Approaches to Pericardial Diseases Role of CMR in Heart Failure: Impact on Etiologic Assessment and Prognosis LVAD: How Do You Assess LVAD Function with Echo? Role of CTA? BREAK AND EXHIBITS SESSION FOUR • Live and Pre-recorded Case Studies from the Imaging Labora Moderators: Waleed Ahmed, MD; Raymond Y. Kwong, MD, PhD; Sharon Mulvagh, MD; and Mo

AGENDA: SATURDAY, OCT. 21

8 Valve 8:15 Mitra 8:30 Role 8:45 The Upd: 9 Repa 9:15 Perc 9:30 Tricu 9:45 Audi 10:15 BRE SES Mod 11:45 Mod 11:45 Aort Are: 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	SSION FIVE • Valvular Heart Disease I: The Mitral and Tricuspid Valves obterators: Blase A. Carabello, MD; Gerald M. Lawrie, MD; and Dee Dee Wang, MD vular and Cardiac Structure Anatomic Demonstration vular And ESC Valve Guidelines: date on When to Intervene in Primary and Secondary MR pairing the Mitral Valve: Current Surgical Approach to Mitral Preservation recutaneous Techniques for Mitral Valve Repair and Replacement: State-of-the-Art cuspid Valve Regurgitation: The New Frontier — Results of Recent Interventions A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion REAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves obterators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — ethe ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? ethe Heart Team	William A. Zoghbi, MD; Gerald M. Lawrie, MD William A. Zoghbi, MD Dipan J. Shah, MD Blase A. Carabello, MD Gerald M. Lawrie, MD Sachin S. Goel, MD Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Dee Dee Wang, MD Carlos El-Tallawi, MD Sachin S. Goel, MD; Dee Dee Wang, MD Carlos El-Tallawi, MD Stephen H. Little, MD
8:15 Mitra 8:30 Role 8:45 The Upda 9 Repa 9:15 Perc 9:30 Tricu 9:45 Audi 10:15 BRE SES Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	ral Regurgitation: Evaluation with Echocardiography — An Integrative Approach le of CMR in Valvular Regurgitation: When is it Indicated? e ACC/AHA and ESC Valve Guidelines: date on When to Intervene in Primary and Secondary MR pairing the Mitral Valve: Current Surgical Approach to Mitral Preservation routaneous Techniques for Mitral Valve Repair and Replacement: State-of-the-Art cuspid Valve Regurgitation: The New Frontier — Results of Recent Interventions A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion EEAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves orderators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? ric Regurgitation: New Observations on Severity Assessment — e the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Gerald M. Lawrie, MD William A. Zoghbi, MD Dipan J. Shah, MD Blase A. Carabello, MD Gerald M. Lawrie, MD Sachin S. Goel, MD Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Dee Dee Wang, MD Carlos El-Tallawi, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
8:30 Role 8:45 The Upda 9 Repa 9:15 Perc 9:30 Tricu 9:45 Q&A Audi 10:15 BRE SES Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	le of CMR in Valvular Regurgitation: When is it Indicated? ACC/AHA and ESC Valve Guidelines: date on When to Intervene in Primary and Secondary MR pairing the Mitral Valve: Current Surgical Approach to Mitral Preservation reutaneous Techniques for Mitral Valve Repair and Replacement: State-of-the-Art cuspid Valve Regurgitation: The New Frontier — Results of Recent Interventions A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion EEAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves aderators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — a the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? a "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Dipan J. Shah, MD Blase A. Carabello, MD Gerald M. Lawrie, MD Sachin S. Goel, MD Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
8:45 The Upd. 9 Rep. 9:15 Perc. 9:30 Tricu 9:45 Audi 10:15 BRE SES Mod 11 TAVI 11:15 Aort Are: 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	e ACC/AHA and ESC Valve Guidelines: date on When to Intervene in Primary and Secondary MR pairing the Mitral Valve: Current Surgical Approach to Mitral Preservation reutaneous Techniques for Mitral Valve Repair and Replacement: State-of-the-Art cuspid Valve Regurgitation: The New Frontier — Results of Recent Interventions A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion EEAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves aderators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — a the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? a "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Blase A. Carabello, MD Gerald M. Lawrie, MD Sachin S. Goel, MD Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
9:45 Upda 9 Repa 9:15 Perca 9:30 Tricu 9:45 Q&A Audi 10:15 BRE SES Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	date on When to Intervene in Primary and Secondary MR pairing the Mitral Valve: Current Surgical Approach to Mitral Preservation routaneous Techniques for Mitral Valve Repair and Replacement: State-of-the-Art cuspid Valve Regurgitation: The New Frontier — Results of Recent Interventions A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion EEAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves derators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — e the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Gerald M. Lawrie, MD Sachin S. Goel, MD Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
9:15 Perconstruction 9:30 Tricum 9:45 Q&A Audit 10:15 BRE SES Mode 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of the Noon Q&A Audit 12:30 p.m. LUN	routaneous Techniques for Mitral Valve Repair and Replacement: State-of-the-Art cuspid Valve Regurgitation: The New Frontier — Results of Recent Interventions A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion EEAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves oderators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — e the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Sachin S. Goel, MD Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
9:30 Tricu 9:45 Q&A Audi 10:15 BRE SES Mod 10:45 Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion EAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves oderators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? VR: Regurgitation: New Observations on Severity Assessment — a the ACC/AHA/ESC Guidelines for Severe AR Too Specific? We Do You Evaluate Prosthetic Valve Function? The Latest ASE Recommendations for Training and the Role	Dee Dee Wang, MD Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
9:45 Q&A Audi 10:15 BRE SES Mod 10:45 Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of the Noon Q&A Audi 12:30 p.m. LUN	A Session • Complex Cases in Mitral and Tricuspid Valve Disease dience Response and Panel Discussion REAK AND EXHIBITS ESSION SIX • Valvular Heart Disease II: The Aortic Valve and Prosthetic Valves orderators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? VR: Regurgitation: New Observations on Severity Assessment — The ACC/AHA/ESC Guidelines for Severe AR Too Specific? We Do You Evaluate Prosthetic Valve Function? The Latest ASE Recommendations for Training and the Role	Carlos El-Tallawi, MD; Sachin S. Goel, MD; Dee Dee Wang, MD Blase A. Carabello, MD Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
10:45 Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	derators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
10:45 Mod 11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	derators: Nadeen N. Faza, MD; Sachin S. Goel, MD; and Michael J. Reardon, MD dern Concepts in Aortic Stenosis: Are We Intervening Too Late? VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — e the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
11 TAVI 11:15 Aort Are 11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	VR: Optimizing the Choice of Prosthesis and Patient — What is the Next Frontier? rtic Regurgitation: New Observations on Severity Assessment — e the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Michael J. Reardon, MD João Cavalcante, MD Carlos El-Tallawi, MD
11:15 Aort Are 11:30 How 11:45 The of th Audi 12:30 p.m. LUN	rtic Regurgitation: New Observations on Severity Assessment — the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	João Cavalcante, MD Carlos El-Tallawi, MD
11:30 How 11:45 The of th Noon Q&A Audi 12:30 p.m. LUN	e the ACC/AHA/ESC Guidelines for Severe AR Too Specific? w Do You Evaluate Prosthetic Valve Function? e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	Carlos El-Tallawi, MD
11:45 The of th Noon Q&A Audi	e "Interventional Imager": The Latest ASE Recommendations for Training and the Role	
Noon Q&A Audi 2:30 p.m. LUN		Stephen H. Little, MD
12:30 p.m. LUN		
'	A Session • Complex Cases in Aortic Valve Disease dience Response and Panel Discussion	João Cavalcante, MD; Nadeen N. Faza, MD; Stephen H. Little, MD
SES	NCH	
	SSION SEVEN • Imaging in Evaluation of Cardiomyopathy oderators: Panithaya Chareonthaitawee, MD; and Juan Carlos Plana, MD	
1:30 Stre	ess Cardiomyopathy: When to Suspect and How to Diagnose?	Maan Malahfji, MD
1:45 Amy	yloid Heart Disease: Diagnostic Approach and Role of Imaging	Panithaya Chareonthaitawee, MD
-	rdio-oncology: Latest Recommendation for Early Detection and Management	Juan Carlos Plana, MD
9:15 Hype	pertrophic Cardiomyopathy: A Multimodality Approach and The Dawn of a New Era Drug Interventions	Sherif F. Nagueh, MD
	A Session • Cardiomyopathies dience Response and Panel Discussion	Panithaya Chareonthaitawee, MD Maan Malahfji, MD; Juan Carlos Plana, MD
	ESSION EIGHT • Jeopardy Game: Test Your Skills — Rapid-Fire Interpretation oderator: Bindu Chebrolu, MD	
3 Jeop	ppardy Game	
3:30 BRE	EAK AND EXHIBITS	
SE		
4-5:30 See	ESSION NINE • Read With the Experts	







SESSION NINE: READ WITH THE EXPERTS Saturday, Oct. 21 • 4-5:30 p.m.

4-5:30 p.m. - SMALL GROUP INTERACTIVE SESSIONS: **Basics of Image Manipulation and Case Studies**

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

2D/3D	CT Coronary	Nuclear Cardiology: SPECT and PET	Cardiac and
Echocardiography	Angiography		Vascular MRI
Case Studies	Case Studies	Case Studies	Case Studies
Stephen H. Little, MD	Waleed Ahmed, MD,	Mouaz H. Al-Mallah, MD	Carlos El-Tallawi, MD
Sherif F. Nagueh, MD	Mohammed A. Chamsi-Pasha, MD	Faisal Nabi, MD	Maan Malahfji, MD
Miguel A. Quiñones, MD	John J. Mahmarian, MD	Panithaya Chareonthaitawee, MD	Dipan J. Shah, MD

5:30 Adjourn | evening on your own

AGENDA: SUNDAY, OCT. 22

7 a.m.	SIGN-IN AND BREAKFAST	
	SESSION 10 • Adult Congenital Heart Disease: Diseases of the Aorta and Peripho Moderators: Marvin D. Atkins Jr., MD; and Andrea Giulio Quarti, MD	eral Vasculature
8	Post-Operative Congenital Heart Disease in the Adult: How Do You Recognize Common Conditions? Outcomes?	C. Huie Lin, MD, PhD
8:30	Adult Congenital Heart Disease: What Are the Most Common Untreated Conditions That Should Not be Missed?	Dilachew Adebo, MD
9	What are the Best Techniques to Evaluate the Aorta: Echo vs. CT vs. Dynamic MRI?	Mohammed A. Chamsi-Pasha, MD
9:15	Aortic Root and Aortic Valve Repair: What is the Current State? What Does the Surgeon Need to Know from the Imager?	Andrea Quarti, 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?	Marvin D. Atkins Jr., MD
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	Marvin D. Atkins Jr., MD; John J. Mahmarian, MD
11:45	Program Evaluation and Conclusion	William A. Zoghbi, MD
Noon	ADJOURNMENT	

12th ANNUAL

MULTIMODALITY CARDIOVASCULAR IMAGING FOR THE CLINICIAN

COURSE DIRECTOR



William A. Zoghbi, MD Elkins Family Distinguished Chair in Cardiac Health, Chair, Department of Cardiology Professor of Cardiology **Houston Methodist**

COURSE CO-DIRECTORS



Mouaz H. Al-Mallah, MD Director, Cardiovascular PET/CT Program Professor of Cardiology **Houston Methodist**



Stephen H. Little, MD, FRCPC John S. Dunn Chair in Clinical Cardiovascular Research and Education Program Director, Cardiovascular Disease Fellowship Associate Professor of Clinical Cardiology



John J. Mahmarian, MD Director, Nuclear Cardiology and Cardiac CT Professor of Cardiology **Houston Methodist**

Houston Methodist

Dipan J. Shah, MD



Miguel A. Quiñones, MD Winters Family Distinguished Centennial Chair in Cardiovascular Education Professor of Cardiology Editor, Houston Methodist DeBakey Cardiovascular Journal Houston Methodist



Director, Cardiovascular Imaging Institute Director, Cardiovascular Magnetic Resonance Imaging Associate Professor of Clinical Cardiology Houston Methodist

GUEST FACULTY

Karima Addetia, MD

Associate Professor of Medicine Cardiology University of Chicago - Department of Medicine Chicago, Illinois

Dilachew Adebo, MD, FAAP, FACC, FSCMR, FSCCT

Associate Professor, Pediatric Cardiology Director, Pediatric Cardiology Fellowship Program Director, Pediatric Cardiac MRI and Pediatric Cardiac CT The University of Texas Health Science Center at Houston (UTHealth Houston)

Blase A. Carabello, MD

Professor and Chief, Division of Cardiology East Carolina University The Department of Cardiovascular Sciences Greenville, North Carolina

João Cavalcante, MD

Director, Cardiac MR and Structural CT Labs Allina Health Minneapolis, Minnesota

Panithaya Chareonthaitawee, MD

Cardiologist Director, Nuclear Cardiology Laboratory Mavo Clinic Rochester, Minnesota

Raymond Y. Kwong, MD, PhD, MPH

Director, Cardiac Magnetic Resonance Imaging Professor of Medicine, Harvard Medical School Cardiovascular Medicine, Radiology Cambridge, Massachusetts

Sharon Mulvagh, MD

Division of Cardiology, Department of Medicine Dalhousie University Nova Scotia, Canada

Jagat Narula, MD, PhD

Executive Vice President and Chief Academic Officer Professor of Medicine **UTHealth Houston**

Juan Carlos Plana, MD

Don W. Chapman, M.D. Endowed Chair of Cardiology Associate Professor Baylor College of Medicine

Dee Dee Wang, MD

Director, Structural Heart Imaging Henry Ford Health Detroit, Michigan

All faculty are located in Houston, Texas unless otherwise noted.

HOUSTON METHODIST FACULTY

Waleed Ahmed, MD

Cardiac Imaging, Cardiology, Nuclear Cardiology Houston Methodist DeBakey Cardiology Associates

Marvin D. Atkins Jr., MD

Cardiac Surgery, Cardiothoracic Surgery, Thoracic Surgery, Vascular Surgery

Houston Methodist Cardiovascular Surgery Associates

Mohammed A. Chamsi-Pasha, MD

Assistant Professor of Cardiology, Academic Institute Weill Cornell Medical College

Bindu Chebrolu, MD

Assistant Professor of Cardiology, Academic Institute Assistant Clinical Member, Research Institute Weill Cornell Medical College

Carlos El-Tallawi, MD

Assistant Professor of Cardiology, Academic Institute Assistant Member, Research Institute

Nadeen N. Faza, MD

Assistant Professor of Cardiology

Sachin S. Goel, MD, FACC, FSCAI

Medical Director - Structural Heart Interventions Houston Methodist DeBakey Heart and Vascular Center Assistant Professor of Cardiology

Mahwash Kassi, MD

Assistant Professor of Cardiology, Academic Institute Assistant Clinical Member, Research Institute Weill Cornell Medical College

Karla Kurrelmeyer, MD

Associate Professor of Clinical Cardiology, Academic Institute Assistant Clinical Member, Research Institute Weill Cornell Medical College

Gerald M. Lawrie, MD

Michael E. DeBakey Distinguished Chair in Cardiac Surgery Professor of Cardiovascular Surgery

C. Huie Lin, MD, PhD, FACC, FSCAI

Director, Adult Congenital Heart Program Assistant Professor of Medicine

Maan Malahfji, MD

Assistant Professor of Cardiology, Academic Institute Assistant Clinical Member, Research Institute Clinical Scholar, Department of Cardiology Weill Cornell Medical College

Faisal Nabi, MD

Director, Cardiovascular Imaging Houston Methodist Willowbrook Assistant Professor of Clinical Cardiology

Sherif F. Nagueh, MD

Director, Echocardiography Laboratory Professor of Cardiology

Khurram Nasir, MD, MPH

Director, Cardiovascular Prevention and Wellness Associate Director, Center for Outcomes Research Katz Investigator

Andrea Giulio Quarti, MD

Cardiac Surgery Surgical Director ACHD Houston Methodist Cardiovascular Surgery Associates

Michael J. Reardon, MD

Allison Family Distinguished Chair of Cardiovascular Research Professor of Cardiovascular Surgery

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 conference offers the opportunity, in addition to didactic lectures by world experts, to participate in small-group tutorials in each imaging modality. Demonstrations of heart anatomy assist in visualizing and understanding cardiac and valvular structure to enhance correlations with cardiac imaging.

TARGET AUDIENCE AND EDUCATIONAL OBJECTIVES

Cardiologists, cardiovascular surgeons, internists, anesthesiologists, radiologists, critical care physicians, advanced cardiovascular practitioners, fellows in training, sonographers, cardiovascular imaging technologists in areas such as echocardiography, 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 used 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 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 17.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Radiologic Technologists Approved by the ASRT for Category A continuing education 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.

REGISTRATION

Online: learn.houstonmethodist.org/MMI-2023

Phone: 713.441.4971

Mail: Houston Methodist (OCME)

Attn: Multimodality Imaging (700)

6670 Bertner Ave., R2-216 • Houston, TX 77030

REGISTRATION FEES	In-Person	Virtual
Member (ACC/ASE/ASNC/SCMR)		
Physician (inside Greater Houston)	\$625*	\$625*
Physician (outside Greater Houston)	\$350*	\$250*
Nonmember (ACC/ASE/ASNC/SCMR)		
Physician (inside Greater Houston)	\$785	\$785
Physician (outside Greater Houston)	\$450	\$350
Houston Methodist Physicians (including MPAQ and ACO PCPs)	Complimentary	\$25
Houston Methodist Allied Health Care Professionals	Complimentary	\$25
Allied Health Care Professionals (external)	\$75	\$50
Residents/Fellows/Students	Complimentary	\$25

*MEMBER rates are discounted rates for members of the ACC, ASE, ASNC, or SCMR.

In compliance with HM's policy on Physician Non-Monetary Compensation regarding "Stark Law," private physicians who reside and/or practice medicine within the Greater Houston Area are required to pay the full Fair Market Value registration fee.