



# 45<sup>TH</sup> CARDIOLOGY UPDATE

EVIDENCE-BASED MANAGEMENT

May 25-27, 2023

The Hyatt Place Hotel  
Historic Charleston, South Carolina  
During Spoleto Festival USA

For more information, contact the MUSC Office  
of CME: 843-876-1925, [cmeoffice@musc.edu](mailto:cmeoffice@musc.edu),  
or visit [musc.edu/cme](https://musc.edu/cme)

Offering in-person  
and  
virtual attendance



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### COURSE FACULTY

#### COURSE DIRECTOR

**Michael R. Gold, MD, PhD**  
Michael Assey Professor of Medicine  
Division of Cardiology

#### ASSISTANT COURSE DIRECTOR

**Christopher D. Nielsen, MD**  
Director, Adult Cardiac Labs  
Director, Interventional Fellowship Program  
Professor of Cardiology

### MUSC FACULTY

**Ryan Barnes, D.O.**  
Departments of Emergency Medicine & Pediatrics  
Chief of Emergency Ultrasound Division

**Jan Basile, M.D.**  
Professor of Medicine  
Division of Cardiology

**Anthony Carnicelli**  
Assistant Professor of Medicine  
Division of Cardiology

**Janet Carter, MS, RDN, LDN, CSL, FNLA**  
Outpatient Dietitian  
Heart Health Program Manager  
MUSC Children's Health

**Joshua "Bear" Coney, M.D.**  
Associate Professor of Medicine  
Division of Cardiology  
Advanced Heart Failure and Heart Transplant

**Shannon Cornell, NP**  
Division of Cardiology

**Marc-André Cornier, M.D.**  
Professor of Medicine  
James A. Keating Endowed Chair in Diabetes  
Director, Division of Endocrinology,  
Diabetes & Metabolic Diseases

**Mohamed Elshazly, M.D.**  
Cardiac Electrophysiologist  
Assistant Professor of Medicine  
Division of Cardiology

**Michele Esposito, M.D.**  
Assistant Professor of Medicine  
Division of Cardiology

**Valerian Fernandes, M.D.**  
Professor of Medicine  
Division of Cardiology

**Stephanie Gaydos, M.D.**  
Associate Professor  
Department of Medicine and Pediatrics  
Division of Adult Congenital Cardiology

**Jagpreet Grewal, M.D.**  
Cardiology Fellow  
Division of Cardiology

**Jan Griffin, M.D.**  
Assistant Professor of Medicine  
Division of Cardiology

**Brian Houston, M.D., FACC**  
Associate Professor of Medicine  
Division of Cardiology  
Medical Director, Mechanical Circulatory  
Support

**Chakradhari Inampudi, M.D.**  
Assistant Professor of Medicine  
Division of Cardiology

**Daniel P. Judge, M.D., FACC, FHFSa**  
Edwin W. and Teresa H. Rogers  
Professor of Medicine  
Director of Cardiovascular Genetics

**Rachel Kaplan, M.D., M.S**  
Assistant Professor of Medicine  
Division of Cardiology

**Anne Kroman, D.O, PhD**  
Assistant Professor of Medicine  
Division of Cardiology

**Pamela Morris, M.D.**  
Professor of Medicine  
Division of Cardiology

**Joshua Payne, M.D., MPH**  
Assistant Professor of Medicine  
Division of Cardiology

**Denise Perrella, NP**  
Division of Cardiology

**Michael Rofael, M.D.**  
Cardiology Fellow  
Division of Cardiology

**Daniel Steinberg, M.D.**  
Endowed Chair, Edna M. Sutton Endowed  
Chair in Structural Heart Disease  
Professor of Medicine  
Division of Cardiology

**Ryan J. Tedford, M.D., FACC, FAHA, FHFSa**  
Dr. Peter C. Gazes Endowed  
Chair in Heart Failure  
Professor of Medicine  
Section Chief, Heart Failure  
Medical Director, Cardiac Transplantation  
Director, Advanced Heart Failure &  
Transplant Fellowship  
Training Program

**Thomas Todoran, M.D., MSc**  
Associate Professor of Medicine  
Division of Cardiology

**Adrian B. Van Bakel, M.D., PhD**  
Professor of Medicine  
Division of Cardiology

**Ashley Waring, M.D.**  
Assistant Professor of Medicine  
Division of Cardiology

**Ramsey Wehbe, M.D.**  
Assistant Professor of Medicine  
Division of Cardiology

**J. Marcus Wharton, M.D.**  
Frank P. Tourville Professor of Medicine  
Director, Tourville Arrhythmias Center  
Director, Cardiac Electrophysiology Training  
Program

**Michael R. Zile, M.D.**  
Charles Ezra Daniel Professor of Medicine  
Distinguished University Professor  
Division of Cardiology  
RHJ Department of Veterans Affairs Medical  
Center, Charleston, SC



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### NEEDS STATEMENT AND PROGRAM OVERVIEW

The management of patients with cardiac disease continues to evolve. The goal of this program is to provide the most current evidence-based diagnostic and treatment strategies for your patients. Related areas to cardiology will be covered such as management of hypertension, pulmonary embolus of cardiac patients and management of heart failure. The program structure will focus on case-based presentations including lectures, breakfast cases, panel discussions, and use of our audience response system to provide opportunities for all participants to interact with the conference faculty. This three day program in clinical cardiology is designed for the cardiologist, primary care physician, internist, practicing cardiovascular specialist, cardiovascular nurse and physician assistant.

### CANCELLATIONS

A refund will be made upon written request prior to April 25, 2023; however \$100 will be retained for administrative costs. No refunds will be made after April 25, 2023. We reserve the right to cancel the conference if necessary. Full registration fees will be refunded for canceled programs. The Medical University of South Carolina cannot be responsible for reimbursement of airline or other transportation fares, hotel or rental car charges, including penalties. By registering for this conference, you acknowledge and agree to this cancellation policy.

### DISCLOSURE STATEMENT

In accordance with the ACCME Standards for Integrity and Independence in Accredited Continuing Education anyone involved in planning or presenting this educational activity will be required to disclose any financial relationships with any ineligible companies. An ineligible company is any entity whose primary business is producing, marketing, selling, reselling, or distributing healthcare products used by or on patients. Any financial relationships with these ineligible companies have been mitigated by the MUSC Office of CME. 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.

### 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 continuing medical education activity, please call the Office of CME at 843-876-1925.



### CREDIT DESIGNATION STATEMENT

The Medical University of South Carolina designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAFP: Application for Continuing Medical Education credits has been filed with the American Academy of Family Physicians. Determination of credits is pending.

American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credit<sup>™</sup> from organizations accredited by ACCME.

American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit(s)<sup>™</sup> from organizations accredited by ACCME. PAs may receive a maximum of 13.5 AAPA Category 1 Credits for completing this activity.



Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 13.5 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 participants completion information to ACCME for the purpose of granting ABIM MOC credit.

### 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.

**QUESTIONS?** Call the Office of CME at 843-876-1925 or email [cmeoffice@musc.edu](mailto:cmeoffice@musc.edu)

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## EVIDENCE-BASED MANAGEMENT

May 25-27, 2023 • Hyatt Place Hotel, Charleston, South Carolina

### COURSE AGENDA

#### Thursday, May 25

7:30 am	Sign in and Breakfast
7:30 am	Bring Your Interesting Cases
8:30 am	Management of Atrial Fibrillation - Rate or Rhythm Control, <i>Rachel Kaplan, M.D.</i>
8:50 am	Stroke Prevention in AFib - Anticoagulants and Left Atrial Occluders, <i>Marcus Wharton, M.D.</i>
9:10 am	When Can Wearable Devices Help in Patient Management? <i>Mo Elshazly, M.D.</i>
9:30 am	Cardiac Device Infection: Importance of Early Recognition & Treatment, <i>Anne Kroman, D.O.</i>
9:50 am	New Options for Pacing: Leadless Pacemakers & Conduction System Pacing, <i>Josh Payne, M.D.</i>
10:10 am	Faculty Panel Q&A
10:30 am	BREAK with EXHIBITORS
10:50 am	Obesity as a Cardiovascular Risk Factor, <i>Marc-André Cornier, M.D.</i>
11:10 am	Contemporary Approaches in Lipid Management, <i>Pamela Morris, M.D.</i>
11:30am	Lipoprotein and Residual CVD Risk, <i>Ashley Waring, M.D.</i>
11:50 am	Hypertension in Special Populations, <i>Jan Basile, M.D.</i>
12:10 pm	Nutrition for the Busy Clinician, <i>Janet Carter, RDN, CLS, FNLA</i>
12:30 pm	Faculty Panel Q&A
12:50 pm	MOC Assessment
1:00 pm	Adjourn for the Day

#### Friday, May 26

7:30 am	Sign in and Breakfast
7:30 am	Bring Your Interesting Cases, <i>Drs Tedford &amp; Griffin</i>
8:30 am	Implications for Living in the Sarcoid Belt: Diagnosis and Management of Cardiac Sarcoid, <i>Jan Griffin, M.D.</i>
8:50 am	My Approach to Evaluation and Management of a HFrEF Referral: Zile Top 10 <i>Michael Zile, M.D.</i>
9:10 am	Multi-Disciplinary Approach to Management of Hypertrophic Cardiomyopathy <i>Christopher Nielsen, M.D.</i>
9:30 am	Management of the Heart Failure Patient with CKD/ESRD, <i>Chakradhari Inampudi, M.D.</i>
9:50 am	Inpatient to Outpatient Transitions of Care: The Role of APP Led HF Discharge Clinic, <i>Denise Perrella, NP, Shannon Cornell, NP</i>

#### Friday, May 26 Continued

10:10 am	Faculty Panel Q&A
10:30 am	BREAK with EXHIBITORS
10:50 am	How I Recognize Patients with Advancing Heart Failure, <i>Joshua "Bear" Coney, M.D.</i>
11:10 am	What YOU Need to Know About LVADs <i>Brian Houston, M.D.</i>
11:30 am	Major Steps Forward in Cardiac Transplantation <i>Adrian Van Bakel, M.D., PhD</i>
11:50 am	Cardiogenic Shock: Best practices in the CCU <i>Anthony Carnicelli, M.D.</i>
12:10 pm	Best of the Best: Heart Failure Cases of the Year <i>Jagpreet Grewal, M.D. Michael Rofael, M.D.</i>
12:30 pm	Faculty Panel Q&A
12:50 pm	MOC Assessment
1:05 pm	Adjourn for the Day

#### Saturday, May 27

7:30 am	Sign in and Breakfast
8:00 am	Update on Cardiogenic Shock & Acute Mechanical Circulatory Support, <i>Michele Esposito, M.D.</i>
8:20 am	How to Manage Aortic Valve Disease in Younger Patients, <i>Daniel Steinberg, M.D.</i>
8:40 am	Treatment of Acute Pulmonary Embolism: Is Anticoagulation Alone a Thing of the Past? <i>Thomas Todoran, M.D.</i>
9:00 am	High Risk PCI: When and How to do it Safely, <i>Valerian Fernandes, M.D.</i>
9:20 am	Faculty Panel Q&A
9:40 am	BREAK with EXHIBITORS
10:00 am	Point of Care Ultrasound (POCUS) Update, <i>Ryan Barnes, D.O.</i>
10:20 am	Imaging in Congenital Heart Disease, <i>Stephanie Gaydos, M.D.</i>
10:40 am	Growing Role of AI in Cardiac Imaging, <i>Ramsey Wehbe, M.D.</i>
11:00 am	Multimodality Imaging for Cardiac Amyloid, <i>Ramsey Wehbe, M.D.</i>
11:20 am	Faculty Panel Q&A
11:40 am	Closing Remarks
11:45 am	MOC Assessment
12:00 pm	Adjourn for the day



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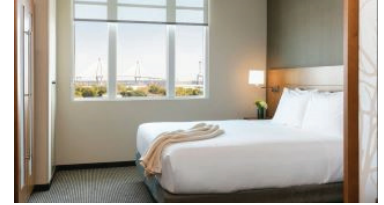
### LEARNING OBJECTIVES

Upon completion of this Live Activity, participants should be able to:

- Describe indications for rhythm control
- Describe goals for adequate rate control
- Describe when to refer atrial fibrillation patients to EP
- Extract and interpret data available from wearable monitoring devices
- Utilize data from wearable devices in clinical care
- Build clinical practice that incorporates wearable device data
- Discuss the benefits of weight loss on cardiovascular risk factors
- Review the optimal lifestyle changes for obesity management
- Update on the role of new anti-obesity medications
- Implement combination lipid lowering therapy at new lower threshold for patients with very high ASCVD risk
- Incorporate newer non-statin therapies for high-risk patients
- Utilize coronary artery calcium scoring to guide clinical decision making for lipid lowering therapy
- Facilitate management of at-risk patients with partial or complete statin intolerance
- Discuss the structure and pathogenic mechanisms of lipoprotein(a) in cardiovascular disease
- Identify the patients who benefit from lipoprotein (a) measurement
- Recognize the current and developing treatment options for patients with elevated lipoprotein (a)
- Discuss hypertension in special populations that include: the pregnant patients, patients with resistant hypertension, patients with chronic kidney disease and hypertension, older patients, and African American patients
- Effectively translate the recommendation for saturated fat intake into useful/practical information for patients
- Field questions regarding popular supplements that tout lipid benefits by being armed with the latest information
- Feel confident discussing sensitive topics like weight management
- Feel confident utilizing motivational interviewing and behavior change in a busy practice
- Discuss Cardiac MRI vs Cardiac PET
- Review monitoring response to therapy
- Implement ACC/AHA GDMT for HFrEF
- Determine indications for right heart cath with exercise
- Review available evidence for each of the foundational heart failure therapies in advanced kidney disease and end stage kidney disease
- Review current challenges and barriers to managing HF in patients with co-existent advanced kidney disease & end stage kidney disease
- Future directions to optimize therapeutic strategies in HF with co-existent advanced kidney disease and End stage kidney disease
- Discuss blueprint for MUSC APP led HF discharge clinic & work flow
- Identify essential HF clinic components, services, resources
- Identify goals of HF discharge clinic
- Discuss MUSC Heart failure 30 day readmission statistics/data since implantation of HF clinic
- Develop partnerships with other subspecialties, integration of technology and virtual visit infrastructure (Takes a village)
- Discuss the pathophysiology of HF & how to do a physical exam
- Identify the clinical markers of advancing heart failure
- Decipher the right heart catheterization
- Describe recently adopted methods used to expand the donor pool, facilitating heart transplant volumes
- Describe newer methods of noninvasive surveillance for transplant allograft rejection
- Explain the role of the cardiogenic shock team
- Appreciate the growth of mechanical circulatory support for the treatment of cardiogenic shock
- Recognize the evolution of the "CCU" into a contemporary "Cardiac Intensive Care Unit"

### CONFERENCE HOTEL INFORMATION

**The Hyatt Place Hotel**  
560 King Street  
Charleston, SC 29403  
(843) 414-4900



A block of rooms has been reserved at the Hyatt Place Charleston, 560 King Street, Charleston, SC 29403.

The conference rate is

**\$259++** and the room block for conference registrants will be held until **Monday, April 24, 2023**. *The room block may fill prior to April 24, 2023 and availability cannot be guaranteed. We suggest you make your reservation as soon as possible.* To make your reservation, please call the hotel at 1-800-993-4751 and reference the Cardiology Conference. You can also make your reservations by going to the following link: <https://www.hyatt.com/en-US/group-booking/CHSZH/G-MUCA> or the following QR Code:



**Parking:** Current Parking fees per day are as follows: Valet Parking rate is currently \$36.00 per day & will be charged to individual guest rooms on a nightly basis. Self-parking is located in the Charleston County Municipal Parking Garage located behind the Hotel. Self-parking is a separate charge paid directly to the garage upon exiting. Current fee is \$20.00 per day, and subject to change.

Make your hotel Reservation before April 24 !

### ACCESS TO RECORDED PRESENTATIONS

The MUSC Office of CME, with the permission of each speaker, will be recording each presentation of the conference. The videos will be posted online after the conference and be available for those who are not able to live stream the entire conference. Viewing the videos will offer the same amount of CME credit and can be viewed for up to 14 days following the posting date. The non-refundable fee for this service is \$100.00 and is **only available to individuals registered for the conference**. Access to the videos will be granted to attendees who purchase this option in advance of the conference.

Credit Designation: The Medical University of South Carolina designates this enduring material for a maximum of 2.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup> for each section. Physicians should only claim the credit commensurate with the extent of their participation in the activity.

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## EVIDENCE-BASED MANAGEMENT

May 25-27, 2023 • Hyatt Place Hotel, Charleston, South Carolina

### REGISTRATION INFORMATION

	On or Before 3/31/2023	On or After 4/1/2023
Physicians in Practice	\$575.00	\$650.00
Residents & All Other Health Professionals	\$475.00	\$550.00

The fee for in-person attendance includes tuition, breaks, online syllabus, and certificates of attendance. The fee for live streaming the meeting includes tuition, online syllabus, and certificates of attendance.

No pre-registrations will be accepted after **April 25, 2023**. After this date, you must contact the Office of CME at 843-876-1925 to see if space is still available. If space is available you must register on-site. Note: There will be an increased rate for on-site registrations!

### REGISTRATION METHODS

(Please use ONE of these methods to register. Do not mail if previously faxed or telephoned).

- **Online:** Complete registration through the [Online Registration Portal](#)
- **Mail:** Please send registration form with check payable to "Medical University of South Carolina" or credit card information to: Odessa Ussery, Office of CME - MUSC, 96 Jonathan Lucas Street, HE 221A, MSC 754, Charleston, SC 29425
- **Telephone:** 843-876-1925 - Credit card only.
- **Fax:** 843-876-1931 - Credit card only. (Secured area)
- **Email:** Email/Scan Scan completed registration form to [cmeoffice@musc.edu](mailto:cmeoffice@musc.edu)

### TOUR HISTORIC CHARLESTON AND EXPERIENCE SPOLETO FESTIVAL USA 2023



Photos © Spoleto Festival USA

"For 17 days and nights each spring, Spoleto Festival USA fills Charleston, South Carolina's historic theaters, churches, and outdoor spaces with performances by renowned artists as well as emerging performers in opera; theater; dance; and chamber, symphonic, choral, and jazz music. Now approaching its 42nd season, Spoleto Festival USA is internationally recognized as America's premier performing arts festival." -*SpoletoUSA.org*

For more information, call 843-722-2764 or visit [spoletousa.org](http://spoletousa.org)

### CHARLESTON, SOUTH CAROLINA

Charleston is America's most beautifully preserved architectural and historic treasure. Formal gardens magnify the beauty of stately old homes and church bells toll the hour as history unfolds around each corner. Browse through Charleston's famous open-air market and marvel at sweetgrass baskets and other crafts. Visit the inviting boutiques, art galleries and antique shops along Meeting and King Streets. Enjoy many of the South's most celebrated restaurants. **Experience Charleston and its Southern hospitality!**

*Voted #1 City in the USA by the readers of Condé Nast Traveler and Travel & Leisure Magazines*

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### REGISTRATION FORM

Name \_\_\_\_\_ Personal ID# XXX - XX - \_\_\_\_\_  
(As you would like it printed on your name badge) (Last four digits of your SSN)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Specialty \_\_\_\_\_ Degree/Credentials \_\_\_\_\_

Email \_\_\_\_\_  
(Please provide your active email address to ensure proper receipt of all CME Credit documentation.)

Phone (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

#### PLEASE READ THE STATEMENTS BELOW AND CHECK THE BOX IF YOU AGREE TO

- ☐ YES I give permission to the MUSC Office of CME to share my name, city, and state with other attendees and the companies that will be exhibiting at and/or supporting the conference through educational grants.
- ☐ NO I do not give permission to the MUSC Office of CME to share my name, city, and state with other attendees and the companies that will be exhibiting at and/or supporting the conference through educational grants.

#### REGISTRATION TYPE

PLEASE SELECT THE REGISTRATION TYPE

☐ In-Person Registration

☐ Virtual Registration

#### REGISTRATION FEES & METHOD OF PAYMENT

	On or Before 3/31/2023	On or After 4/1/2023
Physicians in Practice	<input type="checkbox"/> \$575.00	<input type="checkbox"/> \$650.00
All Other Health Professionals	<input type="checkbox"/> \$475.00	<input type="checkbox"/> \$550.00

I would like access to the recorded videos for an additional fee of \$100\*

☐ YES

☐ NO

\*The videos will be posted online after the conference. Viewing the videos will offer the same amount of CME credit and can be viewed for up to 14 days following the posting date

The fee for in-person attendance includes tuition, breaks, online syllabus, and certificates of attendance. The fee for live streaming the meeting includes tuition, online syllabus, and certificates of attendance.

☐ Enclosed Check Payable to Medical University of South Carolina

☐ MasterCard

☐ Visa

☐ Discover

☐ American Express

Card Number

Expiration Date

CVV Code

Name as it appears on card

(Please use ONE of these methods to register. Do not mail if previously faxed or telephoned).

- **Mail** registration form with check made out to "Medical University of South Carolina" or credit card information to:  
MUSC Office of CME, 96 Jonathan Lucas Street, HE221A, MSC 754, Charleston, SC, 29425
- **Telephone:** (843) 876-1925 – Registration by credit card only.
- **Fax:** (843) 876-1931 – Registration by credit card only.
- **Email:** Scan & email completed registration form to [cmeoffice@musc.edu](mailto:cmeoffice@musc.edu)
- **Online:** Complete registration through the [Online Registration Portal](#)



[www.musc.edu/cme](http://www.musc.edu/cme)

#### CANCELLATION

A refund will be made upon written request prior to **April 25, 2023** less a \$100 cancellation fee. We reserve the right to cancel the program if necessary. Full registration fees will be refunded for cancelled programs. The University cannot be responsible for reimbursement of airline or other transportation fares, hotel or rental car charges, including penalties. *By registering for this conference, you acknowledge and agree to this cancellation policy.*