



# Charleston HFpEF Conference

The Latest Knowledge on Heart Failure with preserved Ejection Fraction

## JULY 28-30, 2023

### HYATT PLACE HOTEL

### CHARLESTON, SC

For More Information:

Visit [www.musc.edu/cme](http://www.musc.edu/cme), Call the Office of CME,  
843-876-1925 or email [cmeoffice@musc.edu](mailto:cmeoffice@musc.edu)



College of Medicine



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## COURSE FACULTY

### CONFERENCE DIRECTORS

#### Sheldon Litwin, M.D., FACC, FAHA, FASE, FSCCT

Alicia Spaulding-Paolozzi endowed chair  
South Carolina Center of Economic Excellence  
Professor of Medicine, Cardiology and Radiology  
Director of Echocardiography  
Medical University of South Carolina  
Associate Editor, Journal of the American Society of Echocardiography

#### Selma Mohammed, M.D.

Associate Professor of Medicine  
Director of Heart Failure  
Creighton University School of Medicine/CHI Health  
Omaha, NE

### CONFERENCE CO-DIRECTORS

#### Ryan J. Tedford, M.D., FACC, FAHA, FHFSA

Dr. Peter C. Gazes Endowed Chair in Heart Failure  
Professor of Medicine/Cardiology  
Section Chief, Heart Failure  
Medical Director, Cardiac Transplantation  
Director, Advanced Heart Failure & Transplant Fellowship  
Training Program

#### Ambarish Pandey, M.D.

Assistant Professor of Medicine  
Director- HFpEF Program at UT  
Southwestern, Dallas, TX

#### Harriette G.C. Van Spall, M.D., MPH, FRCPC

Associate Professor of Medicine  
Director of E-Health and Virtual Care  
Division of Cardiology, Department of Medicine  
Department of Health Research Methods, Evidence, and Impact  
Scientist, Population Health Research Institute and  
Research Institute of St. Joe's McMaster University  
Hamilton, ON

#### Michael R. Zile, M.D.

Charles Ezra Daniel Professor of Medicine  
Medical University of South Carolina  
Chief, Division of Cardiology  
RHJ Veterans Affairs Medical Center

### MUSC FACULTY

#### Nicholas Amoroso, M.D.

Assistant Professor of Medicine, Division of Cardiology

#### Jessic Atkins, M.D.

Assistant Professor of Medicine, Division of Cardiology

#### Anthony Carnicelli, M.D.

Assistant Professor of Medicine, Division of Cardiology

#### Shannon Cornell, NP

Division of Cardiology

#### Jan Griffin, M.D.

Assistant Professor of Medicine, Division of Cardiology

#### Brian Houston, M.D.

Associate Professor of Medicine, Division of Cardiology  
Medical Director, Mechanical Circulatory Support

#### Anne Kroman, D.O., PhD

Assistant Professor of Medicine, Division of Cardiology

#### Denise Perrella, NP

Division of Cardiology

#### Nicole Schulte, PA-C

Division of Cardiology

#### Daniel Silverman, M.D.

Assistant Professor of Medicine, Division of Cardiology

#### Ramsey Wehbe, M.D.

Assistant Professor of Medicine, Division of Cardiology

### GUEST FACULTY

#### Eugene Chung, M.D.

Director of Heart Failure  
Ohio Heart and Vascular Center and  
The Christ Hospital Lindner Center for Research and Education  
Cincinnati, OH

#### Mark E. Dunlap, M.D., MPH

Professor of Medicine, Physiology and of Biophysics  
The MetroHealth Campus of Case Western Reserve University  
Cleveland, OH

#### Marat Fudim, M.D, M.H.S.

Assistant Professor of Medicine  
Division of Cardiology  
Director of Heart Failure Site Based Research  
Director of the Heart Failure Remote Monitoring Clinic  
Duke University, Durham, NC

#### John Mandrola, M.D.

Cardiac Electrophysiologist  
Baptist Health Louisville  
Louisville, KY

#### Robert J. Mentz, MD

Chief, Heart Failure Section  
Duke University Medical Center  
Associate Program Director  
Duke Cardiovascular Disease Fellowship  
Editor-in-Chief, Journal of Cardiac Failure  
Official Journal of the HFSA  
Durham, NC

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## COURSE AGENDA

### FRIDAY, JULY 28

- 12:00 p.m. Registration and Exhibit Hall Open
- 12:50 p.m. Join Live Stream Session/Welcome  
*Session Chair, Dr. Litwin*
- 1:00 p.m. Mechanisms of Diastolic Dysfunction (Fibrosis, Myofilaments, etc) and How to Make Them Therapeutic Targets, *Michael Zile, M.D.*
- 1:35 p.m. From Clinical Trials to Individual Patients: A Primer on Shared Decision Making, *John Mandrola, M.D.*
- 2:10 p.m. Exercise Training as Therapy for HFpEF: How Does it Work? What Type is Best? *Ambarish Pandey, M.D.*
- 2:45 p.m. Break/Exhibit Hall  
*Session Chair, Dr. Silverman*
- 3:00 p.m. Top HFpEF Papers of the Year, *Ryan Tedford, M.D.*
- 3:35 p.m. "Opti"-Volemia: When Is Your Patient Ready for Discharge? *Daniel Silverman, M.D.*
- 4:10 p.m. Break/Exhibit Hall  
*Session Chair, Dr. Tedford*
- 4:25 p.m. Valve Issues in HFpEF: The Patient Who is Still Short of Breath After TAVR; Who Needs Tricuspid Valve Clipping? *Nicholas Amoroso, M.D.*
- 5:00 p.m. Which Diuretic(s) are Best in HF? Update Based on Recent Clinical Trials, *Robert Mentz, M.D.*
- 5:35 p.m. Adjourn for the day
- 5:40 p.m. MOC Assessment (for those interested in receiving MOC Credit)
- 5:45 p.m. Cocktail Reception in Exhibit Hall
- 7:00 p.m. Reception Concludes

### SATURDAY, JULY 29

- 7:00 a.m. Registration/Exhibit Hall Open/Breakfast
- 7:50 a.m. Join Live Stream Session/Welcome  
*Session Chair, Dr. Zile*
- 8:00 a.m. Ask the Experts: Challenges in HFpEF Management and Diagnosis (Is it HF or age? HFpEF with Severe Obesity; Concomitant Lung Disease; Pulmonary HT; ESRD or Advanced CKD; Hyperkalemia, Etc, *Drs. Daniel Silverman, Eugene Chung, Brian Houston, Michael Zile, Tony Carnicelli*
- 8:35 a.m. Artificial Intelligence in the Diagnosis and Treatment of HFpEF, *Ramsey Wehbe, M.D.*
- 9:10 a.m. POTS and Reverse-POTS in HFpEF: Recognizing and Managing Inadequate Preload Reserve, *Mark Dunlap, M.D.*
- 9:45 a.m. Break/Exhibit Hall  
*Session Chair, Dr. Litwin*
- 10:00 a.m. Weight Loss as Treatment for HFpEF: An Update on Drugs and Procedures, *Sheldon Litwin, M.D.*
- 10:35 a.m. Stimulating Therapies for HFpEF: CCM, Barostimulation, Phrenic Nerve Stimulation, Etc, *Marat Fudim, M.D.*
- 11:10 a.m. Break/Exhibit Hall
- 11:25 a.m. The Evolving Field of Atrial Shunt Therapies for HFpEF: the "Holey" Grail?, *Brian Houston, M.D.*
- 12:00 p.m. Abstract Competition, *Ryan Tedford, M.D.*
- 12:45 p.m. Adjourn for the day
- 12:50 p.m. MOC Assessment (for those interested in receiving MOC Credit)





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## COURSE AGENDA

### SUNDAY, JULY 30

- 7:00 a.m. Registration/Exhibit Hall Open/Breakfast
- 7:50 a.m. Join Live Stream Session/Welcome  
*Session Chair, Dr. Litwin*
- 8:00 a.m. Tips on How to Set and Run a Post-Hospital Discharge Heart Failure Clinic,  
*Shannon Cornell, NP, Nicole Schulte, PA-C, Denise Perrella, NP*
- 8:35 a.m. Application and Interpretation of Common Patient Reported Outcome Measures Used in Heart Failure Clinical Trials,  
*Harriette Van Spall, M.D.*
- 9:10 a.m. Update on Cardiac Amyloid, *Jan Griffin, M.D.*
- 9:45 a.m. Break/Exhibit Hall  
*Session Chair, Dr. Houston*
- 10:00 a.m. AF Management in HFpEF: Does Ablation Make Things Worse or Better? *Anne Kroman, D.O., PhD*
- 10:35 a.m. Coronary Microvascular Disease in HFpEF: Pathophysiology, Diagnosis and Management,  
*Selma Mohammed, M.D.*
- 11:10 a.m. Hypertrophic Cardiomyopathy as a Form of HFpEF: Diagnosis, Drugs and Procedures,  
*Jessica Atkins, M.D.*
- 11:45 a.m. Wrap-up (Dr. Litwin, Dr. Tedford, Dr. Zile) and Adjourn until 2024
- 11:50 a.m. MOC Assessment (for those interested in receiving MOC Credit)

## 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.

## HOTEL ACCOMMODATIONS

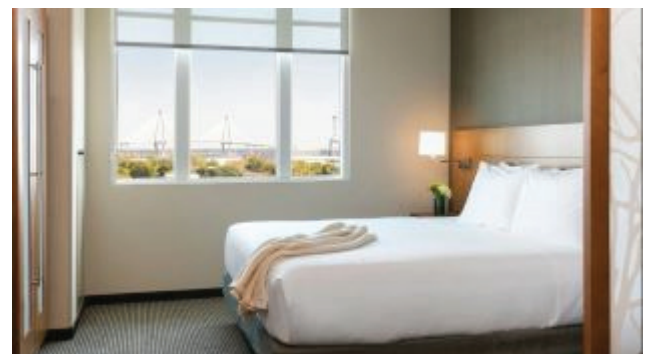
The Hyatt Place Hotel  
560 King Street  
Charleston, SC 29403  
(843) 414-4900

A block of rooms has been reserved at the Hyatt Place Charleston, 560 King Street, Charleston, SC 29403. The conference rate is **\$269++** and the room block for conference registrants will be held until **Tuesday, June 27, 2023**. The room block may fill prior to June 27, 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 Charleston HFpEF Conference. You can also make your reservations by going to the following link: <https://www.hyatt.com/en-US/group-booking/CHSZH/G-HFPE> 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 June 27 !



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## TARGET AUDIENCE

This course is intended for cardiovascular specialists, heart failure specialists, practicing cardiologists, cardiovascular advanced practice providers (NP or PA), internists, family physicians, pharmacist, cardiovascular nurses, critical care nurses, and industry representatives.

## KNOWLEDGE GAPS

There are now more patients who have Heart Failure with preserved Ejection Fraction (HFpEF) than those with reduced Ejection Fraction (HFrEF). Making the diagnosis of HFpEF is more challenging than HFrEF as many commonly used screening tools such as physical examination, echocardiography and measurement of natriuretic peptide levels are less sensitive and specific in this population. Most importantly, most therapies studied have not been shown to improve major cardiovascular outcome, and those that have shown reductions in heart failure hospitalizations have modest absolute reductions and little or no improvement in quality of life metrics.

### Physician Credit Statement

The Medical University of South Carolina designates this live activity for a maximum of 12.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Other Credit Statements

**Nurses:** Most states accept CMEs that apply to a specific nursing specialty as nursing continuing education. Please check with your respective State Board of Nursing to ascertain the equivalent number of contact hours offered for 12.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>.

**PAs:** AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit(s)*<sup>™</sup> and Prescribed credit from AAFP from organizations accredited by ACCME or a recognized state medical society. The MUSC Office of CME provides certificates to PAs with a statement, approved by AAPA, that PAs may receive a maximum of 12.0 AAPA Category 1 Credits for this conference.



Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 11.75 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.

**Offering  
In-person & Virtual Registrations**

## CONFERENCE OBJECTIVES

At the completion of this conference, participants should be able to:

1. Review the latest evidence on the optimal choices of diuretics in heart failure.
2. Discuss new approaches to giving advice about sodium and fluid restriction in patients with heart failure.
3. Effectively prescribe medications for weight management in patients with HFpEF
4. Engage in shared decision making with your patients about the value of newer treatments
5. Discuss the mechanisms of diastolic dysfunction in patients with HFpEF
6. Design and implement a HF clinic for follow up of recently hospitalized HF patients

## ACCREDITATION

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

## DISCLOSURE

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.

## ENDORSEMENT



Officially endorsed by the Heart Failure Society of America. The opinions presented in this educational activity do not necessarily reflect the opinions or recommendations of the HFSA.

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### 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 0.5 *AMA PRA Category 1 Credit(s)*<sup>TM</sup> for each video. Physicians should only claim the credit commensurate with the extent of their participation in the activity.

### REGISTRATION INFORMATION

	Early Bird (on/before 3/31/2023)	Regular (after 4/1/2023)
Practicing Physicians (Virtual or in-person)	\$350	\$400
NP, PA, RPh, Resident, Retired, Other (Virtual or in-person)	\$250	\$300
MUSC Employee* (Virtual or in-person)	\$250	\$250

\*MUSC Division of Cardiology faculty and staff should call the Office of CME at 843-876-1925 to register.

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.

Pre-registrations will be accepted until July 21, 2023 or until the conference capacity is reached. After this date, you must contact the MUSC Office of CME ([cmeoffice@musc.edu](mailto:cmeoffice@musc.edu) or 843-876-1925) to see if space is still available.

#### REGISTRATION METHODS:

Please use ONE of these methods to register.

1. Mail registration form with check\* or credit card information to:

MUSC Office of CME  
96 Jonathan Lucas Street  
HE221A, MSC 754  
Charleston, SC 29425

\*Checks should be made out to "Medical University of South Carolina"

2. Email/Scan Scan completed registration form to [cmeoffice@musc.edu](mailto:cmeoffice@musc.edu)

3. Complete registration through the [Online Registration Portal](#) or the following QR code:



### CANCELLATION

A refund will be made upon written request prior to June 28, 2023 less a \$100 cancellation fee. After June 28, 2023 no refunds will be made. We reserve the right to cancel the program if necessary. Full registration fees will be refunded for cancelled programs.

By registering for this conference, you acknowledge and agree to this cancellation policy

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July 28-30, 2023



College of Medicine

By Registering for this conference, you acknowledge and agree to the cancellation policy stated below.

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

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

- ☐ 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.

## PLEASE SELECT THE APPROPRIATE RATE(S)

Practicing Physicians  
NP, PA, RPh, Resident, Retired, Other  
MUSC Employee\*

### Early Bird (On/Before 3/31/2023)

- ☐ \$350  
☐ \$250  
☐ \$250

### Regular (After 4/1/2023)

- ☐ \$400  
☐ \$300  
☐ \$250

\*MUSC Division of Cardiology faculty and staff should call the Office of CME at 843-876-1925 to register.

## PLEASE SELECT THE REGISTRATION TYPE

☐ In-Person Registration

☐ Virtual Registration

## ACCESS TO RECORDED PRESENTATIONS\*\*

Yes, I would like access to the recorded videos for an additional fee  
No, I do not want access to the recorded videos for an additional fee

- ☐ \$100  
☐ N/A

- ☐ \$100  
☐ N/A

\*\* 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

## CONFERENCE REGISTRATION MAY BE CHARGED TO:

- ☐ Enclosed Check Payable to MUSC ☐ MasterCard ☐ Visa ☐ Discover ☐ American Express

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Name as it appears on card \_\_\_\_\_

CVV Security Code \_\_\_\_\_

Authorized amount to be charged \_\_\_\_\_

## REGISTRATION METHODS (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  
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