43rd Annual Cardiology Update
Evidence-Based Management

June 5–8, 2019
The Francis Marion Hotel
Historic Charleston, South Carolina
During Spoleto Festival USA

For more information, contact the MUSC Office of CME: 843-876-1925, cmeoffice@musc.edu, or visit musc.edu/cme
COURSE FACULTY

COURSE DIRECTOR
Michael R. Gold, M.D., Ph.D.
Michael Assey Professor of Medicine
Division of Cardiology

ASSISTANT COURSE DIRECTOR
Christopher D. Nielsen, M.D.
Associate Professor
Director, Adult Cardiac Cath Labs
Director, Interventional Fellowship Program

VISITING FACULTY
Patrick J. McCann, M.D.
Clinical Assistant Professor, University of South Carolina School of Medicine
Director, Heart Failure and Mechanical Circulatory Support,
Palmetto Health Heart Hospital

MUSC CARDIOLOGY FACULTY

Nicholas Amoroso, M.D.,
Assistant Professor

Jan Basile, M.D., Professor

Richard Bayer, M.D., Assistant Professor
of Medicine and Radiology

Michael L. Craig, M.D.,
Assistant Professor
Associate Director, Adult Cardiology Fellowship Program

Thomas DiSalvo, M.D., MPH, MBA
Professor of Medicine
Volpe SmartState® Endowed Chair in Cardiovascular Biomarker Development and Molecular Proteomics
Director, Division of Cardiology
Director, Heart and Vascular Integrated Center of Excellence

Valerian L.C. Fernandes, M.D., Professor
Director, Cardiac Catheterization Laboratory
Ralph H. Johnson VAMC

Michael Field, M.D., FACC, FHRS, FAHA, Associate Professor
Director, Cardiac Electrophysiology
Ralph H. Johnson VAMC

David Gregg, IV, M.D.,
Associate Professor
Director, Adult Congenital Heart Disease
Medical Director, Adult Echo Lab

Brian Houston, M.D., Assistant Professor
Medical Director, Mechanical Circulatory Support

Gregory R. Jackson, M.D.,
Assistant Professor

Daniel P. Judge, M.D.,
Professor of Surgery
Director, Cardiovascular Genetics
Director, Adult Cardiology Fellowship Program

Lucian Lozonschi, M.D., Professor
Director, Surgical Heart Failure & Cardiac Transplantation

Anbukarasi Maran, M.D.,
Assistant Professor
Director, Coronary Chronic Total Occlusion Program

Pamela B. Morris, M.D., Associate Professor
Director Cardiovascular Prevention Program

Eric R. Powers, M.D., FACC, Professor
Gazes Endowed Chair in Cardiology

Bhavadharini Ramu, M.D.,
Assistant Professor

Daniel H. Steinberg, M.D., Professor
Director, Structural Heart Program

Ryan J. Tedford, M.D., FACC, FAHA,
Associate Professor
Chief, Heart Failure

Thomas Todoran, M.D., MSc,
Associate Professor
Director, Cardiovascular Clinical Research
Director, Vascular Medicine

J. Marcus Wharton, M.D., Professor
Tourville Endowed Chair in Cardiology
Director, Frank P. Tourville Sr. Arrhythmia Center
Director, Electrophysiology Fellowship Program
Director, Clinical Cardiac Electrophysiology

Jeff Winterfield, M.D., Associate Professor
Hank and Laurel Greer Endowed Chair in Cardiac Electrophysiology

Michael R. Zile, M.D., Professor
Director of Cardiology, Ralph H. Johnson VAMC

QUESTIONS? Call the Office of CME at 843-876-1925 or email cmeoffice@musc.edu
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. Topics include but are not limited to screening and management of HTN in special patient populations, lipid management for CV risk reduction, strategies for risk reduction in PAD, treatment of pulmonary embolism and drug, controversies in treatment of CAD and device management options for HFrEF.

The program structure will focus on case-based presentations including breakfast cases, panel discussions, presentations and use of our audience response system to provide opportunities for all participants to interact with our conference faculty.

TARGET AUDIENCE & SCOPE OF PRACTICE

The four day program in clinical cardiology is designed for the cardiologist, primary care physician, internist, practicing cardiovascular specialist, cardiovascular nurse and physician assistant.

LEARNING OBJECTIVES

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

• Choose new treatment options in managing lipids for CV risk reduction
• Effectively screen and manage hypertension in special patient populations
• Discuss current controversies in the treatment of CAD
• Effectively use strategies for risk reduction in PAD
• Discuss new drug and device options for HFpEF
• Develop strategies to determine when to refer your advanced heart failure patients for LVAD and transplant

The final list of conference objectives will be available closer to the conference date.

CREDIT DESIGNATION STATEMENT

PHYSICIAN CREDIT

The Medical University of South Carolina designates this live activity for a maximum of 16.25 AMA PRA Category 1 Credit(s)™. 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.

OTHER CREDITS

American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credit(s)™ 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)™ from organizations accredited by ACCME. PAs may receive a maximum of 16.25 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 16.25 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.

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.

DISCLOSURE STATEMENT

The Medical University of South Carolina Office of CME requires anyone involved in planning or presenting CME activities to disclose any relevant financial relationships with commercial interests. Established policies are in place to identify and resolve all conflicts of interest prior to prior to this educational activity. Detailed disclosure will be made in the instructional materials.

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 or attach a note to your registration form by May 6, 2019.
# 43rd Annual Cardiology Update
## Evidence-Based Management
### June 5-8, 2019 • Francis Marion Hotel, Charleston, South Carolina

## Course Agenda

### Tuesday, June 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 pm</td>
<td>Early Registration • Mezzanine Level (until 6:00 pm)</td>
</tr>
</tbody>
</table>

### Wednesday, June 5

**Moderators: Pamela Morris M.D. and Jeffrey Winterfield, M.D.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am</td>
<td>Registration and Continental Breakfast for Registrants</td>
</tr>
<tr>
<td>8:00</td>
<td>Introduction and Welcome, Michael R. Gold, M.D., Ph.D.</td>
</tr>
<tr>
<td>8:10</td>
<td>Lipid Management for CV Risk Reduction in a New Era of Options, Pamela Morris, M.D.</td>
</tr>
<tr>
<td>8:40</td>
<td>Screening and Management of HTN in Special Patient Populations (Age, Sex, Ethnicity, etc.), Jan Basile, M.D.</td>
</tr>
<tr>
<td>9:10</td>
<td>Prevention Beyond the Heart: Strategies for Risk Reduction in PAD, Thomas Todoran, M.D.</td>
</tr>
<tr>
<td>9:40</td>
<td>Faculty Panel: Questions from Participants, Morris, Basile, Todoran</td>
</tr>
<tr>
<td>10:00</td>
<td>Refreshment Break and Visit the Exhibitors</td>
</tr>
<tr>
<td>10:20</td>
<td>Anticoagulation and Ablation of Atrial Fibrillation, Marcus Wharton, M.D.</td>
</tr>
<tr>
<td>10:50</td>
<td>Conundrums in Atrial Fibrillation Management, Michael Field, M.D.</td>
</tr>
<tr>
<td>11:20</td>
<td>Challenging Device Cases, Michael R. Gold, M.D., Ph.D.</td>
</tr>
<tr>
<td>11:50</td>
<td>Faculty Panel: Questions from Participants, Wharton, Field, Gold</td>
</tr>
<tr>
<td>12:10 pm</td>
<td>Adjourn for the Day</td>
</tr>
</tbody>
</table>

### Thursday, June 6

**Moderator: Christopher Nielsen, M.D.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am</td>
<td>Sign In and Continental Breakfast for Registrants</td>
</tr>
<tr>
<td>7:30</td>
<td>Coronary Disease Cases: Bring your Difficult Cases, Christopher Nielsen, M.D. and Valerian Fernandes, M.D.</td>
</tr>
<tr>
<td>8:30</td>
<td>Diagnosis and Treatment of Hypertrophic Cardiomyopathy, Christopher Nielsen, M.D.</td>
</tr>
<tr>
<td>9:00</td>
<td>Controversies in Treatment of CAD, Valerian Fernandes, M.D.</td>
</tr>
<tr>
<td>9:30</td>
<td>Antiplatelet and Antithrombotic Therapy in Patients with Coronary Stents, Eric Powers, M.D.</td>
</tr>
<tr>
<td>10:00</td>
<td>Treatment of Pulmonary Embolism: State of the Art, Thomas Todoran, M.D., MSc.</td>
</tr>
<tr>
<td>10:30</td>
<td>Faculty Panel: Questions from Participants, Nielsen, Fernandes, Powers, Todoran</td>
</tr>
</tbody>
</table>

### Friday, June 7

**Moderator: Ryan Tedford M.D.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am</td>
<td>Sign In and Continental Breakfast for Registrants</td>
</tr>
<tr>
<td>7:30</td>
<td>Heart Failure Cases: Bring your Difficult Cases, Ryan Tedford, M.D., Michael Craig, M.D., and Patrick McCann, M.D.</td>
</tr>
<tr>
<td>8:30</td>
<td>Drug and Device Management Options for HFrEF - What's New in 2019, Gregory Jackson, M.D.</td>
</tr>
<tr>
<td>9:00</td>
<td>Drug and Device Management Options for HFrEF - Novel, Approved, Effective Options, Michael Zile, M.D.</td>
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<tr>
<td>9:30</td>
<td>Elevated RSVP on Echo: What are the next steps? Ryan Tedford, M.D.</td>
</tr>
<tr>
<td>10:00</td>
<td>Advancing Heart Failure: When to Refer for LVAD and Transplant, Patrick McCann, M.D.</td>
</tr>
<tr>
<td>10:50</td>
<td>Refreshment Break and Visit the Exhibitors</td>
</tr>
<tr>
<td>11:10</td>
<td>Cardiac Amyloid: More Common than Previously Recognized, Daniel Judge, M.D.</td>
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<tr>
<td>11:35</td>
<td>Cardiac Sarcoid: When to Look for it and What to Do if you Find it? Brian Houston, M.D.</td>
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<tr>
<td>12:00 pm</td>
<td>Cardio-Oncology: More New Therapies and Lots More to Know, Bhavadhanini Ramu, M.D.</td>
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<tr>
<td>12:25</td>
<td>Faculty Panel: Questions from Participants, Judge, Houston, Ramu</td>
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<tr>
<td>12:45</td>
<td>Adjourn for the Day</td>
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</table>

*Agenda Continued on Following Page*
COURSE AGENDA (CONTINUED)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
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<td>7:30 am</td>
<td>Sign In and Continental Breakfast for Registrants</td>
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<tr>
<td>8:30</td>
<td>Preop Evaluation for Noncardiac Surgery: Case Studies, Christopher Nielsen, M.D.</td>
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<tr>
<td>9:00</td>
<td>Combining CABG and PCI: Hybrid Therapy for CAD, Lucian Lozonschi, M.D.</td>
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<tr>
<td>9:30</td>
<td>Congenital Heart Disease, David Gregg, M.D.</td>
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<tr>
<td>10:00</td>
<td>Refreshment Break and Visit the Exhibitors</td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>Appropriate Use of Cardiac CT, Richard Bayer, M.D.</td>
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<tr>
<td>10:50</td>
<td>TBD, Christopher Nielsen, M.D.</td>
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</tr>
<tr>
<td>11:50</td>
<td>Course Wrap-Up</td>
<td></td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Adjourn until 2020</td>
<td></td>
</tr>
</tbody>
</table>

CONFERENCE HOTEL INFORMATION

The Francis Marion Hotel, historic Charleston's landmark full service hotel, is in the heart of Charleston's historic district. Located at Marion Square, the Francis Marion Hotel is only a few blocks from the Charleston Visitor’s Center, the South Carolina Aquarium, restaurants, boutiques, galleries, museums, antique shops and nightlife. The hotel offers valet parking, spa, concierge, retail shops and the Swamp Fox Restaurant and Bar.

Special group rates start at $229.00, plus tax, per night. A limited number of guest rooms have been reserved and are being offered on a first come, first serve basis. The room block will be held until Monday, May 6, 2019; however the room block will fill prior to this date. In such a case, neither the group rate nor guest room availability can be guaranteed. Therefore, we recommend you make your reservation as soon as possible. Reservations can be made by calling the hotel directly at 843-722-0600 or 877-756-2121 and identifying yourself as being a participant in this conference, or by following the online directions below.

To make online reservations:
- Visit https://tinyurl.com/43rdCardiologyUpdate

Parking: Valet parking at the hotel is available at $22++ per day for overnight guests and can be added to your guest folio. In addition, self-parking is available at $17.00 per day, which must be paid directly to the parking garage in cash, MasterCard or Visa. Pricing is subject to change.

CANCELLATIONS

A refund will be made upon written request prior to May 6, 2019; however $100 will be retained for administrative costs. No refunds will be made after May 6, 2019. 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.

ELECTRONIC SYLLABUS - PLEASE NOTE!

The Conference syllabus will be provided online. Information will be emailed to you the week prior to the conference so that you may download/print a copy. A printed syllabus is available upon request at the time of your registration for an additional fee of $40.00.
REGISTRATION INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>On or Before 4/19/2019</th>
<th>After 4/19/2019</th>
<th>On Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicians in Practice</td>
<td>$625.00</td>
<td>$705.00</td>
<td>$755.00</td>
</tr>
<tr>
<td>Residents &amp; All Other Health Professionals</td>
<td>$480.00</td>
<td>$555.00</td>
<td>$605.00</td>
</tr>
<tr>
<td>Printed Course Syllabus</td>
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<td>$40.00</td>
<td>$40.00</td>
</tr>
</tbody>
</table>

Registration fee includes continental breakfasts, coffee breaks, electronic course syllabus and credit processing.

No pre-registrations will be accepted after June 1, 2019. 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: Visit www.musc.edu/cme. Please select “43rd Annual Cardiology Update” from the list of conferences on the main page, scroll down to “Conference Registration”, and follow directions as prompted

- 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)

TOUR HISTORIC CHARLESTON AND EXPERIENCE SPOLETO FESTIVAL USA 2019

SPOLETO FESTIVAL USA 2019 – MAY 24 - JUNE 9

“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

Some selections in this year’s Festival include...

- Opera/Music Theater: Salome, Path of Miracles
- Theater: The Fever, Roots, Shakespeare’s Globe
- Dance: One Thousand and One Nights, Bill T. Jones/Arnie Zane Company, Compagnie Hervé Koubi
- Music: Music in Time, Classical Showcase, Westminster Choir Concerts
- Wells Fargo Jazz: David Virelles, Mark Turner and Ethan Iverson, Carla Bley - Trios

For more information, call 843-722-2764 or visit 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 it’s Southern hospitality!

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Personal ID# XXX - XX - (As you would like it printed on your name badge)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>City State Zip</td>
</tr>
<tr>
<td>Specialty</td>
<td>Degree/Credentials</td>
</tr>
<tr>
<td>Email</td>
<td>(Please provide your active email address to ensure proper receipt of all CME Credit documentation.)</td>
</tr>
<tr>
<td>Phone (<em><strong><strong>) - (</strong></strong></em>)</td>
<td>Fax (<em><strong><strong>) - (</strong></strong></em>)</td>
</tr>
</tbody>
</table>

Would you like to receive ABIM MOC Part 2 Credit for this activity?  □ Yes  □ No

Birth date (Month & Day) ______ ABIM ID ______

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

- □ I do NOT want my name included on a list of participants to be included in handouts at the conference.
- □ YES, I do want a copy of the printed syllabus for $40.
- □ NO, I do not want a printed copy of the course syllabus.

**PLEASE SELECT THE APPROPRIATE RATE(S)**

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**CONFERENCE REGISTRATION MAY BE CHARGED TO:**

- □ Enclosed Check Payable to Medical University of South Carolina
- □ MasterCard  □ Visa  □ Discover  □ American Express

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- **Telephone:** (843) 876-1925 – Registration by credit card only.
- **Fax:** (843) 876-1931 – Registration by credit card only.
- **Online:** Visit [www.musc.edu/cme](http://www.musc.edu/cme). Please select "43rd Annual Cardiology Update" from the list of conferences on the main page, scroll down to “Conference Registration”, and follow directions as prompted.

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