Cardiovascular Medicine
Updates for the Practitioner

April 28 – May 2
2019
Boston, MA

Includes Recent Advances and New Practice Recommendations for
• Atherosclerosis, CAD, and inflammation
• Antithrombotic and antiplatelet agents
• Advanced heart failure
• Vascular medicine, including PAD
• Confronting challenges in atrial fibrillation
• Genetics (and the relevance to clinical decision-making)
• Cardiovascular imaging and stress testing
• Long-term antiplatelet therapy for coronary artery disease
• Expanded options for imaging and therapeutic technologies
• Treating cardiovascular patients with diabetes
• Critical care cardiology

Earn up to 42.00 AMA PRA Category 1 Credits™ • 42.00 ABIM MOC points (NEW) • 42.00 AAFP Prescribed credits

Under the direction of
Samuel Z. Goldhaber, MD
Peter Libby, MD
Patrick T. O’Gara, MD

> Long-term antiplatelet therapy for coronary artery disease
> Approaches to advanced heart failure management
> Emerging imaging and therapeutic technologies
> Intersection of cardiovascular medicine with diabetes and kidney disease

Register at Cardiovascular.HMSCME.com
Dear Colleague:

For nearly 18 years, renowned experts in Cardiovascular Medicine at Harvard Medical School and Brigham and Women's Hospital have delivered the once-every-2-years cardiovascular update. In April, we host Cardiovascular Medicine 2019: Updates for the Practitioner, and I invite you to join us.

If you provide care to patients with or at risk for cardiovascular conditions, this course will be invaluable. You can rely on this comprehensive program for clinical strategies, diagnostic and treatment updates, and for practice recommendations in all major areas of cardiovascular medicine, including:

- Atherosclerosis: inflammation and novel risk factors
- New developments in advanced heart failure
- Diabetes management merges with cardiovascular practice
- The changing face of coronary artery disease
- Pulmonary embolism and DVT
- Current refinements in cardiovascular imaging and stress testing
- Advances in genetics and its relevance to daily clinical practice
- Innovations in valvular heart disease

Our faculty, world-renowned for their clinical, research and teaching achievements, cover recent advances and current controversies in:

- Taming immune and inflammatory responses to treat atherosclerosis
- Treating and managing advanced heart failure
- Atrial fibrillation as a systemic cardiovascular illness
- Integrated multimodality cardiovascular imaging
- Pulmonary hypertension
- Late-breaking information regarding cardiovascular benefits and risks of antidiabetic drugs

With so many rapid advances in cardiovascular medicine, it is critically important to ensure your knowledge is both current and comprehensive. Our course provides new and returning attendees the opportunity to learn and interact closely with faculty and colleagues.

Sincerely yours,

Samuel Z. Goldhaber, MD
Course Director
Professor of Medicine, Harvard Medical School
Interim Chief, Division of Cardiovascular Medicine
Section Head, Vascular Medicine
Brigham and Women's Hospital

This program is among the highest-rated Harvard Medical School CME courses. It is offered once every two years. Early registration is strongly advised.
**Course Overview**

**Course Description**
This course is an intensive and comprehensive review of contemporary cardiovascular medicine. The objective of this five-day course is to provide a concise, state-of-the-art overview of the epidemiology, diagnosis, treatment, and prevention of cardiovascular disease, with focused sessions on atherosclerosis, acute coronary syndromes, congestive heart failure, cardiomyopathy, electrophysiology, vascular medicine, venous thromboembolism, cardiovascular imaging, and valvular heart disease.

**Learning Objectives**
Upon completion of this course, participants will be able to:

- Utilize new strategies to lower LDL cholesterol with high potency statins, ezetimibe, and PCSK9 inhibitors
- Implement options to manage advanced heart failure: pharmacological, mechanical circulatory support, and heart transplantation
- Undertake a comprehensive management approach to atrial fibrillation
- Integrate multimodality cardiovascular imaging: magnetic resonance, coronary CT, nuclear medicine, and echocardiography
- Recognize the latest advances in atrial fibrillation and ventricular tachycardia ablation in the EP lab
- Treat diabetes mellitus to reduce heart attack, stroke, and cardiovascular death
- Differentiate the latest nuances of five FDA-approved direct oral anticoagulants and distinguish among various strategies to reverse major bleeding
- Respond with a wide range of options as a member of a Pulmonary Embolism Response Team
- Overview contemporary cath lab interventions for STEMI and chronic totally occluded coronary arteries
- Synthesize indications, techniques, and outcomes of transcatheter aortic valve replacement and transcatheter mitral valve therapies
- Integrate clinical genetics into decision-making for a broad range of challenging patients
- Investigate suspected pulmonary hypertension; determine its etiology; and embark upon appropriate combination pharmacological therapy
- Assess and manage with confidence cold and blue fingers and toes

**Guest Faculty**

- **Nancy K. Sweitzer, MD, PhD**
  Professor of Medicine, University of Arizona; Director, UA Sarver Heart Center; Chief of the Division of Cardiology, University of Arizona
- **Gordon F. Tomaselli, MD**
  Dean, Albert Einstein College of Medicine

**Harvard Medical School Faculty**

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<td>Ron Blankstein, MD</td>
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<td>Eugene Braunwald, MD</td>
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<td>Enrico Caglieri, MD</td>
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<td>Umberto Campia, MD, MS</td>
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<td>David Charytian, MD, MSc</td>
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<td>Jean M. Connors, MD</td>
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<td>Kevin J. Croce, MD, PhD</td>
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<td>Akshay S. Desai, MD, MPH</td>
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<td>Marcelo F. DiCarli, MD</td>
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<td>Rodney H. Falk, MD</td>
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<td>Marie D. Gerhard-Herman, MD</td>
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<td>Michael M. Givertz, MD</td>
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<td>Samuel Z. Goldhaber, MD</td>
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<td>Rajat M. Gupta, MD</td>
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<td>Carolyn Y. Ho, MD</td>
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<td>Bruce Koplan, MD</td>
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<td>Raymond Y. Kwong, MD, MPH</td>
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<td>Neal K. Lakdawala, MD, MSc</td>
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<td>Eldrin F. Lewis, MD, MPH</td>
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<td>Joseph Loscalzo, MD, PhD</td>
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<td>Bradley A. Maron, MD</td>
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<td>David T. Martin, MD</td>
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<td>Mandeep R. Mehra, MD</td>
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<td>Samia Mora, MD</td>
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<td>David Morrow, MD</td>
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<td>Anju Nohria, MD</td>
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<td>Michelle L. O’Donoghue, MD, MPH</td>
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<td>Paul M Ridker, MD, MPH</td>
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<td>Marc S. Sabatine, MD, MPH</td>
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<td>Benjamin M. Scirica, MD</td>
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<td>Keri Shafer, MD</td>
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<td>Pinak B. Shah, MD</td>
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<td>Piotr Sobieszczyk, MD</td>
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<td>Scott D. Solomon, MD</td>
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<td>Yee-Ping Sun, MD</td>
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<td>Anne Marie Valente, MD</td>
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<td>Aaron B. Waxman, MD, PhD</td>
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<td>Justina C. Wu, MD, PhD</td>
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<td>Paul Zei, MD, PhD</td>
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**2019 Program Highlights**

State-of-the-art treatments and clinical practices for reducing stroke, heart attack, and cardiovascular death in patients with diabetes

- A comprehensive approach to managing atrial fibrillation, beyond rate and rhythm control
- Cardiovascular imaging tests: updates to select, use, and act upon the results of CT, magnetic resonance, and nuclear imaging
- Combination anticoagulation and antiplatelet therapy: new findings that impact the treatment of peripheral arterial disease
- Guidance to determine whether to use single, dual, or even triple therapy for treatment of coronary artery disease
- Best practices for the treatment of pulmonary hypertension with combination pharmacological therapy
- Education to navigate the differing nuances among the five FDA-approved direct oral anticoagulants
- New strategies to incorporate cardiovascular genetics into daily practice

Register at Cardiovascular.HMSCME.com
### Agenda

#### SUNDAY • APRIL 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 am</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>8:00 am</td>
<td>Welcome, Introductions, Course Objectives</td>
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<td></td>
<td>Samuel Z. Goldhaber, MD, Peter Libby, MD, and Patrick T. O’Gara, MD</td>
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<tr>
<td>8:15 am</td>
<td>NEW INSIGHTS INTO THE PATHOGENESIS OF ATHEROSCLEROSIS</td>
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<td>Peter Libby, MD</td>
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<td>8:55 am</td>
<td>CANTOS: EFFECT OF INTERLEUKIN-18 INHIBITION WITH CANAKINUMAB ON ATHEROSCLEROSIS AND LUNG CANCER</td>
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<td>Paul M Ridker, MD, MPH</td>
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<td>9:35 am</td>
<td>REDUCING TRIGLYCERIDE LEVELS TO REDUCE ADVERSE CARDIOVASCULAR OUTCOMES</td>
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<td>Aruna D. Pradhan, MD</td>
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<td>10:15 am</td>
<td>COFFEE BREAK (refreshments provided)</td>
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<td>10:35 am</td>
<td>STATINS, EZETIMIBE, AND PCSK9 INHIBITORS TO LOWER LDL CHOLESTEROL: HOW LOW CAN YOU GO?</td>
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<td>Jorge Plutzky, MD</td>
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**THOMAS W. SMITH, MD MEMORIAL LECTURE**

**Session Chair:** Peter Libby, MD

**11:15 am** Heart Failure with Preserved Ejection Fraction

Nancy K. Svetzer, MD, PhD

**12:10 pm** Break for lunch*

**ADVANCED HEART FAILURE**

**Session Chairs:** Akshay S. Desai, MD, MPH and Anju Nohria, MD

**1:10 pm** Ventricular Assist Devices and the Artificial Heart

Mandeep R. Mehra, MD

**1:50 pm** Cardiac Transplantation: Current and Future Perspectives

Michael M. Givertz, MD

**2:30 pm** Heart Failure with Reduced Ejection Fraction

Akshay S. Desai, MD, MPH

**3:10 pm** Health-Related Quality of Life Outcomes in Heart Failure

Eldrin F. Lewis, MD, MPH

**3:50 pm** Snack Break (refreshments provided)

**4:10 pm** Cardiac Amyloidosis: New Treatments, New Hope

Rodney H. Falk, MD

**4:50 pm** The Butter and Field of Cardio-Oncology

Anju Nohria, MD

**5:30 pm** Heart Failure in Adult Congenital Heart Disease: An Echocardiographic Montage

Keri Shafer, MD

**6:10 pm** ADJOURN DAY 1

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**MONDAY • APRIL 29**

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<tr>
<th>Time</th>
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<td>6:30 am</td>
<td>Continental Breakfast</td>
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**ATRIAL FIBRILLATION**

**Session Chairs:** Christine Albert, MD, MPH and Paul Zei, MD, PhD

**8:00 am** Epidemiology of Atrial Fibrillation: New Emphasis on Modification of Cardiovascular Risk Factors and New Concept of Atrial Fibrillation as a Systemic Cardiovascular Illness

Christine Albert, MD, MPH

**8:40 am** Atrial Fibrillation: Pharmacological Therapy and New Approaches to Ablation in the EP Lab

Paul Zei, MD, PhD

**9:20 am** Management of Atrial Fibrillation by the General Cardiologist: Lessons from Randomized and Observational Clinical Trials

David T. Martin, MD

**10:00 am** Coffee Break (refreshments provided)

**10:20 am** Is There a Role for Electronic Decision Support in the Management of Atrial Fibrillation and Other Cardiovascular Illnesses?

Gregory Piazza, MD, MS

**11:00 am** The Role of Clinical Genetics in Atrial Fibrillation as Part of a Comprehensive Management Approach: Focus on Hypertrophic Cardiomyopathy

Neal K. Lakdawala, MD, MSc

**MASTER MENTOR FEATURED LECTURE**

**11:40 am** Atrial Fibrillation and Coronary Artery Disease: A Perilous Combination

Deepak L. Bhatt, MD, MPH

**12:35 pm** Break for lunch*

**VALVULAR HEART DISEASE: DIAGNOSTIC, CATH LAB, AND SURGICAL APPROACHES**

**1:35 pm** Tricuspid Valve Disease

Dale S. Adler, MD

**2:15 pm** Mitral Valve Disease

Patrick T. O’Gara, MD

**2:55 pm** Aortic Valve Disease

Yee-Ping Sun, MD

**3:35 pm** Snack Break (refreshments provided)

**3:55 pm** Transcatheter Aortic Valve, Mitral Valve, and Tricuspid Valve Therapies

Pinak B. Shah, MD

**PULMONARY HYPERTENSION**

**4:35 pm** Idiopathic Pulmonary Hypertension: Definition, Diagnosis, and Epidemiology

Bradley A. Maron, MD

**5:15 pm** Idiopathic Pulmonary Hypertension: Combination Pharmacological Therapy—Rationale and Results

Aaron B. Waxman, MD, PhD

**5:55 pm** Chronic Thromboembolic Pulmonary Hypertension

Gregory Piazza, MD, MS

**6:35 pm** ADJOURN DAY 2

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*There are many convenient and varied lunch options within a short walking distance of the course.

Program changes/substitutions may be made without notice. To view the most up-to-date version of the course program, please visit the course website.
## Agenda

### TUESDAY • APRIL 30

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>6:30 am</td>
<td>Continental Breakfast</td>
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</table>
| 8:00 am | Management of Acute Coronary Syndromes  
Marc S. Sabatine, MD, MPH  
**New Approaches to STEMI in the Cardiac Cath Lab: Should Our Goal Be Complete Revascularization? What Are Our Options for Intravenous Antiplatelet Therapy?**  
Brian A. Bergmark, MD  
**Long-Term Antiplatelet Therapy for Coronary Artery Disease: Single, Dual, or Even Triple Therapy? How Intense? Optimal Duration?**  
Michelle L. O'Donoghue, MD, MPH  
10:00 am | Coffee Break (refreshments provided)  
12:30 pm | Luncheon  
**CORONARY ARTERY DISEASE: CHALLENGES AND CONCEPTUAL CHANGES**  
Session Chair: Michelle L. O'Donoghue, MD, MPH  
**Management of Acute Coronary Syndromes**  
Marc S. Sabatine, MD, MPH  
**New Approaches to STEMI in the Cardiac Cath Lab: Should Our Goal Be Complete Revascularization? What Are Our Options for Intravenous Antiplatelet Therapy?**  
Brian A. Bergmark, MD  
**Long-Term Antiplatelet Therapy for Coronary Artery Disease: Single, Dual, or Even Triple Therapy? How Intense? Optimal Duration? Should Aspirin Be the First Antiplatelet Agent That We Discontinue?**  
Michelle L. O'Donoghue, MD, MPH  
**Total Coronary Occlusion: The Last Frontier and Greatest Challenge for the Interventionalist in the Cath Lab**  
Kevin J. Croce, MD, PhD  
11:00 am | The Aspirin Perplex: Whom to Treat and What Dose to Use?  
Samia Mora, MD  
**KENNETH L. BAUGHMAN, MD MEMORIAL LECTURE**  
Session Chair: Patrick T. O’Gara, MD  
**Sudden Cardiac Death: Identifying Patients at High Risk, Optimizing Preventive Measures, and Managing Patients Who Are Successfully Resuscitated**  
Gordon F. Tomaselli, MD  
12:35 pm | Break for lunch  
12:35 pm | Break for lunch  
1:35 pm | DOACs: The Good, the Bad, and the Ugly  
Samuel Z. Goldhaber, MD  
2:15 pm | Management of Major Bleeding Complications in Anticoagulated Patients  
Jean M. Connors, MD  
2:55 pm | Snack Break and Transition to Breakout Sessions  

### BREAKOUT SESSIONS I, II, III

Program participants will have the opportunity to attend all three breakout sessions.

| Time  | Session I: Difficult Dilemmas That My Patients and I Have Confronted  
Patrick T. O’Gara, MD  
| Time  | Session II: Thrombophilia, Bleeding, and Clotting Cases  
Gregory Piazza, MD, MS  
| Time  | Session III: Vascular Medicine in the Office and Interventional Lab: Cases I’ll Never Forget  
Natalia C. Berry, MD  
4:00 pm | Transition  
4:10 pm | Session I: Difficult Dilemmas That My Patients and I Have Confronted  
Patrick T. O’Gara, MD  
| Time  | Session II: Thrombophilia, Bleeding, and Clotting Cases  
Gregory Piazza, MD, MS  
| Time  | Session III: Vascular Medicine in the Office and Interventional Lab: Cases I’ll Never Forget  
Natalia C. Berry, MD  
5:00 pm | Transition  
5:10 pm | Session I: Difficult Dilemmas That My Patients and I Have Confronted  
Patrick T. O’Gara, MD  
| Time  | Session II: Thrombophilia, Bleeding, and Clotting Cases  
Gregory Piazza, MD, MS  
| Time  | Session III: Vascular Medicine in the Office and Interventional Lab: Cases I’ll Never Forget  
Natalia C. Berry, MD  
6:00 pm | ADJOURN DAY 3  

### WEDNESDAY • MAY 1

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<tr>
<td>6:30 am</td>
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| 8:00 am | Pulmonary Embolism and DVT: Epidemiology, Pathophysiology, Misconceptions, and Management Overview  
Samuel Z. Goldhaber, MD  
**Pulmonary Embolism Response Teams: Optics and Options—Rolling Out a Coordinated Communications Strategy**  
Gregory Piazza, MD, MS  
9:20 am | Cold and Blue Fingers and Toes: Workup and Management  
Marie D. Gerhard-Herman, MD  
10:00 am | Peripheral Arterial Disease: Lessons from the COMPASS Trial and Implementation of Combination Anticoagulation and Antiplatelet Therapy  
Umberto Campia, MD, MS  
11:00 am | Quiz: Vascular Diagnostic Lab Cases  
Piotr Sobieszczyk, MD  
**FEATURED PRESENTATION: JOSEPH LOSCALZO, MD, PhD**  
Session Chair: Samuel Z. Goldhaber, MD  
11:40 am | Case Discussion: From Bedside to Bench  
Joseph Loscalzo, MD, PhD  
12:35 pm | Break for lunch  

### ELECTROPHYSIOLOGY

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<thead>
<tr>
<th>Time</th>
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| 1:35 pm | Ventricular Tachycardia “Storm” and Other EP Emergencies: A Case-Based Approach to Management, including Ventricular Tachycardia Ablation  
Usha Tedrow, MD, MS  
2:15 pm | Rapid-Fire Case-Based Arrhythmia Quiz  
Bruce Koplan, MD  
**MULTIMODALITY CARDIOVASCULAR IMAGING AND STRESS TESTING**  
Session Chair: Justina C. Wu, MD, PhD and Marcelo F. DiCarli, MD  
2:55 pm | How to Select, Use, and Integrate the Results of Cardiovascular Imaging Tests: CT, Magnetic Resonance, and Nuclear Imaging  
Ron Blankstein, MD  
3:35 pm | Snack Break (refreshments provided)  
3:55 pm | Challenges and Advances in Transthoracic and Transesophageal Echocardiography  
Justina C. Wu, MD, PhD  
4:35 pm | How to Choose the Best Stress Test: Exercise Treadmill, Exercise Bicycle, Exercise ECHO, Nuclear, or Magnetic Resonance  
Marcelo F. DiCarli, MD  
5:15 pm | Cardiac Magnetic Resonance Imaging: Sarcoid, Amyloid, Pericardial Inflammation, Hemochromatosis, and Other Cardiac Infiltrative Diseases  
Raymond Y. Kwong, MD, MPH  
5:55 pm | Cardiopulmonary Exercise Testing: Indications, Noninvasive, and Invasive  
Bradley A. Maron, MD  
6:35 pm | ADJOURN DAY 4  

### EUROPEAN ACCREDITATION

Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert AMA PRA Category 1 Credits™ to an equivalent number of European CME Credits® (ECMECs®). Information on the process of converting AMA PRA Category 1 Credits™ to ECMECs® can be found at: www.eacme.eu.
**Agenda**

**THURSDAY • MAY 2**

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<tr>
<td>6:30 am</td>
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<tr>
<td>8:00 am</td>
<td><strong>CRITICAL CARE CARDIOLOGY</strong> Session Chair: Samuel Z. Goldhaber, MD</td>
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<tr>
<td>8:40 am</td>
<td><strong>GENETICS: RELEVANCE TO DAILY CLINICAL PRACTICE</strong> Session Chair: Carolyn Y. Ho, MD</td>
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<tr>
<td>9:20 am</td>
<td><strong>FEATURED PRESENTATION: EUGENE BRAUNWALD, MD</strong> Session Chair: Samuel Z. Goldhaber, MD</td>
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<tr>
<td>11:40 am</td>
<td><strong>HEART DISEASE: PAST, PRESENT, AND FUTURE</strong> Eugene Braunwald, MD</td>
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<td>2:55 pm</td>
<td><strong>DIABETES AND CARDIOVASCULAR DISEASE: ENGAGING THE CLINICAL CARDIOLOGIST</strong> Session Chairs: Benjamin M. Scirica, MD and Jorge Plutzky, MD</td>
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<tr>
<td>4:15 pm</td>
<td><strong>CARDIOVASCULAR MANAGEMENT OF COMPLICATED PREGNANCY</strong> Session Chair: Samuel Z. Goldhaber, MD</td>
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<td>6:30 am</td>
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**Now offering ABIM MOC Points**

American Board of Internal Medicine

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 42.00 Medical Knowledge MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

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**Cardiovascular Medicine 2019**

(Course #732555-1902)

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<th>Register after February 28, 2019</th>
<th>Register on or before February 28, 2019</th>
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<td>Physicians</td>
<td>$1,595</td>
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<tr>
<td>Allied Health Professionals</td>
<td>$1,495</td>
<td>$1,395 (SAVE $100)</td>
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<td>Fellows, Residents, and Students</td>
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Your tuition includes continental breakfast, morning and afternoon coffee breaks, and complimentary internet in the meeting room.

All attendees of Cardiovascular Medicine 2019 will receive a printed syllabus.

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**Registration, Payment, Confirmation and Refund Policy**

Registrations for Harvard Medical School CME programs are made via our secure online registration system. To register for this course, please visit the course website at Cardiovascular.HMSCME.com.

At the end of the registration process, a $10 non-refundable processing fee will be added to your registration, and you will have the choice of paying by check, credit card (Visa, MasterCard, or American Express), or wire transfer in USD. If you are paying by check (draft on a United States bank) or by wire transfer, the online registration system will provide you with instructions for remitting your course fees. Postal, telephone, fax, and cash-payment registrations are not accepted. All fees shown in USD.

Upon receipt of your paid registration, an email confirmation will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate. Refunds, less an administrative fee of $75, will be issued for all cancellations received two weeks prior to the start of the course. Refund requests must be received by email. No refund will be issued should cancellation occur less than two weeks prior. “No shows” are subject to the full course fee and no refunds will be issued once the conference has started.

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**VENUE**

Fairmont Copley Plaza

138 St. James Avenue

Boston, Massachusetts

617-267-5300

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**ACCOMMODATIONS**

A limited number of rooms have been reserved at Fairmont Copley Plaza until April 5, 2019. You can call the hotel reservation line to make a room reservation: 1-800-441-1414. Please specify that you are enrolled in this CME activity in order to request the reduced room rate. You can also make a room reservation during the conference at Cardiovascular.HMSCME.com and clicking on the dedicated room reservation link on the Venue page.

*The course room block, which is offered at special rates, does fill up quickly, so making your room reservations early is encouraged.*

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**INQUIRIES**

Call 617-384-8600 Mon-Fri 9am – 5pm EST. Send e-mail to CEPrograms@hms.harvard.edu.