Update in Clinical CARDIOLOGY

OCTOBER 11 – 13, 2017 BOSTON, MA

Under the direction of
Adolph M. Hutter, Jr., MD
Anthony Rosenzweig, MD
Rory B. Weiner, MD

Earn up to 22.75 AMA PRA Category 1 Credits™

Evaluation
Treatment
Patient Care
Procedures
Challenging Cases

Comprehensive updates, strategies, and practice recommendations to optimize patient care and outcomes

Coronary Artery Disease
Acute Coronary Syndromes
Biomarkers
Valvular Heart Disease
Congestive Heart Failure
Dyslipidemia
Atrial Fibrillation
Ventricular Arrhythmias
Advanced Cardiac Imaging
Cardiovascular Disease in the Athlete
Thoracic Aortic Disease
Adult Congenital Heart Disease
Heart Disease in Pregnancy
Cardio-Oncology
Peripheral Arterial Disease
Pulmonary Embolism

Education for PHYSICIANS, NPs, PAs from the following specialties:
- Cardiology
- Vascular Medicine
- Critical Care and Trauma
- Emergency Medicine
- Internal Medicine
- Family Medicine
- Geriatrics

Register at Cardiology.HMSCME.com
Course Description
There is a persistent gap between the practice of cardiology and the guideline-recommended evaluation and therapy. In a time of continually changing information based on ongoing new research findings, the practicing clinician has a hard time maintaining an up-to-date knowledge base and, therefore, competency in these areas. As a result, the performance of the clinician frequently lags behind state-of-the-art practices. This course addresses this gap by providing an extensive review of clinical cardiology through didactic lectures, panel discussions, and cases emphasizing newer concepts of diagnosis, decision making, pharmacology and therapy in the areas of ischemic heart disease, valvular heart disease, cardiac arrhythmias, congestive heart failure and other more specific areas.

Harvard Medical School Faculty

The faculty is assembled from the best clinician-educators at Harvard Medical School and Massachusetts General Hospital and is designed to deliver the highest quality educational experience:

- Teaching practical, effective clinical reasoning and approaches that enable you to practice state-of-the-art clinical cardiology
- Allowing ample time for participants to interact with faculty and to pose and get answers to your specific questions
- Providing the latest information in an engaging manner and clinically usable context so that you have knowledge you can “take home” and immediately apply to patient care

Course Directors

Adolph M. Hutter, Jr., MD, Professor of Medicine, Harvard Medical School; Founding Director, Cardiac Performance Program, Corrigan Minehan Heart Center, Massachusetts General Hospital

Anthony Rosenzweig, MD, Paul Dudley White Professor of Medicine, Harvard Medical School; Chief of Cardiology, and Co-Director, Corrigan Minehan Heart Center, Massachusetts General Hospital

Rory B. Weiner, MD, Assistant Professor of Medicine, Harvard Medical School; Inpatient Medical Director, Corrigan Minehan Heart Center, Massachusetts General Hospital
Dear Colleague,

The strategies we employ and the options at our disposal to diagnose and treat patients with cardiovascular disease have advanced considerably in the past year. Update in Clinical Cardiology ensures attendees are current with these advances and how to incorporate them into daily practice to optimize patient outcomes.

The 2017 program offers you the opportunity to learn:

- Important medical and procedural advances for the management of common clinical problems such as coronary artery disease, heart failure, and valvular heart disease
- The latest transcatheter options and best practices to treat patients with severe valvular disease
- The new paradigms for care of specialized populations such as adults with congenital heart disease, cardiac patients with cancer, and athletic individuals
- The latest concepts of diagnosis, decision making, pharmacology and therapy in the areas of ischemic heart disease, cardiac arrhythmias, and congestive heart failure

The faculty is assembled from the best clinician-educators at Harvard Medical School and Massachusetts General Hospital. Designed to deliver the highest quality educational experience, we place a premium on:

- Teaching practical, effective clinical reasoning and approaches that enable you to practice state-of-the-art clinical cardiology
- Allowing ample time for participants to interact with faculty and to pose and get answers to your specific questions
- Providing the latest information in an engaging manner and clinically usable context so that you have knowledge you can “take home” and immediately apply to patient care

As cardiologists and cardiovascular clinicians, we face the task of treating patients across the wide spectrum of cardiac disease. Our goal is to ensure that you are up to date with the latest information to diagnose and treat your patients in the best manner possible. We look forward to your participation. Boston in the fall is delightful, and we hope to see you then!

Sincerely,

Adolph M. Hutter, Jr., MD  
Course Director

Anthony Rosenzweig, MD  
Course Director

Rory B. Weiner, MD  
Course Director
Upon completion of this activity, participants will be able to:

- Apply newly acquired knowledge of cardiovascular disease in the care of cardiac patients
- Incorporate the principles of proper evaluation for cardiovascular disease into practice
- Determine the goals to be achieved in the care of cardiovascular patients and implement tools to achieve these goals
- Appropriately use diagnostic and therapeutic tools to treat patients with cardiovascular disease

**Participant Experience**

"The speakers were simply outstanding along with the appropriate level at which they taught; seeing their own mutual respect for each other and their profession was most inspiring."

"Update in Clinical Cardiology was an excellent course given by physicians dedicated to their specialty and truly experts in their field."

"The degree of evidence-based practice and recent research discussed and incorporated into recommendations was exceptional."

"It is always a great pleasure to see physicians who actually see patients and have clinical experience and recognize evidence rather than merely following guidelines."

"I rely on this course for my yearly update for the ‘best practice’ of current/contemporary clinical cardiology."

"Cutting-edge information was presented in every lecture."

"The clinically useful knowledge presented in this course, especially concerning syncope, cardiac markers, PE, AF and the NOACs, and cardiac oncology, was truly exceptional."

"The research on exercise and the heart and RNA as well as the cardio-oncology information was cutting edge."

"The course was very comprehensive, with an outstanding faculty, and ample opportunity to ask questions and speak one-on-one with presenters."

"This program has updated my management of pulmonary HTN, PE and Coronary Artery Disease, as well as evaluation and management of syncope in the ER."
### Wednesday, October 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>7:00 - 7:45</td>
<td>Registration</td>
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<tr>
<td>7:45 - 8:00</td>
<td>Introduction Adolph M. Hutter, Jr., MD</td>
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<td>Moderator: Adolph M. Hutter, Jr., MD All sessions include 10 minutes of Q&amp;A</td>
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<tr>
<td>8:00 - 8:50</td>
<td>Clinical Advances for Improved Evaluation of Coronary Artery Disease</td>
<td>Adolph M. Hutter, Jr., MD</td>
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<tr>
<td>8:50 - 9:40</td>
<td>Pulmonary Embolism: Pathophysiology and Management Updates</td>
<td>Samuel Z. Goldhaber, MD</td>
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<tr>
<td>9:40 - 10:00</td>
<td>Morning Break (refreshments provided)</td>
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<tr>
<td>10:00 - 10:50</td>
<td>Acute Coronary Syndromes: STEMI and NSTEMI—Latest Data</td>
<td>James L. Januzzi, MD</td>
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<tr>
<td>10:50 - 11:40</td>
<td>What’s New in Cardiac Markers</td>
<td>James L. Januzzi, MD</td>
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<tr>
<td>11:40 - 12:30</td>
<td>Mitral Regurgitation: Timing of Intervention and Choice between Surgery</td>
<td>Eric M. Isselbacher, MD</td>
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<tr>
<td>12:30 - 1:30</td>
<td>Lunch break</td>
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<td>Moderator: Rory B. Weiner, MD All sessions include 10 minutes of Q&amp;A</td>
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<tr>
<td>1:30 - 2:20</td>
<td>Aortic Stenosis: Timing of Intervention and Choice between Surgery</td>
<td>Jonathan J. Passeri, MD</td>
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<td>2:20 - 3:10</td>
<td>The New Medical Therapies for Heart Failure</td>
<td>G. William Dec, MD</td>
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<tr>
<td>3:10 - 3:25</td>
<td>Afternoon Break (refreshments provided)</td>
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<tr>
<td>3:25 - 4:10</td>
<td>Advanced Heart Failure and Mechanical Therapy: How to Minimize Hospital</td>
<td>Sunu S. Thomas, MD</td>
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<tr>
<td>4:10 - 5:00</td>
<td>Cardio-Oncology in 2017</td>
<td>Tomas G. Neilan, MD, MPH, MRCPI</td>
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### Thursday, October 12

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:00 - 8:50</td>
<td>Incorporating Advances in Electrical Therapy in Heart Failure for Improved Patient Outcomes</td>
<td>Jagmeet P. Singh, MD, PhD</td>
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<tr>
<td>8:50 - 9:40</td>
<td>Atrial Fibrillation: Pharmacologic and Nonpharmacologic Therapy</td>
<td>Jeremy N. Ruskin, MD</td>
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<td>9:40 - 10:00</td>
<td>Morning Break (refreshments provided)</td>
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<tr>
<td>10:00 - 10:50</td>
<td>Syncope: Clinical Strategies for Evaluation and Treatment</td>
<td>Jeremy N. Ruskin, MD</td>
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<tr>
<td>10:50 - 11:40</td>
<td>Clinical Trials for Ventricular Arrhythmias</td>
<td>E. Kevin Heist, MD</td>
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<td>11:40 - 12:30</td>
<td>Stroke Prevention in Atrial Fibrillation</td>
<td>E. Kevin Heist, MD</td>
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<tr>
<td>12:30 - 1:30</td>
<td>Lunch break</td>
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<tr>
<td>1:30 - 2:20</td>
<td>Supraventricular Tachycardia: Updates for Diagnosis and Treatment</td>
<td>Theoafanie Mela, MD</td>
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<td>2:20 - 3:10</td>
<td>Thoracic Aortic Disease</td>
<td>Eric M. Isselbacher, MD</td>
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<tr>
<td>3:10 - 3:25</td>
<td>Afternoon Break (refreshments provided)</td>
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<tr>
<td>3:25 - 4:10</td>
<td>Dyslipidemia: Latest Concepts</td>
<td>Mason W. Freeman, MD</td>
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<td>4:10 - 5:00</td>
<td>CTA &amp; MRI in Cardiac Disease</td>
<td>Brian Ghoshhajra, MD, MBA</td>
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**Disclosure Policy**

Harvard Medical School (HMS) adheres to all ACCME Accreditation Criteria and Policies. It is HMS’s policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.
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<tr>
<th>Time</th>
<th>Session</th>
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| 8:00 - 8:50   | Exercise-Induced Cardiac Remodeling: What Is Normal?  
|               | Aaron L. Baggish, MD                                                     |
| 8:50 - 9:40   | How Exercise Protects the Heart: What the Latest Data Tell Us  
|               | Anthony Rosenzweig, MD                                                  |
| 9:40 - 10:00  | Morning Break (refreshments provided)                                    |
| 10:00 - 10:50 | Updates to Evaluate and Treat Adult Congenital Heart Disease  
|               | Ami B. Bhatt, MD                                                        |
| 10:50 - 11:40 | Heart Disease in Pregnancy: Early Detection through Safe Delivery  
|               | Nandita S. Scott, MD                                                   |
| 11:40 - 12:30 | Coronary Disease: Medicate/Dilate/Operate  
|               | Farouc A. Jaffer, MD, PhD                                               |
| 12:30 - 1:30  | Lunch break                                                             |

Moderator: Rory B. Weiner, MD  
All sessions include 10 minutes of Q&A

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<tbody>
<tr>
<td>1:30 - 2:20</td>
<td>Dual Antiplatelet Therapy</td>
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| 2:20 - 3:10   | Pitfalls in Echocardiography: How to Recognize and Avoid  
|               | Rory B. Weiner, MD                                                      |
| 3:10 - 3:25   | Afternoon Break (refreshments provided)                                  |
| 3:25 - 4:10   | Management of Peripheral Arterial Disease in 2017  
|               | Douglas E. Drachman, MD                                                 |
| 4:10 - 5:00   | Indispensable Clinical Pearls: Filling In the Gaps  
|               | Adolph M. Hutter, Jr., MD and Rory B. Weiner, MD                        |

Moderator: Adolph M. Hutter, Jr., MD  
All sessions include 10 minutes of Q&A

Reasons to Attend

Updated guidelines for evaluation and care of patients with coronary artery disease, congestive heart failure and arrhythmias.

Improved management of cardiac patients with cancer and adult congenital heart disease.

Expanded options to diagnose coronary artery disease, valvular heart disease, cardiomyopathy and arrhythmias.

Improved management of pulmonary embolism and peripheral arterial disease.

Best practices for care of pregnant or athletic patients with heart disease.

Clinical application of recent scientific information to patient care.

ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION
The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 22.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CANADIAN ACCREDITATION
The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

EUROPEAN ACCREDITATION
Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert AMA PRA Category 1 Credit™ 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.eaccme.eu.
### Update in Clinical Cardiology 2017

<table>
<thead>
<tr>
<th>Course #732120-1801</th>
<th>Tuition</th>
<th>Register on or before September 15, 2017</th>
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<tbody>
<tr>
<td>Physicians</td>
<td>$945</td>
<td>$845 (SAVE $100)</td>
</tr>
<tr>
<td>Allied Health Professionals</td>
<td>$795</td>
<td>$695 (SAVE $100)</td>
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<tr>
<td>Residents, Fellows and Trainees</td>
<td>$650</td>
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</table>

Your tuition includes juice and coffee each morning, and morning and afternoon refreshment breaks. All course participants receive a flash drive that contains all of the course materials. You can purchase a printed copy of these materials at the time of online registration for $50.

### 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 Cardiology.HMSCME.com.

At the end of the registration process, a $5 non-refundable processing fee will be added to your registration, and you will have the choice of paying by check or credit card (Visa, MasterCard, or American Express). If you are paying by check (draft on a United States bank), the online registration system will provide you with instructions and a printable form for remitting your course fees by check. Postal, telephone, fax, and cash-payment registrations are not accepted. All fees shown in USD.

Upon receipt of your paid registration, an email confirmation from the HMS GCE office 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.

### Venue

**Fairmont Copley Plaza**  
138 St. James Avenue  
Boston, Massachusetts  
1-617-267-5300

### Accommodations

A limited number of rooms have been reserved at Fairmont Copley Plaza. Please make your reservation at your earliest convenience—however, no later than September 19, 2017—by visiting the course website and clicking on the dedicated link on the Venue page. If you need to make your reservation by telephone, please call 1-800-441-1414 by September 19 and specify that you are enrolled in this course to receive the reduced room rate.

Please do not make nonrefundable travel arrangements until you have received an email from our office confirming your paid registration.

### Questions?

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