Thrombosis and Thromboembolism

October 18–19, 2018 | Boston MA

Under the direction of Samuel Z. Goldhaber, MD and Paul M Ridker, MD, MPH

Guidance and state-of-the-art approaches to:

- Acute coronary syndromes
- Anti-inflammatory therapy to reduce risk of cardiovascular death and stroke (CANTOS trial)
- Pulmonary embolism and DVT
- LDL and triglyceride reduction
- Stroke prevention in atrial fibrillation
- Genetics, thrombosis, and personalized medicine

Earn up to 16.00 AMA PRA Category 1 Credits™ • 16.00 ABIM MOC points (NEW) • 16.00 AAFP Prescribed credits

Register at Thrombosis.HMSCME.com
Dear Colleague:

Our understanding of thrombosis and thromboembolism has evolved rapidly. Advances in prevention, diagnosis, management, epidemiology, and pathophysiology will improve our clinical practice and yield more favorable patient outcomes.

Since 1997, the two-day Harvard Medical School CME course, *Thrombosis and Thromboembolism*, has been providing practical and timely education about these innovations in the field. Our upcoming 2018 curriculum promises to be the best in this program’s 21-year history, with master clinicians updating and guiding us so we can integrate these changes into our daily practice.

This once-every-3-years course provides an opportunity to quickly, efficiently, and effectively ensure we are current with the state of the art for:

- The etiology and pathophysiology of atherothrombosis
- Understanding of the link between inflammation and thrombotic illnesses
- Dual therapy with low-dose anticoagulation and aspirin
- Stroke prevention (and stroke prediction) in atrial fibrillation
- Caring for patients who have or are at risk for deep vein thrombosis and pulmonary embolism — this is a comprehensive look, from every angle
- The most exciting new predictive, diagnostic and treatment options, including genetics, personalized medicine, and lipid biology
- The nuances of prescribing dual antiplatelet therapy, including optimal duration and ways to minimize bleeding complications

The 2018 course offers new and returning attendees a fast-paced, intellectually invigorating learning experience and a forum in which new professional friendships will take root with faculty and colleagues who share common interests. We have had the privilege of co-directing this course from its inception, and count ourselves among the many professionals who have been enriched by the knowledge-sharing and networking opportunities that this special program offers. We hope you will attend, and we look forward to welcoming you in person to this special Boston event.

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

Paul M Ridker, MD, MPH
Course Director
Eugene Braunwald Professor of Medicine
Harvard Medical School
Senior Physician
Brigham and Women’s Hospital
Harvard Medical School Faculty

Deepak L. Bhatt, MD, MPH
Professor of Medicine
Eugene Braunwald, MD
Hersey Professor of Medicine
Umberto Campia, MD
Harvard Medical School Faculty
Jean Connors, MD
Assistant Professor of Medicine
Samuel Z. Goldhaber, MD
Professor of Medicine
Sekar Kathiresan, MD
Associate Professor of Medicine
Peter Libby, MD
Mallinkrodt Professor of Medicine
Calum A. MacRae, MD, PhD
Associate Professor of Medicine
Gregory Piazza, MD, MS
Assistant Professor of Medicine
Aruna Pradhan, MD
Assistant Professor of Medicine
Paul M Ridker, MD, MPH
Eugene Braunwald Professor of Medicine
Christian T. Ruff, MD, MPH
Assistant Professor of Medicine
Marc Sabatine, MD, MPH
Professor of Medicine

Featured Guest Speakers

Sonia Anand, MD, PhD
Professor, Division of Cardiology, Department of Medicine, McMaster University
Henri Bounameaux, MD
Dean of the Faculty of Medicine, University of Geneva
John Fanikos, RPh, MBA
Director of Pharmacy, Brigham and Women’s Hospital
Jessica Rimsans, PharmD
Pharmacist, Brigham and Women’s Hospital
John Eikelboom, MD
Associate Professor, Department of Medicine, McMaster University

Course Directors

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Senior Physician, Brigham and Women’s Hospital

Now offering ABIM MOC Points

Accreditation

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

The Harvard Medical School designates this live activity for a maximum of 16.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOC STATEMENT
Successful completion of this CME activity enables the participant to earn up to 16.00 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.

AMERICAN ACADEMY OF FAMILY PHYSICIANS
This Live activity, Thrombosis and Thromboembolism 2018, with a beginning date of 10/18/2018, has been reviewed and is acceptable for up to 16.00 Prescribed credit(s) by the American Academy of Family Physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSE PRACTITIONERS and REGISTERED NURSES
For the purpose of recertification, the American Academy of Nurse Practitioners Certification Board and American Nurses Credentialing Center accept AMA PRA Category 1 Credit™ issued by organizations accredited by the ACCME (Accreditation Council for Continuing Medical Education). We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with AMA PRA Category 1 Credit™ for re-licensure.

PHYSICIAN ASSISTANTS
The National Commission on Certification of Physician Assistants (NCCPA) states that AMA PRA Category 1 Credits™ are acceptable for continuing medical education requirements for recertification. We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with AMA PRA Category 1 Credit™ for re-licensure.

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.
Agenda

Reasons to Attend

You will get timely and important updates for:

- DVT/PE diagnosis, testing, parenteral and oral anticoagulants
- Atherothrombosis: etiology, pathophysiology, therapy
- Anti-inflammatory therapy to reduce risk of cardiovascular events
- Hypercoagulability: testing and management
- Pharmacomechanical catheter-directed therapy
- New approaches to treat high LDL cholesterol and hypertriglyceridemia
- Dual antiplatelet therapy: dose, duration, reversibility
- Stroke prevention in atrial fibrillation
- Special considerations for VTE in cancer and pregnancy

Who Should Attend

PHYSICIANS, NPs, PAs, SURGEONS, PHARMACISTS and RESEARCHERS who work in the following fields of medicine and care for patients with or at risk for thromboses in the venous and arterial systems:

- Hematology
- Cardiovascular Medicine
- Critical Care Medicine
- Hospital Medicine
- Oncology
- Vascular Medicine
- Pulmonary Medicine
- Family Medicine
- Internal Medicine
- Obstetrics
- Primary Care Medicine

Course Description

Thrombosis and Thromboembolism provides a comprehensive review of the most important changes and advances impacting the care of patients who have—or are at risk for—these afflictions. Updates in diagnosis, treatment and prevention are provided by world-renowned experts and Harvard Medical School’s leading clinical faculty.

Thrombosis and Thromboembolism has provided practical and timely education about innovations in this field since 1997. First-time and returning attendees consistently report that the knowledge they acquire from this update changes their practice and drives better outcomes for patients.

In 2018, participants will learn cutting-edge new advances in preventing VTE in medically ill patients; how dual anti-platelet therapy can prevent MI, stroke, and leg amputation; improved stroke prediction and prevention; and a better understanding of the link between inflammation and thrombotic illnesses.

This acclaimed course, offered only once every three years, is intended for all general internists and cardiovascular, peripheral vascular, critical care, pulmonary, surgical, and hematologic specialists who are called upon to care for patients with thromboses in the venous and arterial systems. The course will be interactive with time set aside for active discussion with faculty.

Learning Objectives

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

- Describe how low-dose anticoagulation and low-dose aspirin prevent MI, stroke, leg amputation
- Apply new strategies to prevent DVT/PE in hospitalized patients and in the month following hospital discharge
- Identify the optimal duration of anticoagulation for PE and DVT
- Provide advanced therapy beyond anticoagulation in PE and DVT: thrombolysis, catheter-directed therapy, surgical embolectomy
- Identify the etiology and pathophysiology of atherothrombosis
- Recognize the link between inflammation and thrombotic illnesses
- Explain new tools for stroke prevention (and stroke prediction) in atrial fibrillation
### Thursday, October 18

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:45am</td>
<td>Registration and Breakfast</td>
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<tr>
<td>7:45am</td>
<td>Seating</td>
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<tr>
<td>8:00am</td>
<td>Welcome and Course Objectives Samuel Z. Goldhaber, MD and Paul M Ridker, MD</td>
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#### ARTERIAL THROMBOSIS

Co-Chairs: Paul M Ridker, MD, MPH and Peter Libby, MD  
(All sessions include 10 minutes of Q&A and discussion)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:15am</td>
<td>Atherosclerosis: Biology and Pathophysiology Peter Libby, MD</td>
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<tr>
<td>8:45am</td>
<td>Aggressive Lipid Reduction to Minimize Cardiovascular Risk: Focus on PCSK9 Inhibitors Marc Sabatine, MD, MPH</td>
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<tr>
<td>9:15am</td>
<td>Anti-inflammatory Therapy to Reduce Risk of Cardiovascular Events and Lung Cancer: CANTOS and Canakinumab Paul M Ridker, MD, MPH</td>
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<td>10:05am</td>
<td>Reduction of Cardiovascular Events by Decreasing Triglyceride Risk: The PROMINENT Trial Aruna Pradhan, MD</td>
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<td>10:35am</td>
<td>Combined Antithrombotic and Antiplatelet Therapy to Reduce Cardiovascular Risk: COMPASS Trial, Part I John Eikelboom, MD</td>
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<tr>
<td>11:15am</td>
<td>Anti-inflammatory Therapy to Reduce Risk of Cardiovascular Events and Lung Cancer: CANTOS and Canakinumab Paul M Ridker, MD, MPH</td>
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<tr>
<td>11:35am</td>
<td>Combined Antithrombotic and Antiplatelet Therapy to Reduce Lower Extremity Arterial Disease: COMPASS Trial, Part II Sonia Anand, MD</td>
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<td>12:15pm</td>
<td>Peripheral Arterial Disease and Thrombotic Risk: Ongoing and Future Trials Umberto Campia, MD</td>
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<tr>
<td>12:35pm</td>
<td>Link Between Arterial and Venous Thrombosis Samuel Z. Goldhaber, MD</td>
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<tr>
<td>1:15pm</td>
<td>Break for lunch*</td>
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#### VENOUS THROMBOSIS

Co-Chairs: Gregory Piazza, MD, MS and Samuel Z. Goldhaber, MD  
(All sessions include 10 minutes of Q&A and discussion)

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:15pm</td>
<td>Diagnosis of VTE: Clinical Assessment, D-dimer Testing, and Optimal Strategy for Imaging Henri Bounamaux, MD</td>
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<tr>
<td>2:55pm</td>
<td>Overview of PE: Epidemiology and Pathophysiology Samuel Z. Goldhaber, MD</td>
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<tr>
<td>3:30pm</td>
<td>Anticoagulants for VTE: Focus on DOACs — Ongoing Challenges and Dilemmas Samuel Z. Goldhaber, MD</td>
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<tr>
<td>4:05pm</td>
<td>Advanced Therapy: Beyond Anticoagulation Gregory Piazza, MD, MS</td>
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<td>4:45pm</td>
<td>Inferior Vena Cava Filters: The Good, the Bad, and the Ugly Henri Bounamaux, MD</td>
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<tr>
<td>5:15pm</td>
<td>Break</td>
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#### ONE BRAVE IDEA: DINNER LECTURE

Chair: Samuel Z. Goldhaber, MD

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<tr>
<td>6:15pm</td>
<td>Seating</td>
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<tr>
<td>6:30pm</td>
<td>One Brave Idea Calum A. MacRae, MD, PhD</td>
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<tr>
<td>7:00pm</td>
<td>Dinner</td>
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<td>8:30pm</td>
<td>Daily Program Concludes</td>
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Dinner Speaker: Calum A. MacRae, MD, PhD  
Dr. MacRae is the recipient of the American Heart Association’s $75 million One Brave Idea award to understand the earliest stages of coronary heart disease. He is also the Vice Chair of Innovation at the Brigham and Women’s Hospital (BWH), a leading investigator at the BWH Genomics Center, a principal faculty member at the Cardiovascular Research Center and the Harvard Stem Cell Institute, and an associate member at the Broad Institute.

Register at Thrombosis.HMSCME.com
Friday, October 19

7:00am  Breakfast
7:45am  Seating

**THROMBOSIS PHARMACOLOGY**
Co-Chairs: Samuel Z. Goldhaber, MD and Paul M Ridker, MD, MPH
(All sessions include 10 minutes of Q&A and discussion)

8:00am  DOAC Reversibility: Idarucizumab and Andexanet  
Jean Connors, MD

8:30am  Cancer and VTE: Beyond Low Molecular Weight Heparin Monotherapy  
Jean Connors, MD

9:00am  Heparin-Induced Thrombocytopenia  
Jessica Rimsans, PharmD

9:30am  Adherence to Thrombosis Medications: Problems with Polypharmacy and Promising Solutions  
John Fanikos, RPh, MBA

10:00am  Genetics 2018: What Every Clinician Should Know  
Sekar Kathiresan, MD

10:30am  Coffee break (Refreshments provided)

**ATRIAL FIBRILLATION AND ANTIPLATELET THERAPY**
Co-Chairs: Deepak L. Bhatt, MD, MPH and Christian T. Ruff, MD, MPH
(All sessions include 10 minutes of Q&A and discussion)

11:40am  Mortality Reduction and Stroke Prevention in Atrial Fibrillation:  
Emergence of Biomarkers for Risk Stratification  
Christian T. Ruff, MD, MPH

12:20pm  Single and Dual Antiplatelet Therapy  
John Eikelboom, MD

12:50pm  Is Triple Therapy with Warfarin Dead?  
Deepak L. Bhatt, MD, MPH

1:20pm  Break for lunch*

**DIABETES, HYPERCOAGULABILITY, AND VTE PREVENTION**
Co-Chairs: Gregory Piazza, MD, MS and Samuel Z. Goldhaber, MD
(All sessions include 10 minutes of Q&A and discussion)

2:30pm  Reducing Cardiovascular Thrombotic Events with Contemporary Pharmacologic Therapy for Diabetes Mellitus  
Deepak L. Bhatt, MD, MPH

3:10pm  Hypercoagulability Testing: When, Who, and Why  
Jean Connors, MD

3:50pm  VTE: Fertility and Pregnancy  
Gregory Piazza, MD, MS

4:30pm  VTE Prevention: Meeting the Critical Gap in Prophylaxis During the First Month after Hospitalization  
Samuel Z. Goldhaber, MD

5:10pm  Closing Remarks and Adjournment

*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.

This program is among the highest-rated Harvard Medical School CME courses. It is offered once every three years. To be assured a place in the 2018 program, early registration is strongly advised.

Register at Thrombosis.HMSCME.com
This program is among the highest-rated Harvard Medical School CME courses.

Timely and important updates for PHYSICIANS, NPs, PAs

- Low-dose anticoagulation and low-dose aspirin to prevent MI, stroke, leg amputation (COMPASS trial)
- DVT/PE: prevention in hospitalized patients and in the month following hospital discharge (APEX trial)
- Dual antiplatelet therapy: dose, duration, reversibility
- Optimal duration of anticoagulation for PE and DVT (EINSTEIN CHOICE)
- Advanced therapy beyond anticoagulation in PE and DVT: thrombolysis, catheter-directed therapy, surgical embolectomy
- Heparin-induced thrombocytopenia

Register at Thrombosis.HMSCME.com
Accommodations
A limited number of discounted rooms have been reserved at Fairmont Copley Plaza until September 27, 2018. You can call the hotel reservation line to make a room reservation: 1-800-441-1414. Please specify that you are enrolled in this activity in order to request the reduced room rate. You can also make your discounted reservation online by September 27, 2018 by visiting the course website and clicking on the dedicated 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.

Please do not make non-refundable travel arrangements until you have received an email from the HMS GCE office confirming your paid registration.

Questions? Call 617-384-8600 Monday-Friday 9am – 5pm (ET) or send email to CEPrograms@hms.harvard.edu

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