



HARVARD MEDICAL SCHOOL

DEPARTMENT OF CONTINUING EDUCATION

THROMBOSIS AND THROMBOEMBOLISM: NEW STRATEGIES FOR IMPROVED PATIENT CARE

OCTOBER 12-13, 2006

Presented by
CARDIOVASCULAR DIVISION, BRIGHAM AND WOMEN'S HOSPITAL

at the
Fairmont Copley Plaza Hotel - Boston, Massachusetts

Course Directors
Samuel Z. Goldhaber, M.D. and Paul M Ridker, M.D.

www.cme.hms.harvard.edu/courses/thrombosis

The objective of this two-day course is for internationally recognized faculty to provide a concise, state-of-the-art overview of critical developments in the diagnosis, treatment, and prevention of thromboembolic disorders in the coronary, carotid, pulmonary, peripheral arterial, and venous systems. The course, offered once every 3 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 one-fourth of the time set aside for active discussion with faculty. The first day will focus on arterial thrombosis and the second day will focus on venous thrombosis.

Specific clinical topics to be covered include: 1) New guidelines to manage acute myocardial infarction, pulmonary embolism, and DVT, 2) antithrombotic therapy with low molecular weight heparin and antiplatelet therapy for acute coronary syndromes, 3) drug-eluting coronary stents and percutaneous coronary interventions, 4) novel drug therapies such as pentasaccharides and oral direct thrombin inhibitors, 5) primary pulmonary hypertension, 6) heparin-induced thrombocytopenia, 7) tricks-of-the-trade for running an Anticoagulation Service, 8) thrombolytic therapy for acute DVT and pulmonary embolism, and 9) prevention of venous thromboembolism.

A comprehensive syllabus which includes lecture outlines and up-to-date bibliographies will be available to all course participants to help organize a personal review of the field of thrombosis and thromboembolism.

ACCREDITATION: Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Harvard Medical School designates this educational activity for a maximum of 20 AMA PRA Category 1 Credit(s)TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

REGISTRATION INFORMATION: **Tuition Fee - \$495 (USD). Reduced Fee for Residents and Fellows in Training** (with a letter of verification from Department Chair) - **\$445 (USD). Reduced Fee for Allied Health Professionals - \$395 (USD).** All foreign payments must be made by draft on a United States bank or by Visa or Mastercard. If paying by check, please make payable to *Harvard Medical School* and mail with this registration form to: **Harvard MED-CME, P.O. Box 825, Boston, MA 02117-0825.** If paying by credit card, please fax the completed registration form to (617) 384-8686, register online at www.cme.hms.harvard.edu, or mail it to the above address. **Telephone registrations are not accepted.** Inquiries should be directed to the above address, made by phone: (617) 384-8600, Monday - Friday, 10 a.m. to 4 p.m. (EST), or by e-mail: hms-cme@hms.harvard.edu

ONLINE INFORMATION: To register or view course information online, visit our home page: www.cme.hms.harvard.edu/courses/thrombosis. **To ensure proper registration, please add the first three characters of the source code found at the bottom of the registration form.**

REFUND POLICY: A handling fee of \$60 is deducted for cancellation. Refund request must be received by mail one week prior to the course. No refund will be made thereafter.

COURSE LOCATION: All sessions will be held at the **Fairmont Copley Plaza**, 138 St. James Ave., Boston, MA 02116 (Telephone: 617-267-5300 or 800-795-3906).

ACCOMMODATIONS: **Hotel rooms in Boston are limited. You are urged to make your reservations early.** A limited number of rooms have been reserved at the **Fairmont Copley Plaza** (617-267-5300 or 800-795-3906) until **September 14, 2006**. Please specify that you are enrolled in this course to receive a reduced room rate. A map of Boston listing local hotels will be sent with your confirmation of enrollment. For additional housing assistance, call Boston Reservations at (617) 332-4199.

TRAVEL: For information about reduced airfare, call the Harvard Medical School, Department of Continuing Education at (617) 384-8600, Monday - Friday, 10 a.m. to 4 p.m. (EST).

Attendance is limited --- register early!

THROMBOSIS AND THROMBOEMBOLISM: NEW STRATEGIES FOR IMPROVED PATIENT CARE Class #261495

October 12-13, 2006

Tuition Fee: \$495 (USD)
Residents* and Fellows in Training*: \$445 (USD)
Allied Health Professionals: \$395 (USD)

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Last First Middle Initial

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 Please check if you want to be **excluded** from receiving email notices of future Harvard Medical School, Department of Continuing Education programs.

Professional School Attended _____ Year of Graduation _____

Profession _____

Principal Specialty _____ Board Certified: Yes No

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*A letter of verification from Department Chair must accompany registration form for a reduced fee.

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Registrations paid by credit card can be faxed to (617) 384-8686, or mailed to the above listed address.

PROGRAM

THROMBOSIS AND THROMBOEMBOLISM

THURSDAY, OCTOBER 12

7:00 - 7:45 a.m. Registration

7:45 - 8:00 a.m. Seating

ARTERIAL THROMBOSIS

8:00 a.m. Welcome *Samuel Z. Goldhaber, M.D.*
and *Paul M Ridker, M.D.*

8:10 a.m. Opening Remarks *Arthur A. Sasahara, M.D.*

State-of-the-Art

Atherothrombosis: Current Prospectives

8:15 - 8:45 a.m. Atherothrombosis Update and Overview
..... *Peter Libby, M.D.*

8:45 - 8:55 a.m. Discussion

8:55 - 9:25 a.m. Inflammation *Paul M Ridker, M.D.*

9:25 - 9:35 a.m. Discussion

9:35 - 10:35 a.m. Acute Myocardial Infarction *Elliott M. Antman, M.D.*

10:35 - 10:45 a.m. Discussion

10:45 - 11:10 a.m. Coffee Break

Therapeutic Targets and Approaches

11:10 - 11:40 a.m. ACE Inhibition and Angiotensin
Receptor Blockade *Marc A. Pfeffer, M.D., Ph.D.*

11:40 - 11:50 a.m. Discussion

11:50 - 12:20 p.m. Genetic Determinants of Arterial Thrombosis
..... *Joseph Loscalzo, M.D., Ph.D.*

12:20 - 12:30 p.m. Discussion

12:30 - 1:00 p.m. Cholesterol Lowering in Atherosclerosis: Is
Lower Really Better? *Eugene Braunwald, M.D.*

1:00 - 1:10 p.m. Discussion

Clinical Approach to Disease Management

1:10 - 2:10 p.m. Lunch

2:10 - 2:30 p.m. Percutaneous Coronary Interventions
..... *Laura Mauri, M.D., MSC*

2:30 - 2:40 p.m. Discussion

2:40 - 3:00 p.m. Antiplatelet Monitoring *Daniel I. Simon, M.D.*

3:00 - 3:10 p.m. Discussion

3:10 - 3:30 p.m. Peripheral Catheter-Based Interventions
..... *Piotr Sobieszczyk, M.D.*

3:30 - 3:40 p.m. Discussion

3:40 - 4:00 p.m. Vascular Surgical Interventions
..... *Michael Conte, M.D.*

4:00 - 4:10 p.m. Discussion

4:10 - 4:30 p.m. Break

4:30 - 5:00 p.m. Vascular Medicine A *Mark A. Creager, M.D.*

5:00 - 5:10 p.m. Discussion

5:10 - 5:40 p.m. Vascular Medicine B *Joshua A. Beckman, M.D.*

5:40 - 5:50 p.m. Discussion

Breakout Sessions I / II

6:00 - 6:50 p.m. Noninvasive Vascular Imaging
..... *Marie Gerhard-Herman, M.D.*

7:00 - 7:50 p.m. *Michael Jaff, DO*

6:00 - 6:50 p.m. Case Presentations

7:00 - 7:50 p.m. *Michelle A. Albert, M.D.*

..... *Peter H. Stone, M.D.*

7:50 p.m. Adjourn

Please Note: Program changes/substitutions may be made without notice.

VENOUS THROMBOSIS

FRIDAY, OCTOBER 13

Fundamental Concepts

7:20 - 7:50 a.m. Magnitude of the Problem of Venous Thromboembolism
in USA Hospitals *Frederick A. Anderson, Jr., Ph.D.*

7:50 - 8:00 a.m. Discussion

8:00 - 8:30 a.m. Pulmonary Pathophysiology of Pulmonary
Embolism *C. Gregory Elliott, M.D.*

8:30 - 8:40 a.m. Discussion

8:40 - 9:10 a.m. Cardiovascular Pathophysiology of Pulmonary
Embolism *Stavros V. Konstantinides, M.D.*

9:10 - 9:20 a.m. Discussion

9:20 - 9:50 a.m. Pathologies of Venous Thromboembolism
..... *Jeffrey Weitz, M.D.*

9:50 - 10:00 a.m. Discussion

10:00 - 10:30 a.m. Genetics
..... *Christine Seidman, M.D.*

10:30 - 10:40 a.m. Discussion

10:40 - 11:05 a.m. Coffee Break

Management of Venous Thromboembolism

11:05 - 11:20 a.m. Venous Thromboembolism Historical
Perspective *Arthur A. Sasahara, M.D.*

11:20 - 11:25 a.m. Discussion

11:25 - 11:55 a.m. Epidemiology of Venous Thromboembolism
..... *Mary Cushman, M.D.*

11:55 - 12:05 p.m. Discussion

12:05 - 12:35 p.m. Diagnosis of Pulmonary Embolism
..... *Henri Bounameaux, M.D.*

12:35 - 12:40 p.m. Discussion

12:40 - 1:10 p.m. Risk Stratification of Pulmonary
Embolism *Samuel Z. Goldhaber, M.D.*

1:10 - 1:20 p.m. Discussion

1:20 - 2:20 p.m. Lunch

2:20 - 2:50 p.m. Prevention of Venous Thromboembolism
Embolism *Samuel Z. Goldhaber, M.D.*

2:50 - 3:00 p.m. Discussion

Miniupdates

3:00 - 3:15 p.m. Direct Thrombin Inhibitors: Bivalirudin,
Lepirudin, Argatroban *David J. Kuter, M.D.*

3:15 - 3:20 p.m. Discussion

3:20 - 3:35 p.m. Injectable anti-Xa Agents: Fondaparinux,
Idraparinux *James Bradner, M.D.*

3:35 - 3:40 p.m. Discussion

3:40 - 3:55 p.m. Novel Oral Anticoagulants *Jeffrey Weitz, M.D.*

3:55 - 4:00 p.m. Discussion

4:00 - 4:15 p.m. Drug Safety *John Fanikos, R.Ph., MBA*
..... *Erin M. Oliver, PA-C*
..... *Nicole Grasso-Correnti, R.N., BSN*

4:15 - 4:20 p.m. Discussion

4:20 - 4:35 p.m. Varicose Vein Interventions *Richard A. Baum, M.D.*

4:35 - 4:40 p.m. Discussion

4:40 - 4:55 p.m. Catheter Directed Thrombolysis and Inferior
Vena Caval Filter Update *Piotr Sobieszczyk, M.D.*

4:55 - 5:00 p.m. Discussion

5:00 p.m. Adjourn

HARVARD FACULTY

Michelle A. Albert

Elliott M. Antman

Richard A. Baum

Joshua A. Beckman

James Bradner

Eugene Braunwald

Michael Conte

Mark A. Creager

John Fanikos

Marie Gerhard-Herman

Samuel Z. Goldhaber

Nicole Grasso-Correnti

Michael Jaff

David J. Kuter

Peter Libby

Joseph Loscalzo

Laura Mauri

Erin M. Oliver

Marc A. Pfeffer

Paul M Ridker

Arthur A. Sasahara

Christine Seidman

Piotr Sobieszczyk

Peter H. Stone

GUEST FACULTY

Frederick A. Anderson, Jr., Professor of Research, Department of Surgery Director, Center for Outcomes Research, University of Massachusetts Medical School

Henri Bounameaux, Associate Professor of Medicine and Director of the Division of Angiology and Hemostasis, University Hospital of Geneva, Geneva, Switzerland

Mary Cushman, Associate Professor of Medicine; Hematology/Oncology Unit, Principal Researcher, Laboratory for Clinical Biochemistry Research, University of Vermont College of Medicine, Burlington, Vermont

C. Gregory Elliott, Professor, Department of Medicine, Division of Respiratory, Critical Care, and Occupational Pulmonary Medicine, Pulmonary Division, University of Utah Health Sciences Center, LDS Hospital, Salt Lake City, Utah

Stavros V. Konstantinides, Associate Professor of Medicine, Vice-Chairman, Department of Cardiology and Pulmonary Medicine, George August University of Goettingen, Goettingen, Germany

Daniel I. Simon, Herman K. Hellerstein Professor of Medicine; Director, Case Cardiovascular Center, Case School of Medicine; Chief, Division of Cardiology, University Hospitals of Cleveland/Case School of Medicine

Jeffrey Weitz, Director of the Experimental Thrombosis and Atherosclerosis (ETA) Programme, Director, Henderson Research Center, Hamilton, Ontario, Canada