

TRAUMA & CRITICAL CARE SYMPOSIUM



NOVEMBER 7 – 9, 2010

FAIRMONT COPLEY PLAZA HOTEL
BOSTON, MASSACHUSETTS

SYMPOSIUM DIRECTORS: GEORGE VELMAHOS, MD, PhD
J. PERREN COBB, MD



HARVARD MEDICAL SCHOOL
Department of Continuing Education
MASSACHUSETTS GENERAL HOSPITAL
Department of Surgery
Department of Anesthesia and Critical Care



The **Harvard Trauma & Critical Care Symposium** is designed to review state-of-the-art information about the diagnosis and management of severely ill patients. The Symposium provides an ideal mix of the traditional standard-of-care principles with cutting-edge, forward-moving practices. It explores issues related to surgical technique, resuscitation, inflammation and infection, respiratory care, nutrition, prehospital care, and ethics. Surgeons, intensivists, and other health care providers with an interest to trauma and critical illness is the target audience. To provide a fine balance between the multiple facets of care encountered, the Symposium runs “joint” sessions in the morning and “specialty” sessions in the afternoon. In the joint sessions, problems that are common to all specialties caring for trauma and critically ill surgical patients are explored. In the specialty sessions, the topics presented are related more specifically to surgeons. Among the highlights of the Symposium are debate sessions and expert panels that discuss real-life cases and seek audience participation. The education delivered is expected to be exciting, readily applicable, and memorable.

This Symposium provides in-depth and cutting-edge information in the field of critical care and trauma.

Participants will:

- Improve clinical skills in managing critically ill surgical patients
- Establish priorities in resuscitation of trauma patients
- Learn the evidence that supports decisions and interventions
- Receive examples based on real-life cases through expert panel and debate sessions
- List important diagnostic test and therapeutic maneuvers that are considered standard of care
- Consider new interventions and against-the-dogma techniques that may improve outcome
- Understand relevant areas of basic science that provide the foundation for clinical decision-making
- Interact directly with local and national leaders in the field of trauma and critical care

COURSE LOCATION

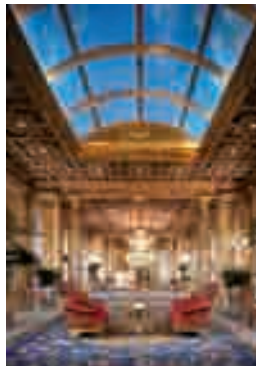
Fairmont Copley Plaza Hotel

138 St. James Ave., Boston, MA 02116
Telephone: (617) 267-5300

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 Hotel until October 17, 2010.**

Please specify that you are enrolled in this course to receive a reduced room rate of \$255 (moderate room)/\$275 (Fairmont room)/\$305 (deluxe room).

A map of Boston listing local hotels will be sent to you with your confirmation of enrollment. For information on reduced airfare, call the HMS Travel Desk toll free 1(877) 4-HARVMD (1-877-442-7863) Monday–Friday, 9 AM–8 PM (EST). From outside the U.S., Canada, and Virgin Islands, please call (617) 559-3764.



For additional course information,
please contact Rosangely Martinez:
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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 [Symposium Only: 13.75; Pre-Course 1-4 Only: 5.25; Pre-Course 5 Only: 7.75 *AMA PRA Category 1 Credit*™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

In compliance with the Board of Registration in Nursing regulations pertaining to continuing education 244 CMR 5.04 (2)(b), this program provides a total of 14.75 Nursing Contact Hours. Nurses should only claim credit commensurate with the extent of their participation in the activity.

To register or view course information online, visit:
www.cme.hms.harvard.edu/courses/criticalcare

2010 PRE-COURSE SCHEDULE

Sunday, November 7

PRE-COURSE 1: SURGICAL TECHNIQUES IN TRAUMA

9:00 – 9:20	Esophageal injuries
9:20 – 9:40	Carotid injuries
9:40 – 10:00	Tracheal injuries
10:00 – 10:20	Panel discussion
10:20 – 10:40	BREAK
10:40 – 11:00	Handsewn vs. stapled anastomosis
11:00 – 11:20	Kidney and bladder injuries
11:20 – 11:40	Preperitoneal packing for pelvic injuries
11:40 – 12:00	Panel discussion

Course Director: Hasan B. Alam, MD
Hasan B. Alam, MD
George Velmahos, MD
Christopher R. Morse, MD

David R. King, MD

George Velmahos, MD

Marc A. de Moya, MD

NEW THIS YEAR!

PRE-COURSE 2: EMS REFRESHER

9:00 – 9:20	Prehospital fluids: Permissive hypotension
9:20 – 9:40	Prehospital intubation
9:40 – 10:00	Novel and future modalities for prehospital trauma
10:00 – 10:20	Simulation and trauma
10:20 – 10:40	Panel discussion
10:40 – 11:00	BREAK
11:00 – 11:20	Lessons from the front line: Prehospital military medicine
11:20 – 11:40	Ultrasound in prehospital care
11:40 – 12:00	Therapeutic hypothermia for cardiac arrest
12:00 – 12:20	Panel discussion

Course Director: Mark D. Pearlmutter, MD

Kimberly A. Davis, MD

Ali S. Raja, MD

David R. King, MD

Charles N. Pozner, MD

Ricky Kue, MD

Matthew B. Mostofi, MD

Mark D. Pearlmutter, MD

PRE-COURSE 3: TRAUMA & EMERGENCY SONOGRAPHY WORKSHOP

13:00 – 13:20	Basic tenets
13:20 – 13:40	F.A.S.T.
13:40 – 14:00	Assessment for pneumo/hemothorax
14:00 – 14:20	Vascular access
14:20 – 14:40	Echocardiography for volume assessment
14:40 – 16:00	Hands-on experience on live models and mannequins

Course Director: Marc A. de Moya, MD

Marc A. de Moya, MD

Vicki E. Noble, MD

Andrew S. Liteplo, MD

Hovig V. Chitilian, MD

Daniel W. Johnson, MD

All faculty

PRE-COURSE 4: COMPLEX AIRWAY AND MECHANICAL VENTILATION

13:00 – 13:20	High-frequency oscillation and percussion
13:20 – 13:40	APRV
13:40 – 14:00	Prone positioning
14:00 – 14:20	Panel discussion
14:20 – 14:40	BREAK
14:40 – 15:00	The guts of the vent: bells and whistles
15:00 – 15:20	ECMO
15:20 – 15:40	The dysfunctional tracheostomy
15:40 – 16:00	Panel discussion

Course Director: Ulrich H. Schmidt, MD

Daniel W. Chipman, RRT

Todd W. Sarge, MD

Daniel S. Talmor, MD

Ray Ritz, RRT

Peter T. Masiakos, MD

Ulrich H. Schmidt, MD

NEW THIS YEAR!

PRE-COURSE 5: DISASTER MANAGEMENT AND EMERGENCY PREPAREDNESS (DMEP)

(Official course of the American College of Surgeons)

Course Director: Ronald I. Gross, MD

7:15 – 7:30	Registration (Turn in completed pre-test)
7:30 – 7:50	Introduction/Scenario
7:50 – 8:25	Principles for effective disaster preparation and response
8:25 – 9:10	Planning
9:10 – 9:35	Incident Command
9:35 – 10:05	Mass Casualty Triage
10:05 – 10:15	BREAK
10:15 – 10:45	Pre-hospital Disaster
10:45 – 11:20	Process for Hospital Disaster Response

Ronald I. Gross, MD

Ronald I. Gross, MD

Leonard J. Weireter, MD

Patricia O'Neill, MD

Susan M. Briggs, MD

Leonard J. Weireter, MD

Susan M. Briggs, MD

2010 SYMPOSIUM SCHEDULE

11:20 – 12:00	Interactive Scenario	<i>All faculty</i>
12:00 – 12:35	BREAK	
12:35 – 13:05	Pathophysiology/Patterns: Blast	<i>Susan M. Briggs, MD</i>
13:05 – 13:35	Pathophysiology/Patterns: Burns	<i>Leonard J. Weireter, MD</i>
13:35 – 14:20	Pathophysiology/Patterns: Chemical & Radiological	<i>Patricia O'Neill, MD</i>
14:20 – 14:30	BREAK	
14:30 – 14:50	Pediatric Considerations	<i>Susan M. Briggs, MD</i>
14:50 – 15:20	Long-Term Issues/Recovery	<i>Ronald I. Gross, MD</i>
15:20 – 16:00	Interactive Scenario	<i>All faculty</i>
16:00 – 16:20	Post test	
16:20 – 16:35	Review test	<i>All faculty</i>

NOTE: Only one morning and one afternoon pre-course. Participation is limited to 25 registrants per pre-course on a first come-first served basis.

Morning and afternoon focused pre-courses are offered in combination with the main symposium (see registration fees).

Monday, November 8

6:45 – 7:45	Registration	
7:45 – 8:00	Welcome	<i>George Velmahos, MD</i>

SESSION 1: JOINT TRAUMA/CRITICAL CARE

PREHOSPITAL

8:00 – 8:15	Telemonitoring: Lessons from the military	<i>Moderator: Paul D. Biddinger, MD</i>
8:15 – 8:30	Direct transfers to the operating room	<i>David R. King, MD</i>
8:30 – 8:45	Prehospital bleeding control	<i>Suzanne K. Wedel, MD</i>
8:45 – 9:00	Discussion	<i>Hasan B. Alam, MD</i>

MY WAY OR THE HIGHWAY: CT FOR C-SPINE CLEARANCE

9:00 – 9:10	CT is adequate for c-spine clearance	<i>Moderator: Alasdair K.T. Conn, MD</i>
9:10 – 9:20	CT is inadequate for c-spine clearance	<i>Marc A. de Moya, MD</i>
9:20 – 9:30	Discussion and audience vote	<i>Mitchel A. Harris, MD</i>

EMERGENT AIRWAY

9:30 – 9:45	The ideal rapid induction agents	<i>Moderator: David F. Brown, MD</i>
9:45 – 10:00	Video-intubation	<i>Susan R. Wilcox, MD</i>
10:00 – 10:15	Cricothyroidotomy: indications, technique	<i>David A. Peak, MD</i>
10:15 – 10:30	Discussion	<i>Patricia O'Neill, MD</i>
10:30 – 11:00	BREAK	

COMPARTMENT SYNDROMES

11:00 – 11:15	Extremity compartment kills	<i>Moderator: Timothy A. Emhoff, MD</i>
11:15 – 11:30	Abdominal compartment kills	<i>Edward Kelly, MD</i>
11:30 – 11:45	How to close a fasciotomy	<i>Carl J. Hauser, MD</i>
11:45 – 12:00	How to close an open abdomen	<i>Eric J. Mahoney, MD</i>
12:00 – 12:15	Discussion	<i>Leonard J. Weireter, MD</i>
12:15 – 13:15	LUNCH	

SESSION IIA: TRAUMA BREAKOUT

VASCULAR INJURIES: THE BEAST UNLEASHED

13:15 – 13:25	Stents for blunt vascular injury: Ever operate?	<i>Moderator: Peter A. Burke, MD</i>
13:25 – 13:35	Ligate all the veins under the diaphragm?	<i>Virenda I. Patel, MD</i>
13:35 – 13:45	Fix the artery before or after the bone?	<i>Timothy A. Emhoff, MD</i>
13:45 – 13:55	Which arteries can I ligate?	<i>Ronald I. Gross, MD</i>
13:55 – 14:10	Discussion	<i>David R. King, MD</i>

2010 SYMPOSIUM SCHEDULE

THE BEST TRAUMA SURGEON

- 14:10 – 14:20 **Case #1: and audience vote**
14:20 – 14:30 **Case #2: and audience vote**
14:30 – 14:40 **Case #3: and audience vote**
14:40 – 15:00 **BREAK**

Moderator: George Velmahos, MD
David R King, MD vs. Suresh K. Agarwal, MD
David R. King, MD vs. Suresh K. Agarwal, MD
David R. King, MD vs. Suresh K. Agarwal, MD

PELVIC TRAUMA

- 15:00 – 15:15 **Open pelvic fractures: Crippling, lethal!**
15:15 – 15:30 **Bleeding control: Damage-control angiography**
15:30 – 15:45 **Minor pelvic fractures: Never a problem?**
15:45 – 16:00 **Discussion**

Moderator: Carl J. Hauser, MD
Robert J. Winchell, MD
Benjamin J. Pomerantz, MD
Chad T. Wilson, MD

SESSION IIB: CRITICAL CARE BREAKOUT

THE BEST INTENSIVIST

- 13:10 – 13:20 **Case #1 and audience vote**
13:20 – 13:30 **Case #2 and audience vote**
13:30 – 13:40 **Case #3 and audience vote**

Moderator: Daniel S. Talmor, MD
Gyorgy Frenzl, MD vs. Richard M. Pino, MD
Gyorgy Frenzl, MD vs. Richard M. Pino, MD
Gyorgy Frenzl, MD vs. Richard M. Pino, MD

SEVERE INFECTIONS

- 13:40 – 13:55 **The staph that kills**
13:55 – 14:10 **Non-albicans fungal infections**
14:10 – 14:25 **Endocarditis**
14:25 – 14:40 **Discussion**
14:40 – 15:00 **BREAK**

Moderator: Jeanine Wiener-Kronish, MD
Erik Garpestad, MD
Michael E. Aronoff, MD
Ulrich H. Schmidt, MD

NEW EVIDENCE ON THROMBOSIS

- 15:00 – 15:15 **Alternative (non-heparin) pharmacologic prevention**
15:15 – 15:30 **Removable IVC filters: Good, bad, indifferent?**
15:30 – 15:45 **HIT: A real threat or an artificial epidemic?**
15:45 – 16:00 **Discussion**

Moderator: Nicholas Sadovnikoff, MD
Edward A. Bittner, MD
James M. Hurst, MD
Nicholas Sadovnikoff, MD

SESSION III: JOINT TRAUMA/CRITICAL CARE

THE SURVIVOR GAME

16:00 – 17:00

Moderator: George Velmahos, MD
Kimberly A. Davis, Peter A. Burke, David R. King, Ronald I. Gross, Patricia O'Neill, Carl J. Hauser

Tuesday, November 9

SESSION IV: JOINT TRAUMA/CRITICAL CARE

STEROIDS: ANY ROLE?

- 7:30 – 7:40 **Any role of steroids in head injury?**
7:40 – 7:50 **Any role of steroids in spinal cord injury?**
7:50 – 8:00 **Any role of steroids in ARDS?**
8:00 – 8:10 **Any role of steroids in sepsis?**
8:10 – 8:30 **Discussion**

Moderator: Jeanine Wiener-Kronish, MD
Ann-Christine Duhaime, MD
Jonathan D. Gates, MD
Luca M. Bigatello, MD
Hasan B. Alam, MD

MY WAY OR THE HIGHWAY: FFP IN RESUSCITATION

- 8:30 – 8:35 **Setting the stage: A case of massive bleeding**
8:35 – 8:50 **Give more FFP and then some more!**
8:50 – 9:05 **FFP is a precious recourse: Do not waste it!**
9:05 – 9:15 **Discussion and audience vote!**
9:15 – 9:45 **BREAK**

Moderator: George Velmahos, MD
George Velmahos, MD
David R. King, MD
Richard L. Haspel, MD

THE EVIDENCE IS SOLID (OR IS IT)?

- 9:45 – 10:00 **Primary repair for ALL colon injuries**
10:00 – 10:15 **Percutaneous tracheostomy for ALL critical patients**
10:15 – 10:30 **Hypotensive resuscitation for ALL bleeding patients**
10:30: – 10:45 **Discussion**

Moderator: Kimberly A. Davis, MD
Frederick Millham, MD
Marc A. de Moya, MD
Patricia O'Neill, MD

2010 SYMPOSIUM SCHEDULE

TRAUMA/CRITICAL CARE JEOPARDY

10:45 – 11:20

Moderator: Hasan B. Alam, MD
Frederick Millham, Heena Santry, Zara R. Cooper, Robert J. Winchell

KEYNOTE LECTURE:

11:20 – 11:30

Introduction

George Velmahos, MD

11:30 – 12:00

Universal Health Coverage: The Massachusetts Experiment

David F. Torchiana, MD

12:00 – 13:00

LUNCH

SESSION VA: TRAUMA BREAKOUT

CONTROVERSIES: DO YOU AGREE?

13:00 – 13:15

Never ER thoracotomy for blunt trauma!

Moderator: Frederick Millham, MD

David R. King, MD

13:15 – 13:30

Never work over 12 hours straight!

Mark D. Pearlmutter, MD

13:30 – 13:45

Never remove a pediatric spleen!

David P. Mooney, MD

13:45 – 14:00

Discussion

OPERATIVE OR NONOPERATIVE?

14:00 – 14:15

Case #1: Large duodenal hematoma

Moderator: George Velmahos, MD

Ronald I. Gross, MD vs. Kimberly A. Davis, MD

14:15 – 14:30

Case #2: Distal pancreatic injury

Michael B. Rosenblatt, MD vs. Jonathan D. Gates, MD

14:30 – 14:45

Case #3: Internal carotid gunshot wound

Peter A. Burke, MD vs. Robert J. Winchell, MD

14:45 – 15:00

Case #4: Renal artery injury

Zara R. Cooper, MD vs. Suresh K. Agarwal, MD

15:00 – 15:20

BREAK

FIX NOW OR LATER?

15:20 – 15:35

Le Forte facial fractures

Moderator: Robert J. Winchell, MD

Maria J. Troulis, MD

15:35 – 15:50

Spine fractures with cord injury

Malcolm R. Smith, MD

15:50 – 16:05

Urethral/penile trauma

Adam S. Feldman, MD

16:05 – 16:15

Discussion

SESSION VB: CRITICAL CARE BREAKOUT

ICU ETHICS

13:00 – 13:10

Treat the relatives, not only the patient

Moderator: Alice Gervasini, RN, PhD

Ronald E. Hirschberg, MD

13:10 – 13:20

Give alcohol to the alcoholic?

Shamim H. Nejad, MD

13:20 – 13:30

Are hard restraints humane?

James F. Watkins, MD

13:30 – 13:40

Family members in ICU rounds?

Heena Santry, MD

13:40 – 14:00

Discussion

THE ETERNAL DEBATES

14:00 – 14:15

The perfect pain killer

Moderator: Luca M. Bigatello, MD

Padma Gulur, MD

14:15 – 14:30

The perfect sedation agent

Michael T. Bailin, MD

14:30 – 14:45

The perfect nutritional regimen

Vihass Patel, MD

14:45 – 15:00

Discussion

15:00 – 15:20

BREAK

NEW MESSAGES

15:20 – 15:35

Fulminant C. difficile colitis: When and how to react

Moderator: James M. Hurst, MD

Miguel M. Gaeta, MD

15:35 – 15:50

Donation after cardiac death

Nahel Elias, MD

15:50 – 16:05

Beyond antibiotics: antiseptic bathing, oral and environmental hygiene

Cheryl D. Waldron, NP

16:05 – 16:15

Discussion

SESSION VI: JOINT TRAUMA/CRITICAL CARE

THE FINAL WORD

16:15 – 16:35

Summary of the main points of the Symposium

George Velmahos, MD

To register or view course information online, visit:
www.cme.hms.harvard.edu/courses/CriticalCare



REGISTRATION FORM

REGISTRATION Register early, space is limited. All foreign payments must be made by a draft on a United States bank or by Visa or MasterCard. **Telephone, fax, or mail-in registration with credit card payment is not accepted.** If paying by check, make it payable to Harvard Medical School and mail with the completed registration form to: **Harvard Medical School – Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825.** If paying by credit card, please register online at www.cme.hms.harvard.edu/courses/criticalcare.

INQUIRIES Inquiries should be directed to the above address, made by phone: (617) 384-8600, Monday–Friday, 10AM to 4PM (EST), or by email: hms-cme@hms.harvard.edu. Upon receipt of your registration form an email confirmation from the HMS-DCE office will be sent to you. Therefore, be sure to include an email address that you check daily/frequently. Your email address is used for critical information about the course including: registration confirmation, course evaluation and certificate.

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

Trauma & Critical Care Symposium

November 7–9, 2010 COURSE # 3014022

Registration Fee

<input type="radio"/> Physicians (Symposium only: Monday and Tuesday)	\$490 (USD)
<input type="radio"/> Physicians (Symposium & 2 half-day or 1 full-day pre-course on Sunday)	\$590 (USD)
<input type="radio"/> Residents* & Fellows in Training* (Symposium only: Monday and Tuesday)	\$350 (USD)
<input type="radio"/> Residents* & Fellows in Training* (Symposium & 2 half-day or 1 full-day pre-course) <i>*A letter of verification from Department Chair must accompany registration form for a reduced fee.</i>	\$410 (USD)
<input type="radio"/> Nurses/Allied Health Professionals (Symposium only: Monday and Tuesday)	\$350 (USD)
<input type="radio"/> Nurses/Allied Health Professionals (Symposium & 2 half-day or 1 full-day pre-course)	\$410 (USD)
<input type="radio"/> EMT/Paramedics (EMS refresher pre-course only)	\$40 (USD)
<input type="radio"/> All Attendees (DMEP pre-course only)	\$100 (USD)

Tuition

Please Print Full Name

First	MI	Last	Degree
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Street Address

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Please note: Your email address is used for critical information about the course including registration confirmation, course evaluation and certificate.

Please be sure to include an email address you check daily or frequently.

Email Address

Please check if you wish to be excluded from receiving email notices of future HMS-DCE programs.

Professional School Attended

Year of Graduation

Primary Specialty (Physicians Only)

Board Certified? Yes No

Organization Affiliation

PAYMENT INFORMATION:

Check is enclosed: Make check payable to Harvard Medical School and mail it with this form to:
Harvard Medical School - Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825

Registrations paid by credit card may be made online at
www.cme.hms.harvard.edu/courses/CriticalCare

PLEASE NOTE: TELEPHONE, FAX, OR MAIL-IN REGISTRATION WITH CREDIT CARD PAYMENT IS NOT ACCEPTED.

Online Registrants: Add the first three characters of the source code found here →

Source Code: WEB