

# 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

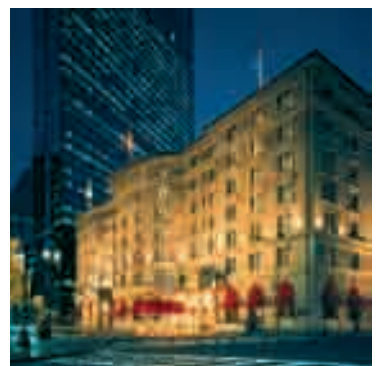
### COURSE LOCATION

#### 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<sup>SM</sup>]. 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](http://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	<b>Esophageal injuries</b>
9:20 – 9:40	<b>Carotid injuries</b>
9:40 – 10:00	<b>Tracheal injuries</b>
10:00 – 10:20	<b>Panel discussion</b>
10:20 – 10:40	<b>BREAK</b>
10:40 – 11:00	<b>Handsewn vs. stapled anastomosis</b>
11:00 – 11:20	<b>Kidney and bladder injuries</b>
11:20 – 11:40	<b>Preperitoneal packing for pelvic injuries</b>
11:40 – 12:00	<b>Panel discussion</b>

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

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

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

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

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	<b>Interactive Scenario</b>	<i>All faculty</i>
12:00 – 12:35	<b>BREAK</b>	
12:35 – 13:05	<b>Pathophysiology/Patterns: Blast</b>	<i>Susan M. Briggs, MD</i>
13:05 – 13:35	<b>Pathophysiology/Patterns: Burns</b>	<i>Leonard J. Weireter, MD</i>
13:35 – 14:20	<b>Pathophysiology/Patterns: Chemical &amp; Radiological</b>	<i>Patricia O'Neill, MD</i>
14:20 – 14:30	<b>BREAK</b>	
14:30 – 14:50	<b>Pediatric Considerations</b>	<i>Susan M. Briggs, MD</i>
14:50 – 15:20	<b>Long-Term Issues/Recovery</b>	<i>Ronald I. Gross, MD</i>
15:20 – 16:00	<b>Interactive Scenario</b>	<i>All faculty</i>
16:00 – 16:20	<b>Post test</b>	
16:20 – 16:35	<b>Review test</b>	<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	<b>Registration</b>	
7:45 – 8:00	<b>Welcome</b>	<i>George Velmahos, MD</i>

### SESSION 1: JOINT TRAUMA/CRITICAL CARE

#### PREHOSPITAL

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

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

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

#### EMERGENT AIRWAY

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

#### COMPARTMENT SYNDROMES

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

### SESSION IIA: TRAUMA BREAKOUT

#### VASCULAR INJURIES: THE BEAST UNLEASHED

13:15 – 13:25	<b>Stents for blunt vascular injury: Ever operate?</b>	<i>Moderator: Peter A. Burke, MD</i>
13:25 – 13:35	<b>Ligate all the veins under the diaphragm?</b>	<i>Virenda I. Patel, MD</i>
13:35 – 13:45	<b>Fix the artery before or after the bone?</b>	<i>Timothy A. Emhoff, MD</i>
13:45 – 13:55	<b>Which arteries can I ligate?</b>	<i>Ronald I. Gross, MD</i>
13:55 – 14:10	<b>Discussion</b>	<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](http://www.cme.hms.harvard.edu/courses/CriticalCare)





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