**Symposium Description**

The care of injured and critically ill patients is complex and challenging. The Harvard Trauma & Critical Care Symposium aims to give clear guidelines to practicing clinicians who manage such patients. This symposium offers an ideal mix of the traditional standard-of-care principles with new, cutting edge information. It explores issues in several areas including resuscitation, surgical techniques, bleeding control, inflammation and infection, respiratory care, nutrition, prehospital care, rehabilitation, and ethics. Multiple learning modalities will be incorporated into the course to engage the learner in the educational process. This will assist the learners to develop new strategies they can apply in their own practice setting.

**Learning Objectives**

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

1. Apply newly acquired knowledge in the management of trauma patients
2. Formulate complete resuscitation strategies based on evidence-based guidelines and expert opinion
3. Select appropriate diagnostic and therapeutic algorithms for specific trauma presentations
4. Evaluate the evidence supporting diagnostic algorithms and clinical pathways
5. Compare and contrast standard-of-care management with cutting-edge treatments

**Target Audience**

Surgeons, critical care specialists, emergency medicine physicians, nurses, prehospital providers. (MD’s, RNs, ARNP’s, PA’s) 70% from MA, 20% from the wider NE region, 10% from the rest of the country and internationally.

**ACGME Competencies**

This course is designed to meet one or more of the following accreditation council of Graduate Medical education competencies:

- Patient care
- Medical knowledge
- Practice-based learning and improvement
- Interpersonal and communication skills
- Professionalism
- Systems-based practice

**Course Location**

All sessions for this course will be held at the Colonnade Hotel, 120 Huntington Avenue, Boston, MA (telephone: 617-424-7000)
Faculty

SYMPOSIUM DIRECTOR
George C. Velmahos, MD, PhD, MSEd
John F. Burke Professor of Surgery,
Harvard Medical School
Chief, Division of Trauma,
Emergency Surgery & Surgical Critical Care
Massachusetts General Hospital

ADMINISTRATIVE COURSE
COORDINATOR
Rosangely Martinez
Administrative Assistant & Symposium Coordinator
Division of Trauma,
Emergency Surgery & Surgical Critical Care
Massachusetts General Hospital

Guest Faculty

Steven A. Baddour, Esq.
Assistant Attorney General
McDermott Will & Emery LLP

Luca M. Bigatello, MD
Director, Surgical Critical Care
St. Elizabeth’s Medical Center
Professor of Anesthesiology
Tufts University School of Medicine

Peter A. Burke, MD
Profesor of Surgery
Boston University School of Medicine
Chief of Trauma & Surgical Critical Care & Emergency Surgery
Program Director, Acute Care Surgery & Critical Care Fellowship
Boston Medical Center

Kimberly A. Davis, MD
Professor of Surgery
Vice Chair for Clinical Affairs
Chief of Trauma,
Surgical Critical Care
Trauma Medical Director,
Surgical Director,
Quality & Performance Improvement
Yale-New Haven Hospital

Andrew R. Doben, MD
Assistant Professor of Surgery
Tufts University School of Medicine
Attending Surgeon
Baystate Medical Center

Jon D. Dorfman, MD
Assistant Professor of Surgery
Department of Surgery
Division of Trauma & Surgical Critical Care
UMass Memorial Medical Center

Timothy A. Emhoff, MD
Clinical Associate Professor of Surgery
University of Massachusetts Medical School
Chief of Trauma and Surgical Critical Care
UMass Memorial Medical Center

Ronald I. Gross, MD
Associate Professor of Surgery
Tufts University School of Medicine
Chief, Division of Trauma & Emergency Surgery Services
Baystate Medical Center

James Hooley
Chief of Department
Superintendent in Chief
Boston Emergency Medical Services

Kenji Inaba, MD
Associate Professor of Surgery
Medical Director, Surgical ICU
Division of Trauma & Critical Care
University of Southern California

George Kasotakis, MD
Assistant Professor of Surgery
Division of Acute Care Surgery
Boston University Medical Center

Adrian Maung, MD
Assistant Professor of Surgery/Trauma
Trauma, Surgical Critical Care & Surgical Emergencies
Yale School of Medicine

Lisa A. Patterson MD
Associate Professor of Surgery,
Tufts School of Medicine
Trauma Director/State chair, MA Committee on Trauma
Baystate Medical Center

Reuben Rabinovici, MD
Professor of Surgery
Tufts University School of Medicine
Chief, Trauma Division & Acute Care Surgery
Tufts Medical Center

Ali Salim, MD
Associate Professor of Surgery
Director,
Surgery Residency Program
Director, Trauma Services
Cedars-Sinai Medical Center

Thomas M. Scalea, MD
Professor of Surgery
Director, Program in Trauma; Physician in Chief
R Adams Cowley Shock Trauma Center
University of Maryland

Heena P. Santry, MD
Assistant Professor of Surgery
Trauma & Critical Care
University of Massachusetts Medical School
Reza Askari, MD  
Associate Trauma Director  
Assistant Surgery Clerkship Director  
Brigham & Women’s Hospital

Paul D. Biddinger, MD  
Assistant Professor of Surgery  
Director of Operations,  
Department of Emergency Medicine  
Medical Director for  
Emergency Preparedness  
Massachusetts General Hospital

Jeremy Goverman, MD  
Instructor in Surgery  
Assistant Surgeon, Division of Burns  
Massachusetts General Hospital

Marion L. Growney, ACNP  
Nurse Practitioner  
Cardiac Surgery  
Massachusetts General Hospital

Alok Gupta, MD  
Instructor in Surgery  
Harvard Medical School  
Acute Care Surgeon  
Trauma  
Beth Israel Deaconess Medical Center

Sanjay Gupta, MD  
Clinical Instructor,  
Massachusetts General Hospital  
Director, Trauma, Emergency Surgery,  
Surgical Critical Care  
Southern New Hampshire Medical Center

Christopher DePesa, RN  
Trauma Nurse Coordinator  
Division of Trauma, Emergency Surgery,  
and Surgical Critical Care  
Massachusetts General Hospital

Ann Christine Duhaime, MD  
Nicholas T. Zervas Professor of Neurosurgery  
Chief, Pediatric Neurosurgery  
Massachusetts General Hospital

Marc A. deMoya, MD  
Assistant Professor of Surgery  
Director, General Surgical Residency  
Director, Surgical Core Clerkship  
Massachusetts General Hospital

Miguel M. Gaeta, MD  
Instructor in Surgery  
Massachusetts General Hospital  
Trauma Medical Director  
Eliot Hospital

Jonathan D. Gates, MD  
Assistant Professor of Surgery  
Vascular Surgeon & Director,  
Trauma Center  
Brigham & Women’s Hospital

Alice A. Gervasisi, RN  
Instructor in Surgery  
Nurse Director of Trauma, Emergency Surgery & Surgical Critical Care  
Massachusetts General Hospital

Edward Kelly, MD  
Assistant Professor of Surgery  
Director of Surgical Critical Care & Acute Care Surgery Programs  
Brigham & Women’s Hospital

Peter T. Masiakos, MD  
Assistant Professor of Surgery  
Pediatric Surgeon  
Massachusetts General Hospital  
for Children

Meaghan McDonald, RN  
Emergency Department  
Clinical Nurse Specialist  
Massachusetts General Hospital

Francis J. McGovern, MD  
Physician/Urology  
Massachusetts General Hospital

Sanjay Gupta, MD  
Clinical Instructor,  
Massachusetts General Hospital  
Director, Trauma, Emergency Surgery,  
Surgical Critical Care  
Southern New Hampshire Medical Center

Edward Kelly, MD  
Assistant Professor of Surgery  
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Brigham & Women’s Hospital

Adam B. Lerner, MD  
Assistant Professor of Anesthesia  
Director, Cardiac Anesthesia  
Beth Israel Deaconess Medical Center

Peter T. Masiakos, MD  
Assistant Professor of Surgery  
Pediatric Surgeon  
Massachusetts General Hospital  
for Children

Lincoln McDonald, RN  
Nurse Practitioner  
Trauma, Emergency Surgery & Surgical Critical Care  
Massachusetts General Hospital

David P. Mooney, MD  
Assistant Professor of Surgery  
Director, Trauma Program  
Boston Children’s Hospital

Sandra Muse, NP-BC  
Nurse Director  
Surgical Intensive Care Unit  
Massachusetts General Hospital

Dana Sajed, MD  
Instructor in Surgery  
Assistant in Emergency Medicine  
Director of Emergency Medicine  
Beth Israel Deaconess Medical Center

Richard Wolfe, MD  
Associate Professor of Emergency Medicine  
Director of Emergency Medicine  
Beth Israel Deaconess Medical Center

Cheryl Waldron, NP  
Nurse Practitioner  
Trauma, Emergency Surgery & Surgical Critical Care  
Massachusetts General Hospital

Daniel D. Yeh, MD  
Clinical Instructor  
Attending Surgeon, Trauma, Emergency Surgery & Surgical Critical Care  
Massachusetts General Hospital

Benjamin Hollingsworth, ACNP  
Division of Trauma, Emergency Surgery and Surgical Critical Care  
Massachusetts General Hospital

Haytham Kaafarani, MD  
Instructor in Surgery  
Division of Trauma, Emergency Surgery & Surgical Critical Care  
Massachusetts General Hospital

Jaqueline Kennedy-Harte, RN  
Critical Care Nurse Practitioner  
Surgical Intensive Care Unit  
Massachusetts General Hospital

James King, MD  
Assistant Professor of Surgery  
Division of Trauma, Emergency Surgery & Surgical Critical Care  
Massachusetts General Hospital

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Assistant Professor of Surgery  
Division of Trauma, Emergency Surgery & Surgical Critical Care  
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Instructor in Surgery  
Medical Director of Trauma and Acute Care Surgery  
Wentworth-Douglass Hospital  
Massachusetts General Hospital

Sanjay Gupta, MD  
Clinical Instructor,  
Massachusetts General Hospital  
Director, Trauma, Emergency Surgery,  
Surgical Critical Care  
Southern New Hampshire Medical Center

Caren T. Harris, RN  
Nurse Practitioner  
Pediatric Trauma & Surgical Services  
Massachusetts General Hospital

Mitchell B. Harris, MD  
Associate Professor, Orthopaedic Surgery  
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Pediatric Trauma & Surgical Services  
Massachusetts General Hospital

Mitchell B. Harris, MD  
Associate Professor, Orthopaedic Surgery  
Chief, Orthopaedic Trauma Service  
Brigham & Women’s Hospital
## 2013 Symposium Schedule

### SUNDAY, NOVEMBER 10, 2013

#### PRE-COURSE #1

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 - 7:45</td>
<td>Registration</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td>7:45-8:15</td>
<td>Introduction to PI Concepts and Plan</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td>8:15-10:00</td>
<td>PI Indicators and Audit Filters</td>
<td>Lisa A. Patterson, MD</td>
</tr>
<tr>
<td></td>
<td>PI Issues Identification and Levels of Review</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>10:15-12:00</td>
<td>PI Committee Structure, Roles and Confidentiality Protection</td>
<td>Lisa A. Patterson, MD</td>
</tr>
<tr>
<td></td>
<td>Data Management for PI and the Trauma Registry</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td></td>
<td>PI Reports</td>
<td>Lisa A. Patterson, MD</td>
</tr>
<tr>
<td>12:00-12:30</td>
<td>LUNCH</td>
<td></td>
</tr>
<tr>
<td>12:30-14:15</td>
<td>PI Reports (cont’d)</td>
<td>Lisa A. Patterson, MD</td>
</tr>
<tr>
<td></td>
<td>Peer Review Judgement Determination and Confidentiality</td>
<td>Alice A. Gervasini, RN</td>
</tr>
<tr>
<td></td>
<td>Action Plan Development and Implementation</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>14:30-16:30</td>
<td>Action Plan Development and Implementation (cont’d)</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td></td>
<td>Institutional Links and Loop Closure</td>
<td>Alice A. Gervasini, RN</td>
</tr>
<tr>
<td></td>
<td>Trauma Systems in Performance Improvement</td>
<td>Ronald I. Gross, MD</td>
</tr>
<tr>
<td>16:30</td>
<td>Evaluations</td>
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</tr>
</tbody>
</table>

#### PRE-COURSE #2

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:05</td>
<td>Introduction</td>
<td>Alice A. Gervasini, RN</td>
</tr>
<tr>
<td>9:05-9:15</td>
<td>The acute abdomen - Clinical assessment points</td>
<td>Sanjay Gupta, MD</td>
</tr>
<tr>
<td>9:15-9:25</td>
<td>The acute abdomen - Diagnostic test points</td>
<td>Miguel M. Gaeta, MD</td>
</tr>
<tr>
<td>9:25-9:35</td>
<td>The acute abdomen - Differentiating urgent from emergent</td>
<td>Frederick Millham, MD</td>
</tr>
<tr>
<td>9:35-9:45</td>
<td>The acute abdomen - Operate vs. observe</td>
<td>Peter S. Hedberg, MD</td>
</tr>
<tr>
<td>9:45-9:55</td>
<td>Discussion</td>
<td>All</td>
</tr>
<tr>
<td>9:55-10:30</td>
<td>Case presentations</td>
<td>Marion L. Growney, RN</td>
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<tr>
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<td>Benjamin Hollingsworth, RN</td>
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<td>Jacky Kennedy-Harte, RN</td>
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<tr>
<td></td>
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<td>Erin L. McLaughlin, RN</td>
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<tr>
<td>10:30-10:45</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>10:45-10:55</td>
<td>Thoracoabdominal trauma - Clinical assessment points</td>
<td>Sanjay Gupta, MD</td>
</tr>
<tr>
<td>10:55-11:05</td>
<td>Thoracoabdominal trauma - Diagnostic test points</td>
<td>Miguel M. Gaeta, MD</td>
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<tr>
<td>11:05-11:15</td>
<td>Thoracoabdominal trauma - Differentiating urgent from emergent</td>
<td>Frederick Millham, MD</td>
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<td>11:15-11:25</td>
<td>Thoracoabdominal trauma - Operate vs. observe</td>
<td>Peter S. Hedberg, MD</td>
</tr>
<tr>
<td>11:25-11:35</td>
<td>Discussion</td>
<td>All</td>
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<tr>
<td>11:35-12:10</td>
<td>Case presentations</td>
<td>Christopher DePesa, RN</td>
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<td>Caren T. Harris, RN</td>
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<td>Sandra Muse, RN</td>
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<td>Cheryl Waldron, RN</td>
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</tbody>
</table>
PRE-COURSE #3  
**SURGICAL TECHNIQUES: DAMAGE CONTROL AND THE OPEN ABDOMEN**  
George C. Velmahos, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Damage control techniques: Packing, stents, staples</td>
<td>Marc A. de Moya, MD</td>
</tr>
<tr>
<td>9:20-9:30</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Vacuum-assisted techniques: From simple to complex</td>
<td>Ali Salim, MD</td>
</tr>
<tr>
<td>9:50-10:00</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Damage control in the pelvis: Preperitoneal pelvic packing</td>
<td>George C. Velmahos, MD</td>
</tr>
<tr>
<td>10:20-10:30</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>10:30-10:45</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>10:45-11:05</td>
<td>Closing the open abdomen: Primary closure, meshes, and patches</td>
<td>Peter J. Fagenholz, MD</td>
</tr>
<tr>
<td>11:05-11:15</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>11:15-11:35</td>
<td>The open abdomen that never closed: Biologic grafts, skin grafts, wound care</td>
<td>Daniel D. Yeh, MD</td>
</tr>
<tr>
<td>11:35-11:45</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>11:45-12:05</td>
<td>Enteroatmospheric fistula: Short- and long-term management</td>
<td>Kenji Inaba, MD</td>
</tr>
<tr>
<td>12:05-12:15</td>
<td>Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>

PRE-COURSE #4  
**UTRASOUND FOR TRAUMA AND CRITICAL CARE**  
Marc De Moya, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:15</td>
<td>FAST Principles</td>
<td>Dana Sajed, MD</td>
</tr>
<tr>
<td>13:15-13:30</td>
<td>Thoracic ultrasonography</td>
<td>Daniel D. Yeh, MD</td>
</tr>
<tr>
<td>13:30-13:45</td>
<td>Critical Care ultrasonography: Bedside applications I</td>
<td>Jonathan Charnin, MD</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Critical Care ultrasonography: Bedside applications II</td>
<td>Ulrich Schmidt, MD</td>
</tr>
<tr>
<td>14:00-16:00</td>
<td>Hands-on practice on five stations</td>
<td>All</td>
</tr>
</tbody>
</table>

**MONDAY, NOVEMBER 11, 2013**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00-7:30</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>7:30-7:45</td>
<td>Welcome</td>
<td>George C. Velmahos, MD</td>
</tr>
</tbody>
</table>

**READY FOR THE UNEXPECTED**  
Peter A. Burke, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45-8:00</td>
<td>Preparation of the Prehospital Trauma System</td>
<td>James Hooley</td>
</tr>
<tr>
<td>8:00-8:15</td>
<td>Preparation of the Emergency Department</td>
<td>Richard Wolfe, MD</td>
</tr>
<tr>
<td>8:15-8:30</td>
<td>Preparation of the Trauma Team</td>
<td>Reuven Rabinovici, MD</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

**DEBATE: THREE REASONS TO...**  
Alasdair K.T. Conn, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45-9:00</td>
<td>...pan CT in the Emergency Department</td>
<td>Ali Salim, MD</td>
</tr>
<tr>
<td>9:00-9:15</td>
<td>...do selective CT in the Emergency Department</td>
<td>Marc A. de Moya, MD</td>
</tr>
<tr>
<td>9:15-9:30</td>
<td>Rebuttals, Discussion, Vote</td>
<td></td>
</tr>
</tbody>
</table>

**VIDEO SESSION (WITH ARS)**  
Timothy A. Emhoff, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>9:30-9:45</td>
<td>Penetrating cardiac injury</td>
<td>David R. King, MD</td>
</tr>
<tr>
<td>9:45-10:00</td>
<td>Preperitoneal pelvic packing</td>
<td>Daniel D. Yeh, MD</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>BREAK</td>
<td></td>
</tr>
</tbody>
</table>

**VIDEO SESSION (WITH ARS)**  
Ronald I. Gross, MD

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>10:30-10:45</td>
<td>Traumatic splenectomy</td>
<td>Peter J. Fagenholz, MD</td>
</tr>
<tr>
<td>10:45-11:00</td>
<td>Liver packing</td>
<td>Haytham Kaafarani, MD</td>
</tr>
</tbody>
</table>
### 2013 Symposium Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00-11:40</td>
<td><strong>Panel Discussion</strong>  &lt;br&gt; James Hooley  &lt;br&gt; Jonathan D. Gates, MD  &lt;br&gt; Paul D. Biddinger, MD  &lt;br&gt; Meghan McDonald, RN  &lt;br&gt; Dave P. Mooney, MD</td>
</tr>
<tr>
<td>11:40-11:45</td>
<td><strong>Introduction</strong>  &lt;br&gt; Peter A. Burke, MD</td>
</tr>
<tr>
<td>11:45-12:15</td>
<td><strong>Humanism in a high-tech environment: Is it possible?</strong>  &lt;br&gt; Tom M. Scalea, MD</td>
</tr>
<tr>
<td>12:15-13:15</td>
<td><strong>LUNCH</strong></td>
</tr>
<tr>
<td>13:15-13:30</td>
<td><strong>Hypertonic saline in traumatic brain injury: The evidence, please!</strong>  &lt;br&gt; George Kasotakis, MD</td>
</tr>
<tr>
<td>13:30-13:45</td>
<td><strong>Is early enteral feeding in trauma truly feasible? The evidence, please!</strong>  &lt;br&gt; Daniel D. Yeh, MD</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td><strong>What is the upper limit of blood transfusion? The evidence, please!</strong>  &lt;br&gt; Walter Dzik, MD</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td><strong>Discussion</strong></td>
</tr>
<tr>
<td>14:15-14:25</td>
<td><strong>A big blunt renal trauma</strong>  &lt;br&gt; Haytham Kaafarani, MD  &lt;br&gt; v. Jon D. Dorfman, MD</td>
</tr>
<tr>
<td>14:25-14:35</td>
<td><strong>A missile lodged in the heart</strong>  &lt;br&gt; Haytham Kaafarani, MD  &lt;br&gt; v. Jon D. Dorfman, MD</td>
</tr>
<tr>
<td>14:35-14:45</td>
<td><strong>A femoral artery gunshot wound</strong>  &lt;br&gt; Haytham Kaafarani, MD  &lt;br&gt; v. Jon D. Dorfman, MD</td>
</tr>
<tr>
<td>14:45-15:15</td>
<td><strong>BREAK</strong></td>
</tr>
<tr>
<td>15:15-15:30</td>
<td><strong>How to convince the relatives that that's it!</strong>  &lt;br&gt; Peter J. Fagenholz, MD</td>
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<tr>
<td>15:30-15:45</td>
<td><strong>How to maximize organ donation</strong>  &lt;br&gt; Ali Salim, MD</td>
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<tr>
<td>15:45-16:00</td>
<td><strong>How to accept you made an error</strong>  &lt;br&gt; Heena P. Santry, MD</td>
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<tr>
<td>16:00-16:15</td>
<td><strong>Discussion</strong></td>
</tr>
</tbody>
</table>

### TUESDAY, NOVEMBER 12, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:15-8:30</td>
<td><strong>Guidelines on the management of flail chest and lung contusion</strong>  &lt;br&gt; Andrew R. Doben, MD</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td><strong>Guidelines on the management of mild traumatic brain injury</strong>  &lt;br&gt; Anne-Christine Duhaime, MD</td>
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<tr>
<td>8:45-9:00</td>
<td><strong>Guidelines on the prevention of DVT/PE after trauma</strong>  &lt;br&gt; Frederick Millham, MD</td>
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<tr>
<td>Time</td>
<td>Session</td>
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<tr>
<td>9:00-9:15</td>
<td>Tricks to manage complex liver injuries</td>
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<td>Comments: Timothy A. Emhoff, MD</td>
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<tr>
<td>9:15-9:30</td>
<td>Tricks to perform colostomies on obese patients</td>
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<td>Comments: Jonathan D. Gates, MD</td>
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<tr>
<td>9:30-9:45</td>
<td>Tricks to control bleeding from major bleeding vessels</td>
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<td>Comments: Tom M. Scalea, MD</td>
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<tr>
<td>9:45-10:15</td>
<td>BREAK</td>
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<tr>
<td>10:15-10:45</td>
<td>Trauma facts: Who can get it first?</td>
</tr>
<tr>
<td>10:45-11:00</td>
<td>Thromboelastography</td>
</tr>
<tr>
<td>11:00-11:15</td>
<td>Endovascular stents</td>
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<tr>
<td>11:15-11:20</td>
<td>Introduction</td>
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<tr>
<td>11:20-12:00</td>
<td>The case of a surgeon, a congressman, and 181 votes</td>
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<tr>
<td>12:00-13:00</td>
<td>LUNCH</td>
</tr>
<tr>
<td>13:00-13:10</td>
<td>Colloids vs. crystalloids</td>
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<tr>
<td>13:30-13:45</td>
<td>The debate about the management of high-grade renal lacerations</td>
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<tr>
<td>13:45-14:00</td>
<td>The debate about the management of the mangled extremity</td>
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<tr>
<td>14:00-14:15</td>
<td>The debate about antibiotic management in the ICU</td>
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<tr>
<td>14:15-14:30</td>
<td>DISCUSSIONS WITH THE AUDIENCE (WITH ARS)</td>
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<tr>
<td>14:30-15:00</td>
<td>BREAK</td>
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<tr>
<td>15:00-15:30</td>
<td>3 complex cases for debate</td>
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<tr>
<td>15:30-15:45</td>
<td>What's new in hemostatics?</td>
</tr>
<tr>
<td>15:45-16:00</td>
<td>What's new in hemodynamic monitoring?</td>
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<tr>
<td>16:00-16:15</td>
<td>What's new in biologic meshes?</td>
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<tr>
<td>16:15-16:30</td>
<td>DISCUSSIONS WITH THE AUDIENCE (WITH ARS)</td>
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<tr>
<td>16:30-16:40</td>
<td>CLOSING REMARKS</td>
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</table>
The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

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- Precourse #2: NOT certified
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- Precourse #4: 3.00 *AMA PRA Category 1 Credits™*
- Monday and Tuesday Course: 14.0 *AMA PRA Category 1 Credits™*

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Tuition:
Physicians: Monday and Tuesday $580.00 (USD)
Physicians: Monday, Tuesday with Precourse #3 and #4 $680.00 (USD)
Residents/Fellows: Monday, Tuesday $480.00 (USD)
Residents/Fellows: Monday and Tuesday with Precourse #3 and #4 $580.00 (USD)
Nurses/Allied Health: Monday and Tuesday $440.00 (USD)
Nurses/Allied Health: Monday, Tuesday with Precourse #2 or #3 and #4 $540.00 (USD)
Sunday Only: TOPIC course $100.00 (USD)

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INQUIRIES
By phone 617-384-8600, Monday–Friday, 10 AM to 4 PM (EST) or by email at: hms-cme@hms.harvard.edu.

ONLINE INFORMATION
To register or view activity information online, visit: www.cme.hms.harvard.edu/courses/CriticalCare. To ensure proper registration, please add the first three characters of the source code found at the bottom of this registration form.

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A handling fee of $60 is deducted for cancellation. Refund requests must be received by postal mail, email, or fax one week prior to this activity. No refunds will be made thereafter.

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COURSE LOCATION
All sessions for this course will be held at the Colonnade Hotel, 120 Huntington Avenue, Boston, MA (Telephone: 617-424-7000)

ACCOMMODATIONS/TRAVEL
A limited number of rooms have been reserved at The Colonnade Boston Hotel (Telephone: 617-424-7000) until October 15, 2013. Please specify that you are enrolled in this course to receive a reduced room rate of $279 per night Single/Double. Hotel arrangements can also be made online at: www.colonnadehotel.com. Please enter group code MGH07A, when making online reservations. You may also call the reservation team at 1-800-962-3030, and mention the TESSCC Symposium, to make reservations with an agent. Please do not purchase non-refundable airline ticket(s) until you have received an email from our office confirming your paid registration. For airline reservations contact 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.
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Sunday, Monday, Tuesday with precourse selection (#2, #3, #4 up to two precourses).

Physicians: $680  Residents/Fellows: $580  Nurses/Allied Health Professionals: $540

Monday and Tuesday
Physicians: $580  Residents/Fellows: $480  Nurses/Allied Health Professionals: $440

Sunday Only:  TOPIC course: $100

Please PRINT CLEARLY. All Fields Required.

First Name  MI  Last Name

Street Address  City

State/Province  Zip Code  Country

Daytime Phone  Fax Number

Email Address

☐ Please check if you want to be excluded from receiving email notices of future HMS-DCE programs. Please note: Your email address is used for critical information about the course including; registration confirmation, evaluation and certificate. Please be sure to include an email address you check daily or frequently.

Profession  Degree

Primary Specialty (Physicians Only)  Board Certified: ☐ Yes  ☐ No

Professional School Attended (Physicians Only)
☐ Harvard Medical School  ☐ U.S. Medical School  ☐ International Year of graduation

Online registrants - add the first three characters of the source code found below
Source Code: 1EM