

TIIDE PROJECT

Terrorism Injuries: Information, Dissemination and Exchange

Blast injuries present unique triage, diagnostic, and management challenges as a consequence of the blast wave from high explosive detonations. Few civilian health care providers in the United States have experience treating patients with injuries from these kinds of blasts. Currently, there exists an urgent and ongoing need to develop, disseminate and exchange information about injuries from terrorism. The Terrorism Injuries: Information, Dissemination and Exchange (TIIDE) Project was established through a cooperative agreement between the Centers for Disease Control and Prevention (CDC), Division of Injury Response, National Center for Prevention and Control and seven (7) grantees.

The seven grantees are:

- American College of Emergency Physicians
- American Medical Association
- American Trauma Society
- National Association of EMS Physicians (NAEMSP)
- National Association of EMT's (NAEMT)
- National Association of State EMS Officials (NASEMSO)
- National Native American EMS Association

The American College of Surgeons – Committee on Trauma (ACS-COT) and the State and Territorial Injury Prevention Directors Association (STIPDA) were added to the TIIDE project in 2005.

SCOPE OF WORK

The American College of Emergency Physicians (ACEP) led the process which included:

- **Conducting a literature review and web-based research to identify existing training courses**
- **Developing core competencies for traumatic injuries from terrorism training**
- **Reviewing terrorism training courses currently being presented on a national level for gaps in the training on traumatic injury care**
- **Developing a matrix of gaps in training on traumatic injuries**
- **Developing knowledge objectives for each core topic**

Representatives from the seven (7) grantee groups as well as the American Academy of Pediatrics (AAP), American College of Surgeons-Committee on Trauma (ATS-COT), American Nurses Association (ANA), Emergency Nurses Association (ENA), Society of Critical Care Medicine (SCCM) and the University of Texas Southwestern Medical Center at Dallas (UTSW) formed a task force to narrow the list of core topics for courses on blast injuries. A peer review work group was established to serve as content experts and review the overall work of the task force.

Authors were selected from content experts in the fields of emergency nursing, emergency medical services and emergency medicine to write about the following topics in the blast curriculum:

- **System Issues**
- **Scene Safety**
- **Triage**
- **Blast Injuries**
- **Crush Injuries and Compartment Syndrome**
- **Military Experience in Blast Injury Care**
- **Special Considerations**
- **Psychological Issues**

Four educational products have been developed through the TIIDE partnership. The Bombings: Injury Patterns and Care products are designed to be the minimum content that should be included in any all-hazards disaster response training program. This content is designed to update the student with the latest clinical information regarding blast related injuries from terrorism.

The one-hour curriculum was designed to be integrated into existing all-hazards disaster courses.

The three-hour curriculum was designed as a stand alone seminar. Both courses are available for download at the American College of Emergency Physicians website, www.acep.org/blastinjury. The title, "Bombings: Injury Patterns and Care" is used for both the one and three-hour courses as well as the interactive CD-ROM/ Web based course.

Development of a one-hour, self-paced, interactive CD-ROM/Web-based program began in April 2006. The one-hour PowerPoint and curriculum guide was used as the starting point for development. The course begins with an overview of blast physics, morbidity and mortality, scene safety, Personal Protective Equipment (PPE), patterns of injury, pathophysiology of blast injury and categories of blast injury. A terrorist bombing at a train station sets the scene, and four patients are followed from initial triage to on-scene care through hospital care.

The one-hour and three-hour blast PowerPoint presentations and curriculum guides with teaching points may be downloaded at www.acep.org/blastinjury. The one-hour module can be inserted into already existing disaster preparedness courses that need information on blast injuries. The three-hour seminar can be taught as a stand-alone course for those first responders who only want blast injury training. A copy of the CD may also be ordered.

The "Bombings: Injury Patterns and Care" Interactive Scenario-based Training CD-ROM is an interactive training program including sixty minutes of instruction addressing the assessment and treatment of four patients from a simulated terrorist bombing event. The interactive scenario-based training course may be downloaded or viewed on-line at www.acep.org/blastinjury. A copy of the CD may also be ordered.

A quick reference pocket guide on blast injuries and a poster were the final products developed under the TIIDE grant. To order a free copy of either of these products, contact a staff member. A pdf of the pocket guide for download is available at www.acep.org/blastinjury.

Additional information on terrorism and mass casualties can be found on the Centers for Disease Control (CDC) website at: <http://www.bt.cdc.gov/masscasualties/>.

For more information on "Bombings: Injury Patterns and Care" courses, contact the ACEP EMS and Disaster Preparedness Department at 1-800-798-1822.



Photos courtesy of Boston EMS, "Where Public Health Meets Public Safety"



Bombings: Injury Patterns and Care



BLAST INJURY

Free Training Products Available!

Bombings: Injury Patterns and Care Interactive Scenario-based Training focuses on the effects of explosive events and addresses topics ranging from scene safety to emergency department treatment. It was developed to compliment all hazards disaster response training programs and also serve as an independent training source for first responders and hospital staff.

The interactive scenario-based training includes:

- Sixty minutes of instruction
- Practice scenarios and assessment situations with feedback, used to provide context and realism
- Final exam
- Visuals of several types including photos of actual blast events with patients, photos taken specifically for the training, charts and diagrams

The interactive scenario-based training, as well as curriculum guides and PowerPoint presentations for one and three hour courses and the quick reference pocket guide are available **free of charge** at: www.acep.org/blastinjury.

