



Lessons Learned Information Sharing

www.LLIS.gov

*For response professionals,
by response professionals*

25 February

Prepared for:

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Services Foundation

Conference 2006
Boston, Massachusetts

MIPT National Memorial Institute
for the Prevention of Terrorism
Preventing terrorism or mitigating its effects



Sharing information.



Connecting experts.



Improving homeland security.



What Is *Lessons Learned Information Sharing*?

**Lessons Learned
Information Sharing**

www.LLIS.gov



The screenshot shows the homepage of the Lessons Learned Information Sharing (LLIS) website. At the top left is the Department of Homeland Security logo. The main header features the LLIS logo and the tagline "Sharing information. Connecting experts. Improving homeland security." Below the header is a navigation menu with links for HOME, ABOUT THE NETWORK, MEMBER DIRECTORY, RESOURCES, COLLABORATION, FEEDBACK, MY SETTINGS, and LOGOUT. The main content area is divided into several sections: "What's New" with a list of recent articles, "The Lessons Learned & Best Practices Directory" with categories like Emergency Disciplines, Historical Incidents, Exercises, Emergency Functions, Emergency Operations Phases, and Source Directory, "Upcoming Events and Exercises" with details for National Exercise Schedule: Three-Month Exercise (06/21/2005), Fire-Rescue International 2005, and National Association of EMS Educators (NAEMSE) 2005 Annual Meeting, and "New DHS Initiatives" with links to Archived TSPDF 3.0NN.com Video, Homeland Security Presidential Directive 2 (HSPD-2), National Response Scenario (04/01/2005), Target Capabilities List, Version 1.1 (TCL) (05/23/2005), Incident Task List, Version 2.1 (ITLL) (05/23/2005), National Preparedness Guidance (04/27/2005), and Inform National Preparedness Goal (03/31/2005). At the bottom left, there are logos for MIPT (National Homeland Incident Response Planning) and Homeland Security.

Online since April 19, 2004

Over 20,000 members

141 Best Practices

237 Lessons Learned

51 Good Stories

Over 2,300 Documents

The national online network of Lessons Learned and Best Practices for emergency response providers and homeland security officials



DHS Preparedness Directorate's Office of Grants and Training

- The Office of Grants and Training is responsible for assisting States and local jurisdictions as they prevent, protect against, respond to, and recover from terrorist attacks, major disasters, and other emergencies.



- MIPT sponsors research to discover equipment, training, and procedures that might assist first responders in preventing terrorism and responding to it.

1. Convene multi-disciplinary working group (WG)

2. Commence research & analysis; develop draft BPs

3. Convene subject-matter-specific WG for validation

4. Revise BPs based on WG comments & re-circulate

5. Publish Best Practices on *LLIS.gov*

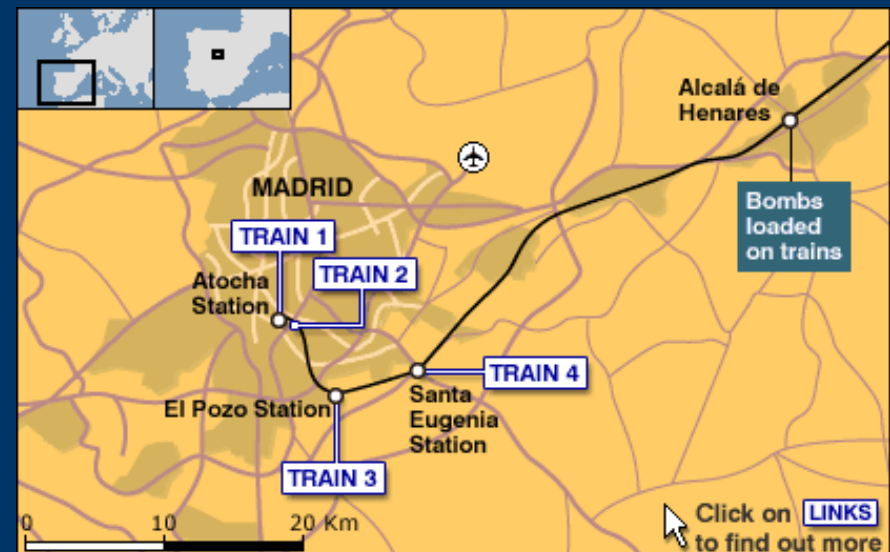
Best Practices are peer-validated techniques, procedures, good ideas, or solutions that work and are solidly grounded upon actual experience in operations, training, and exercises.

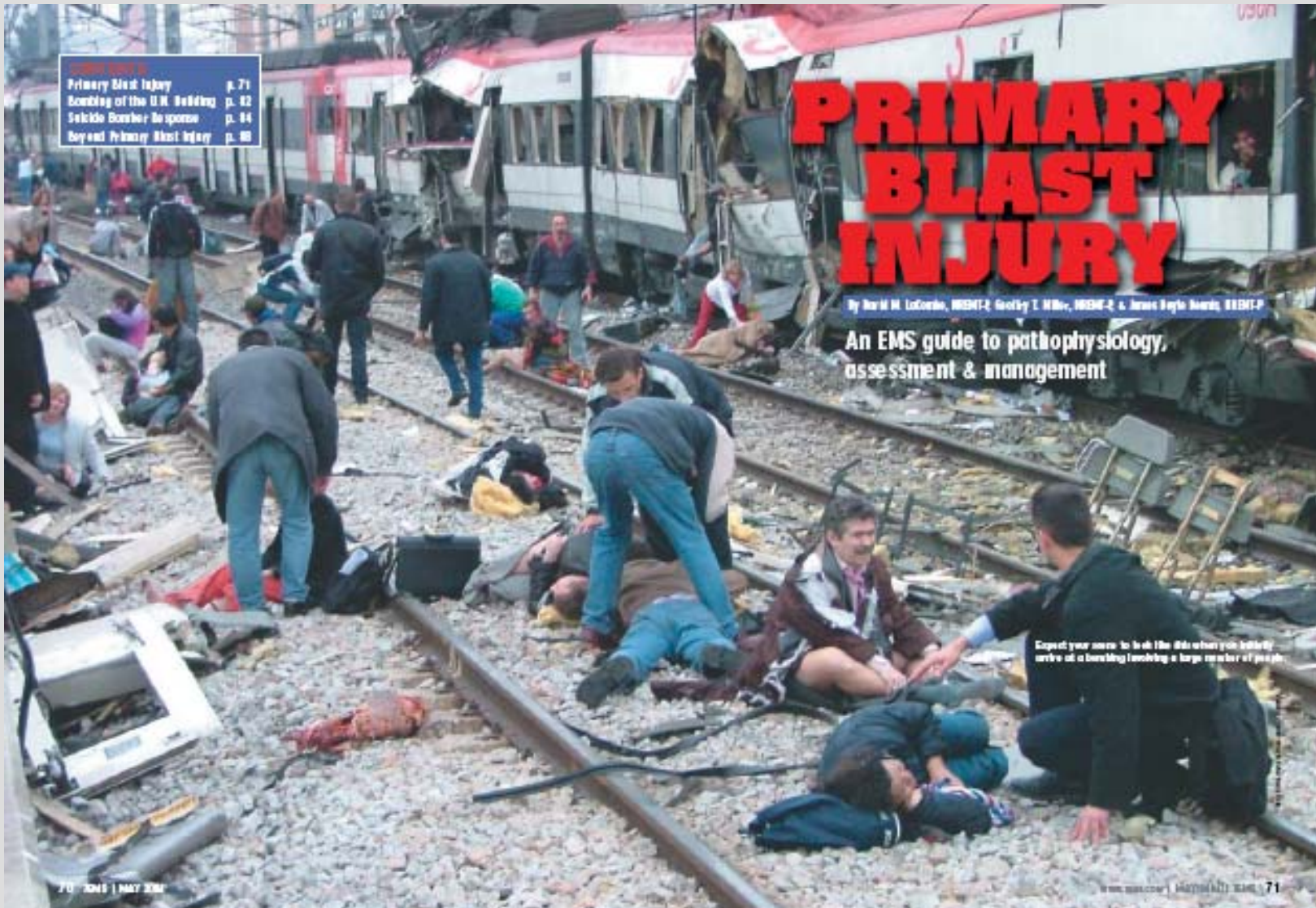
A Lesson Learned is knowledge and experience—positive or negative—derived from actual incidents such as the March 11, 2004, Madrid Train Bombings and the 9/11 attacks as well as observations and historical studies of operations, training, and exercises.

- **Secondary Attacks: Failure to Perform Adequate Site Inspection Procedures**
(HLS Special Assessment: Lessons Learned from the Madrid Train Bombings, 2004)
- **Hostile Situations: Increasing Protection for Emergency Medical Personnel**
(Wanton Violence at Columbine High School: A Special Report, April 1999)

Lessons Learned: The Madrid Train Bombings

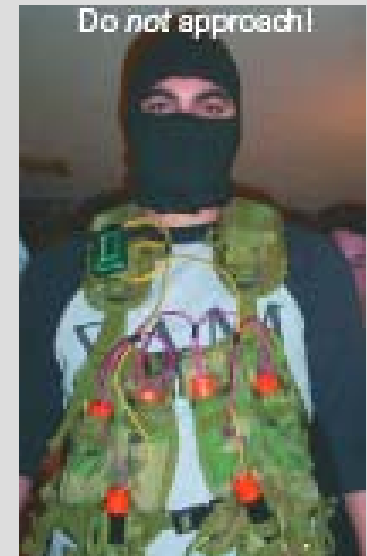
- 13 Improvised Explosive Devices
- 4 trains
- 191 fatalities
- Over 1,800 injured





Source: LLIS.gov Library. Journal of Emergency Medical Services (JEMS)

- American EMS has limited experience treating blast victims
- Pattern of global attacks suggests that bombings and suicide bombings could threaten the homeland in future:
 - Months after 9/11, Director of the FBI, Robert Mueller, stated that suicide bombings in US are a matter of “when” rather than “if”
- Blast characteristics
 - Detonation velocity between 3,300fps and 29,900fps
 - Can often result in pressure wave approaching 700 tons PSI



▪ 3 Categories of Injury

1. *Primary Blast Injury*: Caused by sudden change in atmospheric pressure
 - Most likely to affect ears, lungs, bowels, CNS, and CV system
2. *Secondary Blast Injury*: Results in penetrating trauma from shrapnel and other debris
3. *Tertiary Blast Injury*: Occurs when a victim's body is thrown by the blast wave



■ Treatment

- Scene Safety: Beware of secondary devices
- Triage according to protocol
- Manage airway
- Provide high-concentration oxygen
- Prepare to treat for hypotension caused by:
 1. Serious blood loss
 2. Gas embolism or tension pneumothorax
 3. Vagal reflexes

Good Stories are exemplary, but non-peer-validated, initiatives implemented by various jurisdictions that have shown success in their specific environments and that may provide useful information to other communities and organizations

- **Louisville, Kentucky's Joint Emergency Services Unit**
- **Illinois' Radio Authentication Matrices: Ensuring Radio Security**
- **Seattle Fire Department's Computer Assisted Dispatch System**

- **Joint Emergency Services Unit**

- Designed to respond to:

- Major biological, chemical, or radiological incidents; and
 - An event in which a medical response is required in an unsecured or HazMat environment
 - Quarantine
 - Crystal Meth Lab



Katrina Lessons Learned



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HOME ABOUT THE NETWORK MEMBER DIRECTORY RESOURCES COLLABORATION FEEDBACK MY SETTINGS LOGOUT

Hurricane Katrina and LLIS.gov

In response to the recent Hurricane Katrina disaster, LLIS.gov has gathered Lessons Learned, Best Practices, after-action reports, and other documents related to disaster recovery. In addition, users have the opportunity to post their questions, comments, and insights on the disaster to the [Hurricane Katrina message board](#).

Please Note: LLIS.gov members can now contribute to their own Hurricane Katrina message board. This message board can be found [here](#).

LLIS.gov is beginning the process of collecting input from the emergency response and homeland security communities on the Hurricane Katrina disaster. These comments, experiences, and observations will assist in the development of Lessons Learned. Information on all phases of the disaster, including response and recovery operations, and all emergency response functions, such as search and rescue, communications, and law enforcement operations, are encouraged. Whether it is the receiving of displaced residents, or the sending of personnel and resources to the gulf coast, jurisdictions across the nation have been affected by Hurricane Katrina, and LLIS.gov would like your comments, experiences, and observations on the disaster.

Please use the links below to submit Lessons Learned, reports, and other documents or email us your comments, observations, and experiences at Katrina@llis.llis.gov.

- [Submit a Lesson Learned](#)
- [Submit reports or other documents](#)
- [Email your comments, experiences, and observations to \[Katrina@llis.llis.gov\]\(mailto:Katrina@llis.llis.gov\)](#)

Additionally, LLIS.gov is interested in your experience related to Hurricane Rita. Please use the links below to submit Lessons Learned, reports, and other documents or email us your comments, observations, and experiences at Rita@llis.llis.gov.

- [Submit a Lesson Learned](#)
- [Submit reports or other documents](#)
- [Email your comments, experiences, and observations to \[Rita@llis.llis.gov\]\(mailto:Rita@llis.llis.gov\)](#)

- **LLIS.gov** has examined information sharing successes and failures during hurricane response and recovery operations
 - Topics include: wireless connectivity systems; mutual aid communication plans; and information sharing drills
- **LLIS.gov** has created lessons learned based on user submissions relevant to Hurricane Katrina
 - Topics include: hospital surge capacity; Strategic National Stockpile distribution; and disaster literature dissemination

On 9 September 2005 LLIS.gov posted a special Hurricane Katrina page highlighting useful documents for the emergency response and recovery communities

Disaster Medical Assistance Teams

- National Disaster Medical System (NDMS)
- A DMAT is a group of professional medical personnel (supported by a cadre of logistical and administrative staff) designed to provide medical care during a disaster or other event



■ DMAT Lessons Learned

- Equip teams with motorized patient transport equipment
- Provide teams with automated pharmaceutical labeling system
- Tailor supply caches, prior to shipping, to meet specific mission requirements



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