

## Hospital Mass Casualty Incident Planning Resources

**Purpose:** To assist hospitals in assessing, updating or developing plans for response to a significant surge event by providing a list of resources for consideration.

**Overview:** A Mass Casualty Incident (MCI) is a significant event or set of circumstances that impact the healthcare system resulting in the demand for care exceeding capacity and/or capability.

This guidance provides planning recommendations for mass casualty incidents (MCI) as related to hospital and health care facility emergency preparedness planning in the United States. The guidance is for public and private health personnel who are involved in emergency management, disaster preparedness, planning, response, mitigation, protection and/or recovery. This guidance is based upon current knowledge regarding MCIs and may be updated as needed.

Hospitals may view surge capacity as the ability to quickly expand normal services in response to a sharp increase in demand for medical care of arriving patients. Medical surge response includes having the capacity for:

- An incident command system for crisis management.
- Potential patient beds or available space in which patients may be triaged, managed, decontaminated, and/or sheltered.
- Available personnel of all types.
- Necessary equipment and supplies, medications, and patient care items.
- Evaluation and critique of response.

For planning purposes, hospitals should assume the incident may overwhelm existing resources.

The following are links to resource tools helpful in developing and augmenting hospital plans for Mass Casualty Incidents.

## Hospital Surge Planning Resources

### Private Sector

1. Accrediting Organizations
  - a. The Joint Commission
    - i. Surge Hospitals: Providing Safe Care in Emergencies (The Joint Commission 2006) [www.jointcommission.org/assets/1/18/surge\\_hospital.pdf](http://www.jointcommission.org/assets/1/18/surge_hospital.pdf)
    - ii. Standing Together: An Emergency Planning Guide for America's Communities [http://www.jointcommission.org/assets/1/18/planning\\_guide.pdf](http://www.jointcommission.org/assets/1/18/planning_guide.pdf)
2. Academic Institutions/Publications

## Hospital Mass Casualty Incident Planning Resources

- a. The Society for Academic Emergency Medicine
  - i. Academic Emergency Medicine 13 (11), pages 1087 - 1253. [All Surge Articles]  
<http://onlinelibrary.wiley.com/doi/10.1197/acem.2006.13.issue-11/issuetoc>

### 3. Hospital/Healthcare System

- a. California Hospital Association
  - i. EMTALA Requirements and Options for Hospitals in a Disaster  
<http://www.calhospitalprepare.org/document/centers-medicare-medicaid-services-cms>
- b. King County Hospital Center, King County, WA
  - i. Emergency Management Plan for Mass Casualty Incidents  
[http://www.downstate.edu/emergency\\_medicine/pdf/KCHCSection03.pdf](http://www.downstate.edu/emergency_medicine/pdf/KCHCSection03.pdf)

## State

1. Florida Department of Health
  - a. Bureau of Preparedness and Response
    - i. Alternative Medical Treatment Site plan  
<http://www.doh.state.fl.us/demo/bpr/PDFs/AMTSPan2008.pdf>
    - ii. Resources on vulnerable populations, including a communication tool kit and county specific data  
<http://www.doh.state.fl.us/DEMO/bpr/VulnerablePopulations.html>
    - iii. Creating a County Crisis and Emergency Risk Communications (CERC) Annex  
<http://www.doh.state.fl.us/demo/bpr/PDFs/CountyCERC-GuidanceDocREVISEDJune292010.pdf>

## Federal

1. U.S. Department of Health and Human Services
  - a. Agency for Healthcare Research and Quality (AHRQ)
    - i. AHRQ Hospital Surge Model <http://archive.ahrq.gov/prep/hospsurgemodel>
  - b. Office of the Assistant Secretary for Preparedness and Response (ASPR)
    - i. Medical Surge Capacity and Capability: A Management System for Integrating Medical and Health Resources During Large-Scale Emergencies  
[www.ncdhhs.gov/dhsr/EMS/aspr/pdf/mscc.pdf](http://www.ncdhhs.gov/dhsr/EMS/aspr/pdf/mscc.pdf)
2. U.S. Department of Homeland Security
  - a. Federal Emergency Management Agency
    - i. Comprehensive Preparedness Guide (CPG 101).  
[http://www.fema.gov/pdf/about/divisions/npd/CPG\\_101\\_V2.pdf](http://www.fema.gov/pdf/about/divisions/npd/CPG_101_V2.pdf)

## Hospital Mass Casualty Incident Planning Resources

- ii. Homeland Security Exercise and Evaluation Program (HSEEP)  
[https://hseep.dhs.gov/pages/1001\\_HSEEP7.aspx](https://hseep.dhs.gov/pages/1001_HSEEP7.aspx)

### Prioritizing Resources and Care during a Surge Event

#### Private Sector

1. Academic Institutions/Publications
  - a. CHEST
    - i. CHEST Definitive Care for the Critically Ill During a Disaster, May 2008  
[http://chestjournal.chestpubs.org/content/133/5\\_suppl](http://chestjournal.chestpubs.org/content/133/5_suppl)

#### State

1. Florida Department of Health
  - a. Bureau of Preparedness and Response (BPR)
    - i. Triage: Florida's Pre-Hospital Triage Strategy  
[www.doh.state.fl.us/demo/BPR/PDFs/TriageReport2008.pdf](http://www.doh.state.fl.us/demo/BPR/PDFs/TriageReport2008.pdf)

#### Federal

1. Institute of Medicine (IOM)
  - a. IOM Guidance for Establishing Crisis Standards of Care for Use in Disaster Situations:  
[www.iom.edu/~media/Files/Report%20Files/2009/DisasterCareStandards/Standards%20of%20Care%20report%20brief%20FINAL.pdf](http://www.iom.edu/~media/Files/Report%20Files/2009/DisasterCareStandards/Standards%20of%20Care%20report%20brief%20FINAL.pdf)

### Hospital Pediatric Preparedness Resources

#### Private Sector

1. Hospital/Healthcare System
  - a. Children's Hospital Los Angeles
    - i. Pediatric Disaster Resource and Training Center [www.chladisastercenter.org](http://www.chladisastercenter.org)

#### State

1. Florida Department of Health
  - a. Bureau of Preparedness and Response
    - i. Children's Disaster Preparedness  
<http://www.doh.state.fl.us/demo/BPR/childrensdisasterpreparedness.html>
    - ii. Special Interest Resources – Pediatric Preparedness Resources (bottom of page) [http://www.doh.state.fl.us/demo/BPR/Preparedness\\_Tools.html](http://www.doh.state.fl.us/demo/BPR/Preparedness_Tools.html)
    - iii. Vulnerable Populations  
<http://www.doh.state.fl.us/demo/BPR/VulnerablePopulations.html>

## Hospital Mass Casualty Incident Planning Resources

- iv. Children with Special Health Care Needs  
<http://www.doh.state.fl.us/demo/BPR/PDFs/VPCMS.pdf>

### 2. County of Los Angeles

#### a. Los Angeles County Department of Public Health

- i. Pediatric Surge Pocket Guide  
[www.lapublichealth.org/eprp/docs/Emergency%20Plans/Pediatric%20Surge%20Pocket%20Guide.pdf](http://www.lapublichealth.org/eprp/docs/Emergency%20Plans/Pediatric%20Surge%20Pocket%20Guide.pdf)

### 3. NYC Health

#### a. Centers for Bioterrorism Preparedness Planning (CBPP) Pediatric Task Force

- i. Hospital Guidelines for Pediatric Preparedness  
[www.nyc.gov/html/doh/downloads/pdf/bhpp/hepp-peds-childrenindisasters-010709.pdf](http://www.nyc.gov/html/doh/downloads/pdf/bhpp/hepp-peds-childrenindisasters-010709.pdf)

## Federal

### 1. U.S. Department of Health and Human Services

#### a. Agency for Healthcare Research and Quality (AHRQ)

- i. AHRQ Pediatric Hospital Surge Capacity in Public Health Emergencies  
<http://archive.ahrq.gov/prep/pedhospital>

## Mass Fatality Resources

### State

### 1. Florida Department of Law Enforcement

#### a. Medical Examiners Commission

- i. Florida's Mass Fatality Plan May 2010:  
[http://femors.org/docs/Florida\\_Mass\\_Fatality\\_Plan2010Ver2\\_May2010.pdf](http://femors.org/docs/Florida_Mass_Fatality_Plan2010Ver2_May2010.pdf)
- ii. Healthcare Facility Mass Fatality Plan:  
[http://femors.org/docs/Health\\_Care\\_Facility\\_Fatality\\_Management\\_Plan\\_Template\\_Checklist2011.pdf](http://femors.org/docs/Health_Care_Facility_Fatality_Management_Plan_Template_Checklist2011.pdf)

## Pandemic Influenza Planning Resources

### Private Sector

### 1. Hospital/Healthcare System

#### a. California Hospital Association

- i. H1N1 Checklist

<http://www.calhospitalprepare.org/post/hospital-h1n1-seasonal-influenza-checklist>Federal

### 1. U.S. Department of Health and Human Services

## Hospital Mass Casualty Incident Planning Resources

- a. Centers for Disease Control and Prevention (CDC)
  - i. Hospital Pandemic Influenza Planning Checklist  
[www.flu.gov/professional/hospital/hospitalchecklist.html](http://www.flu.gov/professional/hospital/hospitalchecklist.html)
2. U.S. Department of Labor
  - a. Occupational Safety and Health Administration
    - i. Pandemic Influenza Preparedness and Response Guidance for Healthcare Workers and Healthcare Employees (OSHA 2009)  
[www.osha.gov/Publications/OSHA\\_pandemic\\_health.pdf](http://www.osha.gov/Publications/OSHA_pandemic_health.pdf)

## Planning Checklists

### Private Sector

1. Academic Institutions/Publications/Professional Organizations
  - a. Association for Professionals in Infection Control and Epidemiology, Inc.
    - i. Mass Casualties Disaster Plan Checklist  
<http://www.bioterrorism.slu.edu/bt/quick/disasterplan.pdf>
2. Hospital/Healthcare System
  - a. California Hospital Association
    - i. Hospital Emergency Management Program Checklist  
<http://www.calhospitalprepare.org/post/hospital-emergency-management-program-checklist-0>

### State

2. Florida Department of Health
  - a. Bureau of Preparedness and Response
    - i. Hospital Medical Surge Planning Checklist (Insert hyperlink once posted).

## Incident Specific Information

### Federal

1. U.S. Department of Health and Human Services
  - a. Centers for Disease Control and Prevention (CDC)
    - i. In a Moment's Notice: Surge Capacity in Terrorist Bombings  
<http://www.bt.cdc.gov/masscasualties/surgecapacity.asp>
    - ii. Interim Planning Guidance and Preparedness and Response to a Mass casualty incident Resulting from Terrorist Use of Explosives  
[http://www.bt.cdc.gov/masscasualties/terrorist\\_explosives.asp](http://www.bt.cdc.gov/masscasualties/terrorist_explosives.asp)

## Hospital Mass Casualty Incident Planning Resources

- iii. Mass Casualty Event Preparedness and Response  
<http://www.bt.cdc.gov/masscasualties/>
- b. Office of the Assistant Secretary for Preparedness and Response (ASPR)
  - i. State and Local Planners Playbook for Medical Response to a Nuclear Detonation  
<http://www.phe.gov/Preparedness/planning/playbooks/Stateandlocal/nuclear/Pages/default.aspx>

### Standards and Statutes

#### Private Sector

1. Academic Institutions/Publications/Professional Organizations
  - a. National Fire Protection Association
    - i. NFPA 1600 - Standard on Disaster/Emergency Management and Business Continuity Programs, 2010 Edition.  
<http://www.nfpa.org/assets/files//PDF/NFPA16002010.pdf>

#### State

1. State of Florida
  - a. Florida Statutes Section 395.1055  
[http://www.leg.state.fl.us/Statutes/index.cfm?App\\_mode=Display\\_Statute&Search\\_String=&URL=0300-0399/0395/Sections/0395.1055.html](http://www.leg.state.fl.us/Statutes/index.cfm?App_mode=Display_Statute&Search_String=&URL=0300-0399/0395/Sections/0395.1055.html)
  - b. Florida Statutes Chapter 252  
[http://www.leg.state.fl.us/Statutes/index.cfm?App\\_mode=Display\\_Statute&URL=0200-0299/0252/0252ContentsIndex.html&StatuteYear=2011&Title=-%3E2011-%3EChapter%20252](http://www.leg.state.fl.us/Statutes/index.cfm?App_mode=Display_Statute&URL=0200-0299/0252/0252ContentsIndex.html&StatuteYear=2011&Title=-%3E2011-%3EChapter%20252)
2. Agency for Health Care Administration
  - a. Emergency Management Planning Criteria  
[http://ahca.myflorida.com/MCHQ/Health\\_Facility\\_Regulation/Hospital\\_Outpatient/forms/HOSP\\_CEMP\\_Reconstructed\\_122104.pdf](http://ahca.myflorida.com/MCHQ/Health_Facility_Regulation/Hospital_Outpatient/forms/HOSP_CEMP_Reconstructed_122104.pdf)

#### Federal

1. U.S. Department of Health and Human Services
  - a. Office of Civil Rights
    - i. Health Insurance Portability and Accountability Act of 1996 (HIPAA) Privacy and Security Rules <http://www.hhs.gov/ocr/privacy/index.html>
    - ii. HIPAA Privacy Rule: Disclosures for Emergency Preparedness - A Decision Tool  
<http://www.hhs.gov/ocr/privacy/hipaa/understanding/special/emergency/decisiontoolintro.html>

## Hospital Mass Casualty Incident Planning Resources

- iii. Frequently Asked Question: HIPAA waiver during a national or public health emergency  
[http://www.hhs.gov/ocr/privacy/hipaa/faq/disclosures\\_in\\_emergency\\_situations/1068.html](http://www.hhs.gov/ocr/privacy/hipaa/faq/disclosures_in_emergency_situations/1068.html)
  - b. Centers for Disease Control and Prevention (CDC)
    - i. Public Health Preparedness Capabilities: National Standards for State and Local Planning <http://www.cdc.gov/phpr/capabilities>
  - c. Office of the Assistant Secretary for Preparedness and Response
    - i. Pandemic and All Hazards Preparedness Act  
<http://www.phe.gov/preparedness/legal/pahpa/pages/default.aspx>
  - d. Centers for Medicare and Medicaid Services (CMS)
    - i. Emergency Medical Treatment & Labor Act (EMTALA)  
<http://www.cms.gov/Regulations-and-Guidance/Legislation/EMTALA/index.html?redirect=/EMTALA/>
2. U.S. Department of Homeland Security
    - a. Federal Emergency Management Agency
      - i. Robert T. Stafford Disaster Relief and Emergency Assistance Act  
<http://www.fema.gov/robert-t-stafford-disaster-relief-and-emergency-assistance-act-public-law-93-288-amended>

### Situational Awareness Information

#### Private

1. The Weather Channel  
<http://www.weather.com/newscenter/alerts/national/severeWxAlertsNational.html>

#### State

1. Florida Department of Health
  - a. Bureau of Preparedness and Response
    - i. Florida Department of Health Emergency Notification System (FDENS)  
<http://www.flhan.com/>
  - b. Bureau of Epidemiology website
    - i. Acute Disease Epidemiology Surveillance, Reporting, and Investigations  
[http://www.doh.state.fl.us/disease\\_ctrl/epi/Acute/index.html](http://www.doh.state.fl.us/disease_ctrl/epi/Acute/index.html)
    - ii. Epicom [http://www.doh.state.fl.us/disease\\_ctrl/epi/Acute/systems.html#EpiCom](http://www.doh.state.fl.us/disease_ctrl/epi/Acute/systems.html#EpiCom)

#### Federal

1. U.S. Department of Health and Human Services

## Hospital Mass Casualty Incident Planning Resources

- a. Centers for Disease Control and Prevention (CDC)
  - i. Health Alert Network (HAN) <http://emergency.cdc.gov/han/>
2. U.S. Department of Homeland Security
  - a. Federal Emergency Management Agency
    - i. National Terrorism Advisory System (NTAS) <http://www.dhs.gov/files/programs/ntas.shtm>
    - ii. Homeland Security Information Network (HSIN) [https://auth.hsin.gov/opensso/UI/Login?service=HSINCustomGOV&goto=https%3A%2F%2Fgovernment.hsin.gov%3A443%2Fsites%2FCore%2FLibrary\\_1%2FSIN+Training+Page-QRC-HSIN\\_Basin\\_QRC.pdf](https://auth.hsin.gov/opensso/UI/Login?service=HSINCustomGOV&goto=https%3A%2F%2Fgovernment.hsin.gov%3A443%2Fsites%2FCore%2FLibrary_1%2FSIN+Training+Page-QRC-HSIN_Basin_QRC.pdf)
3. National Oceanic and Atmospheric Administration (NOAA)
  - a. National Weather Service <http://www.weather.gov/>
  - b. National Hurricane Center <http://www.nhc.noaa.gov/>
  - c. Sea, Lake and Overland Surges from Hurricanes (SLOSH) models <http://www.nhc.noaa.gov/prepare/hazards.php>

## Triage Methods

### Private Sector

1. Academic Institutions/Publications
  - a. Continuous Integrated Triage (CIT) <http://www.deep.med.miami.edu/x493.xml>
  - b. Sacco Triage Method (STM) [http://www.sharptinkers.com/STM\\_Site/stm\\_home.htm](http://www.sharptinkers.com/STM_Site/stm_home.htm)

### Federal

1. U.S. Department of Health and Human Services
  - a. Radiation Emergency Medical Management
    - i. SALT (Sort, Assess, Life-Saving Interventions, Treatment/Transport) <http://www.remm.nlm.gov/saltriage.htm>

## Internet Resources

### Private Sector

1. Accrediting Organizations
  - a. The Joint Commission <http://www.jointcommission.org/>
  - b. DNV North America [http://www.dnvusa.com/focus/hospital\\_accreditation/](http://www.dnvusa.com/focus/hospital_accreditation/)
  - c. American Osteopathic Association <http://www.osteopathic.org/inside-aoa/accreditation/Pages/default.aspx>

## Hospital Mass Casualty Incident Planning Resources

- i. Healthcare Facilities Accreditation Program <http://www.hfap.org/>

### State

1. Agency for Health Care Administration
  - a. Emergency Status System (ESS) <http://ess.myflorida.com/>
2. Florida Department of Health
  - a. Bureau of Preparedness and Response
    - i. Hospital Preparedness webpage  
[www.doh.state.fl.us/demo/BPR/hospprepared.html](http://www.doh.state.fl.us/demo/BPR/hospprepared.html)
    - ii. Training calendar  
<http://calendar.doh.state.fl.us/main.php?calendar=PrepResponse>
    - iii. Hospital Preparedness Program Information Sharing Webinars  
[http://www.doh.state.fl.us/demo/BPR/Hospital\\_Webinars.html](http://www.doh.state.fl.us/demo/BPR/Hospital_Webinars.html)
    - iv. Florida Medical Reserve Corps Network  
[http://www.doh.state.fl.us/PHNursing/MRC/MRC\\_Main.html](http://www.doh.state.fl.us/PHNursing/MRC/MRC_Main.html)
  - b. County Health Department contact information <http://www.doh.state.fl.us/chdsitelist.htm>
3. Florida Department of Law Enforcement
  - a. Regional Domestic Security Task Force contacts  
<http://www.fdle.state.fl.us/Content/getdoc/a3339d31-ad4d-426c-aa9d-9420662320d1/Domestic-Security-Regional-Contacts.aspx>
  - b. BusinessSafe <http://www.fdle.state.fl.us/Content/getdoc/fdebe58e-54e5-47a6-957d-f0d48de2b726/BusinessSafe-Home.aspx>
4. Florida Division of Emergency Management  
<http://www.floridadisaster.org/eoc/Update/Home.asp>
5. Florida Department of Education <http://www.fldoe.org/default.asp>
6. Other
  - a. California Emergency Medical Services Authority
    - i. Hospital Incident Command System (HICS) <http://www.emsa.ca.gov/hics/>

### Federal

1. U.S. Department of Health and Human Services
  - a. Office of the Assistant Secretary for Preparedness and Response
    - i. Emergency System for Advance Registration of Volunteer Health Professionals (ESAR-VHP) <http://www.phe.gov/esarvhp/pages/default.aspx>
2. U.S. Department of Homeland Security

## Hospital Mass Casualty Incident Planning Resources

- a. Federal Emergency Management Agency
  - i. National Incident Management System <http://www.fema.gov/emergency/nims/>
  - ii. Emergency Management Institute <http://training.fema.gov/IS/>
  - iii. Ready.gov <http://www.ready.gov/>
  - iv. Lessons Learned Information Sharing website <https://www.llis.dhs.gov/index.do>
3. U.S. Department of Labor
  - a. Occupational Safety and Health Administration
    - i. OSHA Publications – Emergency Preparedness and Response <http://www.osha.gov/pls/publications/publication.athruz?pType=Industry&pID=75>