Fifteen Minutes ‘til 50 Patients — Rapid Response to Mass Casualty Incidents

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“15 `til 50” MCI Response Plan

Executive Briefing

Objectives

- Describe the “15 `til 50” Mass Casualty Incident (MCI) Response Methodology
- Demonstrate how to implement “15 `til 50” in any facility
- Identify “15 `til 50” Toolkit Resources
What is 15 ‘til 50?

- Program designed to enable hospital staff to receive a surge of 50 or more patients within 15 minutes of notification of an MCI
- Rapid deployment of staff, supplies, and equipment
- Process initiated using existing supplies and equipment
- The 15 ‘til 50 model has been developed, tested, and modified over the past 10 years
Overview

Disaster Response Solution “15 ‘til 50…”
- Rapid deployment
- Designated response
- Vetted through over 30 exercises and actual events
- Plug-and-play model
- Implemented in 10 southern California hospitals and counting
Gap Analysis
> 50% Gap

Respondents identified the following gaps:

- Lack of MCI training programs for emergency department (ED) staff and physicians
- Lack of MCI training programs for ancillary/support department staff
- Inability to manage 50 patients in 15 minutes
- Lack of triggers for numerous operations and responses
- No plans for family information center activation
- Lack of standing medication orders for disaster response
Event Occurs

Initiation

Emergency Department Code TRIAGE Response
Job Action Sheet/Checklist
Role: ED Charge Nurse

- ED notified via MAC/ReddiNet
- Notify House Supervisor
- House Supervisor will initiate Code TRIAGE with PBX
- ED Charge Nurse/Nurse Manager to assign staff for response
- Distribute Treatment Area assignment tool boxes
- ED staff to establish External Treatment Area
- ED staff to establish Minor Treatment Area

(Continued on next slide)
Initiation (cont.)
Job Action Sheet/Checklist continued from previous slide

- Don Personal Protective Equipment (PPE)
- Internal ED Charge Nurse to clear out existing patients to receive “NEW” victims
  - Establish “Mini Inpatient Units” in department
  - Assign responding inpatient RNs to staff mini units
- Turn on handheld radio and conduct radio check(s)
- Update MAC and Incident Command as new info is received

Initial Activities

- Roles assigned
- Triage (internal) closed
- FT emptied into waiting room
- Patients processed for discharge or admit
- Floor RNs/CNAs come for immediate admissions
- Consolidate remaining patients
- Count of available beds to Disaster Lead
- Emergency Department doors secured
Set-up Begins
Set-up Continues

Ambulance Drop-Off  Traffic Control

Set-up Complete

Delayed  Immediate
Set-up Complete (cont.)

Minor Treatment Area

- 10–20 gurneys to staging
- 10–20 wheelchairs to staging
- Shower trailer moved & set-up
- Set-up cots
- Set-up canopies
- Signs posted

Set-up Complete (cont.)

- Supply carts out
- 20 IV lines ready
- 20 oxygen tanks ready
- PPE donned
- Treatment area teams ready
- Radio checks
Roles — Hospital Command Center

- Hospital Command Center activated and coordinates
  - Equipment
  - Personnel and labor pool
  - Ancillary support services
  - Patient flow into hospital departments
- Communicates with Disaster Lead and all Departments

Simultaneous to set-up, within the first 15 minutes
Roles — Treatment Areas

Emergency Department Staff
- Disaster Lead (External) – RN
- Charge (Internal) – RN
- Set up & Decon – Techs/CCTs
- Triage – RN
- Minor Treatment Area Team
  - 2 RNs + MD + Registrar + RT
- Immediate Treatment Area Team
  - 2 RNs + MD + Reg + RT
- Delayed Treatment Area Team
  - 2 RNs + MD + Reg + RT

Roles — Inpatient Units

- ICU/Tele/Med-Surge
  - Safe patient hand-off
  - Two RN’s from each unit report to Emergency Department Lead
  - Facilitate patient flow
  - Set-up
Roles — Pharmacy & Radiology

Pharmacy
- Pre-stocked Med Carts
- Deploy to
  - Immediate/Delayed Treatment Area
  - Minor Treatment Area
- Pharmacy Tech to ED

Radiology
- Deploy to Treatment Areas
- C-Arm
- Portable X-Ray
- PACS Carts

Roles — Case Managers

- Increase bed surge capacity to accommodate an influx of patients resulting from MCI
- Coordinate discharge of patients
- Establish a patient discharge area
- Coordinate activities to expedite discharge including transportation
- Assist the Family Information Center
- Provide PsySTART assessments
Roles — Public Safety

- Facility lockdown
- Access control
- Traffic control
- Crowd control
- Ongoing/PD assist

Roles — Facilities/Plant Operations

- Immediate facilities structure evaluation
- Immediate systems check (True assessment = 1.5-2 hours)
- Check structural integrity
- Report findings to HCC
- Deputize on-site construction personnel to assist
- Assist with decontamination
- Assist with infection control
- Assist with patient transport
- Assist as runners
- Ensure utilities are viable
Triage and treat patients as they arrive

“15 `til 50…” Toolkit
15 ‘til 50 MCI Toolkit
- Comprehensive suite of resources to implement 15 ‘til 50
  - Guide
  - Plan Template
  - Videos
  - And more
- Use existing supplies so cost is minimal

Toolkit Resources
- MCI Guide and Template
- Multimedia library
- Toolkit Library
  - Creating buy in
  - Sample exercise materials
  - Training material
  - Sample maps & forms
  - Much more
MCI Plan Template
The Plan Template provides an easy-to-populate document that can be used to create a MCI Plan for your facility.
MCI Guide

The Guide provides a comprehensive explanation of the 15 ‘til 50 model. It offers a step-by-step walkthrough for developing a 15 ‘til 50 Program
**Roles in “15 `til 50”**

**Appendix H: How Is Each Department Involved In 15 `til 50?**

The 15 `til 50 model emphasizes the strong role that ancillary and support departments play in a mass casualty incident. The table below lists various departments within hospitals, their role during a 15 `til 50 MCI, staff, supplies, and role within MCI.

<table>
<thead>
<tr>
<th>Department</th>
<th>Staff</th>
<th>Supplies</th>
<th>MCI Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral Health</td>
<td>Provide Py/STWY services in the Triage and Treatment Area</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Blood Bank</td>
<td>Blood Bank Triage on duty or as requested</td>
<td>Blood Products</td>
<td>N/A</td>
</tr>
<tr>
<td>Case Management</td>
<td>Case managers on duty</td>
<td>Photos Labors and Supplies for the ICU</td>
<td>N/A</td>
</tr>
<tr>
<td>Central Supply/Stock</td>
<td>Staff on duty or as requested</td>
<td>Per-reqisted</td>
<td>N/A</td>
</tr>
<tr>
<td>Clinical Services</td>
<td>Staff on duty or on call</td>
<td>Logistics and Planning Materials</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Multimedia**

**MCI Multimedia**

MCI Multimedia connects the user to all media files (photos, video and audio) relating to 15 `til 50 MCI planning.
Toolkit Library

Supplemental materials to aid with the design and implementation of the 15 ‘til 50 program, including:

- Train the trainer program
- Health care responder training program
- Presentation material
- Patient care forms
- Job Action Sheets
- Sample plans
- Executive briefing materials
- Maps

Toolkit Available Resources

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Thank You!

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