

15 'TIL 50 HOSPITAL MASS CASUALTY INCIDENT (MCI) RESPONSE STRATEGY



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Terry L. Schenk
Florida Department of Health

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DISASTER STUDIES APPLICATION

- Amtrak Train Derailment NE FL
- Nearest hospital was a small rural facility
- 146 patients
- Local hospital overwhelmed and eight counties responded with ambulances



A total of 416 emergency responders from 21 agencies took part in the response. Ambulances from eight Florida locations and six medical facilities arrived on-scene as the accident unfolded and transported injured passengers to eight area hospitals. Before the emergency was over, emergency responders performed serious triage. Triage and load size estimates require tactical emergency response with the passengers and provided security and traffic control at the accident scene until the derailed train was cleared from the track on April 23.

Amtrak Train Derailment - Concord, FL, Florida

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SUPPLIES AND EQUIPMENT



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WELCOME & INTRODUCTION

Terry Schenk, M.D., CEM
Medical Surge Projects Coordinator
Florida Department of Health
Bureau of Preparedness & Response



- Not a clinician but rather an Emergency Management specialist
- Concept conceived and developed in California by Chris Riccardi of Children's Hospital of Orange County, CA
- Contracted with Chris for webinars and now live exercises
- Today's program is an introduction to the 15 'til 50 (notification to ability to accept 50 patients with 15 minutes notice) Strategy

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DISASTER STUDIES APPLICATION

- Disaster studies: 80% of victims will self transport to the **CLOSEST** medical facility
- Of that 80% only 20% will be admitted
- 20% left at the scene will be transported by EMS
- Of that 20%, 80% will be admitted
- Trauma centers may be overwhelmed which means smaller hospitals may have to deal with major injury patients



Lesson from both incidents: Every sized facility needs to be ready for an MCI and care needs to be taken to not be overwhelmed by GREEN or MINOR category patients.

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LAYOUT

- Need to pre-designate layout
- Key is to facilitate triage and flow of patients
- Layout maps should be created and stored with the supplies cache for quick reference
- Minor treatment area should be somewhat separated from immediate & delayed areas
- Cots are only needed for immediate & delayed areas - chairs can be used for the minor area
- Safety should be a primary goal in layout



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BACKGROUND

- Multiple past situations in Florida and across the nation resulted in MCIs
- With increasing Florida population comes an increasing potential for incidents
- Shortages of and turnover in staff necessitate revisiting MCI capabilities



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Florida HEALTH

BACKGROUND

- MCIs not just limited to urban areas
- New approaches are needed
- COVID-19 provided hospitals in Florida with an opportunity to see how ready they are for an MCI
- While technology is helpful, Simple - Straightforward Solutions are needed, which leads us to the "15 'til 50" MCI Response Strategy



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Florida HEALTH

STAFFING

- Like the Incident Command System (ICS), staffing is scalable
- Walking boss
- Training, assignments, and job action sheets
- As more staff arrive, additional assignments can be made

Job Category	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
Command																					
Operations																					
Logistics																					
Finance																					
Medical																					
Public Affairs																					
Transportation																					
Other																					



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Florida HEALTH

EMERGENCY DEPARTMENT

- Disaster Lead: (External) RN
- Charge: (Internal): RN
- Setup & DECON: Techs/CCTs
- Triage: RN
- Minor Treatment Area Team:
2 RNs + MD + Registrar + RT
- Immediate Treatment Area:
2 RNs + MD + Registrar + RT
- Delayed Treatment Area Team:
2 RNs + MD + Registrar + RT



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Florida HEALTH

SECURITY RESPONSIBILITIES

- Facility Lockdown
- Access Control using barricades, signs, personnel
- Traffic Control, especially near ED
- Crowd Control
- Patient Security
- Ongoing Assistance to Law Enforcement



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Florida HEALTH

HICS IN A BOX

- Hospital Incident Command System (HICS) tools co-located with supplies
- HICS Vests in a Binder
- HICS Forms Filed and Easily Accessible
- Incident Response Guides
- HICS Job Action Sheets
- Organization allows for quick deployment



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Florida HEALTH

INITIAL ACTIVITIES - SEQUENCE

- Notification of MCI and potential patient influx received
- Plan activated by nursing supervisor
- Code "Triage" is announced
- Staff callback if needed
- Activation of Hospital Command Center (HCC)
- Staff access 15 'TIL 50 Go Kits
- Resource system allocates supplies, carts, etc.
- Radios distributed
- Triage areas are established and set up
- Security uses barriers, cones, signage, etc.
- HCC begins operations and develops SAP
- Holding area for patients established
- Staff reports to pre-designated assignment positions
- Patient allocation to triage areas begins



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KEYS TO SUCCESS

- **Keep it Simple!**
- Do everything possible to have as many steps, tasks, supplies, and procedures as possible pre-organized and staged
- Remember that the strategy is "scalable" and can be enhanced as more help arrives
- Keep supplies in rotation sequence so "critical" items are always available
- Ensure that each shift has at least one "take charge" leader available to organize response



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RESOURCES – 15 'TIL 50 MCI GUIDE

- "Guide" provides great detail on the setup and operation
- Includes specific MCI emergency action sheets & supplies list
- Contains guidance on how to get support for the program and how to implement the strategy
- Basically an A to Z guide to the program – non-proprietary



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CONTACT INFORMATION



Terry Schenk, M.S. CCS
 Medical Surge Project Coordinator
 Florida Department of Health
 Bureau of Preparedness & Response
 Email: Terry.Schenk@fldh.fl.gov
 407.791.8935



TRIAGE

- START triage is used by most agencies
- **Minimal - Delayed - Immediate - Expectant**
- Delayed and Immediate are usually collocated together with Minimal separated
- "Dual Wave Phenomenon" will probably be in effect - mostly green in the first 15-30 minutes followed by more serious within 1 hour
- MCI statistics show, typically, the following:
 - 20% RED
 - 30% YELLOW
 - 50% GREEN

Color	Code	Work by	Level Care	Notes
Red	Expectant - There is no chance of survival	Resuscitation	None	Do not spend too much time on these patients
Yellow	Immediate - Life threatening injuries	Resuscitation	Immediate	These patients need to be treated first
Green	Delayed - Life threatening injuries	Resuscitation	Delayed	These patients need to be treated after the immediate patients
Black	Deceased - No vital signs	None	None	These patients are not to be treated



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JACKSONVILLE EXERCISE OCTOBER 2023



With all resources in place - Exercise results: 15 'TIL 50 MCI 15' in 28 minutes - 45 seconds

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FUTURE OF 15 'TIL 50

- In use now in multiple hospitals in U.S. with more adopting the strategy
- Pediatric focus
- FDCH / Healthcare Coalitions
 15 'TIL 50 exercises and training:
 Tampa - April 22-24, 2024
 Miami - June 3-5, 2024
- Southern Regional Disaster Response System potential use



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INITIAL ACTIVITIES - SEQUENCE

- Notification of MCI and potential patient influx received
- Plan activated by nursing supervisor
- Code "Triage" is announced
- Staff callbooks reviewed
- Activation of Hospital Command Center (HCC)
- Staff processes 15-30 (in file)
- Resource system allocates supplies, tools, etc.
- Rosters distributed
- Triage areas are established and set-up
- Security uses barriers, cones, signage, etc.
- HCC begins operations and develops IAP
- Holding area for patients established
- Staff reports to pre-designated assignment positions
- Patient allocation to triage areas begins



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LESSONS LEARNED FROM 1ST EXERCISE

- Training needed in addition to "live or drill"
- Green area needs separated from others
- Portable cot storage
- Triage area a trip hazard
- Phone tree algorithm
- Resources need to be located closer
- Rolling supply carts
- Role identification, training, and exercising
- Clear communications between HCC and Triage Lead along with all staff



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RESOURCES – 15 'TIL 50 MCI TEMPLATE

- "Template" provides a "plug and play" for strategy activation
- Includes job assignments
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15 'TIL 50 Mass Casualty Incident Plan Template

15 'TIL 50
Mass Casualty Incident
Plan Template



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PEDIATRIC

- Pediatric patient considerations in MCI
- Should include decon procedures as flow
vs other from adults – Process checklist
- Note basket use to hold and carry pediatric patients
- Other special procedures



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RESOURCES



Click on icons to view resources and more

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QUESTIONS?



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