Responder Communications in Disaster: "Is Less Really More?"

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Disclaimer

•The authors' views are theirs and do not reflect the official policy of Yale University, the Department of Army, Department of Defense, or the U.S. Government

Purpose

• To provide clinicians an understanding of the disaster management and the importance of responder communications

Learning Objectives

- Describe responder communications in disaster medicine (IDEA Model)
- Describe emergency management & MASCAL (Mass Casualty) situation
- Describe how to provide situational awareness (via complexity and contradictions of convergence behavior)

Introduction: Responder Communications in Disaster

- Emergency Management
 - (Four Phases)
 - 1. Mitigation
 - 2. Preparedness
 - 3. Response
 - 4. Recovery
- Emergency Management when there is a MASCAL that overwhelms local resources

MASCAL

- Mass casualty (MASCAL) situation is whenever sick and wounded casualties overwhelms capabilities of a medical treatment facility (MTF)
- Triage with IDME (Immediate, Delayed, Minimal, Expectant) and try to document





Account for convergence behavior



CONVERGENCE BEHAVIOR

- People are attracted to disasters for sundry reasons
 - Altruism/empathy
 - Entertainment/excitement
 - Greed/Opportunity
- Problems with social control
- Spontaneous movement of resources into disaster area
 - Human
 - Informational
 - Logistical (e.g. material)



Acknowledge emergency management linked to **improvisation**



- Emergency Management
 - Mitigation (Not Prevention)
 - Preparedness (Rehearse)
 - Response (Perform)
 - Recovery (New Normal)
 - Mitigation (New Policies)
- Organizational Improvisation
 - Reproductive
 - Adaptive
 - Creative
- Responder Communication
 - Practice & Rehearsals
 - Relating to an Audience
 - Theaters of Operation

Prepare to Respond!

Improvisation & Innovation

- Reproductive
 Improvisation
 - Execute existing plan
 - Remember rehearsals
- Adaptive Improvisation
 - Derive from existing plan
 - Environmental impacts
- Creative Improvisation
 - Something new
 - Something very different

Think Jazz!



Assign Spokespersons to:

- Collect data, identify resources, and share information with stakeholders
 - Be specific
 - Distinguish between needs and wants
 - Quantify needs and Specify Timelines
- Coordinate resources via the Incident Command System (ICS)
- · Facilitate dialogue with stakeholders
 - External: ICS Commander, Police, Fire, etc.
 - Internal: Clinicians, Laypersons, Volunteers, etc.



Collect Information and Facilitate Dialogue

Collect information

- · Collect data
- Identify resources
 - Human Resources (i.e. casualties, staff, volunteers, etc.)
 - Informational Resources, such as Wireless
 Emergency Alerts (WEAs)
- Share information with stakeholders

Facilitate dialogue

- Assign a spokesperson for external stakeholders such emergency managers and first responders
- Assign a spokesperson for internal stakeholders such as staff, trained volunteers, untrained volunteers, etc.

Create key messages with **IDEA Model** Internalization Most effective from known sources - Trustworthy, Credible Distribution Internalization - Social Media - Texts, Tweets, etc. Distribution - Wireless Electronic Alert (WEA) Ε Α Explanation Action - What happened (maybe why) - When and Where Actions to be taken - Who does what - When and where - Use thematic maps and URLs











PACE & Responder Communications Primary 🛅 🔕 🗗 🛈 💆 - Facility Electronic Devices (e.g. emails, etc.) - Facility land-lines - Facility Spokespersons S Alternate • 9 B 7 W Social Media Contingent • PACE Planning - Smartphones Emergent ٠ - Personal Runners - Short-wave Radio/Walkietalkie - Signs, Thematic Maps - Volunteers, etc.

Logistical Resources

 The Department of Defense (DOD) uses joint logistics to supply and sustain troops, as well as humanitarian interventions in different places throughout the world when the DOD is ordered to provide Defense Support to Civil Authorities (DSCA) operations.¹³



Logistical Resources

 There are ten classes of supply to sustain people. These supplies include everything from subsistence to repair parts and material not supported by the DOD, such as local contracts to acquire goods and services.

SUPPLY CLASS	DEFINITION
I.	Subsistence items, gratuitous health and welfare items
н	Items of equipment other than major end items
m	Petroleum, Oil, And Lubricants (POL)
IV	Construction and barrier materials
v	Ammunition
VI	Personal demand items normally sold through exchange
VII	Major end items
VIII	Medical material
IX	Repair parts and components. (Class IXa is aviation- peculiar products)
x	Material to support nonmilitary programs
Miscelianeous	Water, maps, captured material, and salvaged material





Discussion

- This project asked a metaphysical question: "Is less more?" From a theoretical perspective, "less is a bore" was the counterpoint to the old adage "less is more." In other words, there were old-school versus new-school paradigms to raise questions about complexity versus simplicity in built environments. So what, right?
- The *so what* is that the built environment is frequently where responder communications (in disaster medicine) *literally* takes *place*, yet it is easy to forget how convergence behavior (i.e. spontaneous movement of human, informational, and logistical resources) takes place in a built environment. There will be (un)equipped, (un)expected, (un)trained, and (un)wanted professionals and volunteers arriving at the scene because people are attracted to disasters.



Conclusions

- Medical professionals in clinic and hospital settings need to account for convergence behavior to disrupt responder communications in disaster, especially when there is a mass casualty (MASCAL) situation that overwhelms local resources
- It is key to acknowledge the art of emergency management (i.e. mitigation, preparedness, response, and recovery) linked to different types of improvisation (i.e. reproductive, adaptive, and creative).
- Medical professions should collect data, identify resources, and share information with internal stakeholders to facilitate dialogue about key messages, situation reports, and social media.





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Additional Resources

- Responder Communications in Disaster: Is Less Really More
 - Stanton, R. & Duran-Stanton, A. (edited by Showstark, M.)
 - Physician Assistant Clinics, Volume 4, Issue 4, 687 699
 - DOI: <u>https://doi.org/10.1016/j.cpha.2019.06.003</u>
- Vulnerable Populations in Disaster Medicine: Residence, Resilience, Resources
 - Stanton, R. & Duran-Stanton, A. (edited by Showstark, M.)
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 - DOI: <u>https://doi.org/10.1016/j.cpha.2019.06.005</u>
- <u>https://www.army.mil/article/208673/mascal_exercise_enhances_rea_diness_at_tripler_army_medical_center_</u>
- <u>https://asprtracie.hhs.gov/technical-resources/33/pre-hospital-mass-</u> casualty-triage-and-trauma-care/0
- <u>https://www.cdc.gov/cpr/readiness/healthcare/tools-resources.htm</u>

Questions/Discussion