Healthcare Coalition Response:

A Performance Support Tool for On-Call Healthcare Coalition Staff

Benjamin McNeil, MS

Alison Randall, BS





Objectives



- Describe the Boston Healthcare Preparedness Coalition (HPC) and Boston Public Health Commission's (BPHC) Office of Public Health Preparedness (OPHP)
- Describe the BPHC Medical Intelligence Center (MIC) Duty Officer (DO) program
- Discuss the development process for our MIC DO Job Aids
- Provide recommendations for building your own coalition duty officer job aids

Introductions

Boston Healthcare Preparedness Coalition

ALISON RANDALL

- OPHP: Senior Program Manager, Health Care System Preparedness
- Boston HPC: Manager

BEN MCNEIL

- OPHP: Associate
 Director, Healthcare
 System Preparedness,
 Response and Recovery
- Boston HPC: Planning & Operations

Coalition Model in MA



 6 healthcare coalition regions in the state

 City of Boston is Region 4C = Boston Healthcare Preparedness Coalition (HPC)

Boston HPC Organization



Boston Healthcare Preparedness Coalition

Healthcare Landscape in Boston



Office of Public Health Preparedness

Vision

The Office of Public Health Preparedness envisions a **resilient Boston** through healthy, informed, and connected communities that are supported every day and during emergencies by **strong**, **integrated public health and healthcare systems**.

Mission

The mission of the Office of Public Health Preparedness is to **enhance community, public health, and healthcare system resilience** in order to prepare for, respond to, and recover from emergencies that impact **health and access to healthcare**.

Office of Public Health Preparedness





Community Resilience

Disaster Behavioral Health





Finance

S

Administrati

Education and Training: DelValle Institute for Emergency Preparedness

Healthcare System Preparedness





Public Health Emergency Management

Public Health and Healthcare Response & Recovery Operations



ESF-8 in the City of Boston



Medical Intelligence Center (MIC)





- Situational Awareness
- 2. **Resource Coordination**
- . Human Services Coordination

MIC Duty Officer Model



Challenges

- Complex information gathering and decisionmaking
- Different than daily role for most
- Unfamiliar equipment and platforms
- Limited time for training & exercises





Scenario





Scenario





Three Hours Later...



9:41am – 12:56pm

3 Alert Notifications

26 phone calls

64 text messages



Performance Improvement



*Staff performance = accomplishments and behaviors

Drawing from Other Models



Boston

Preparedness Coalition

in Disaster Medicine

A Framework for Training Public Health Practitioners in Crisis Decision-Making

Harvey Kayman, MD, MPH; Tea Logar, PhD

OODA Loop





OODA Loop







Job Aid: Observe



Date: Incident 5	itart Time: Initial Notification Time (to BPHC):
Incident	End Time:
Initial notification received by:	Initial Point of Contact
Phone	Name: Position:
Email BPD Alert	Phone: Email:
Pager Other:	Incident location:
	Cause of event:

General REMINDER: Do not disseminate sensitive information

Question	Answer	Source	Credible / Verified?
# of patients (or potential patients)			
Severity and types of injuries? (bycgs, locerations, bullet wounds, crush injuries, etc.)			
Anticipated duration of the incident			
Other agencies currently responding			
Actions taken to address incident (e.g. EMS on-scene, evocuation occurring, etc.)			
What specific ESF 8 facilities are affected?			
What ESF 8 facilities may potentially be affected?			
What special populations are affected? (e.g. language, age, medical issues, socio-economic)			
Is transportation or travel disrupted? How?			
Has this incident received media attention?			
How will current and forecasted weather conditions affect the situation?			
Have ESF 8 agencies been notified? Who, how?			

Hazardous Materials ***Notify Environmental Health immediately***

Question	Answer	Source	Credible / Verified?
Is the substance known? If yes, what is it?			
Are there any contaminated casualties? If so, has patient decontamination been performed?			
Has a HAZMAT Response Level been designated by BFD?			
What geographical area is affected?			
Is any evacuation or shelter in place ordered?			

Job Aid: Orient



POTENTIAL IMPAG	CTS Red = Major Impact Purple = Potentially Major	NOTES
lealthcare System Imp	acts	
Surge of Patient: (Boston) # Actual, # Potent # Dead	(e.g. burn patients, children, radiation exposure.	s)
Access to Health	Care Roadway access to HCF blocked Subway access blocked Travel restrictions	
	Not accepting ED pts	
Care services	Multiple facilities affected HCF partial evacuation	
Public Health Impacts	HCF evocuation Critical functions disrupted	
Provision of Pub Health services	ic BPHC Facility impacted (e.g. building integrity, building safety and secur utilities, building occupants) Critical functions impacted: (list)	ity,
Health of the pu	Large # people impacted (pts & witnesses) Contaminated environment (e.g. unside dr. witnesses, food property) Actual or potential transmission of disease (highly entrogenic, #T Agent, etc.)	
Other Impacts		
Public information	MIC receiving many inquiries from press of our partners Large amount of media coverage Inaccurate or unclear information, rumors	
Classify Incident		
Classification	# Potential Patients	Potential Disruption to ESF 8
Major	Significant number (MCI Phase 2 w/ specialty, or MCI Phase 3 or above	Major e) (TBD)
Moderate/	Minor to moderate number	Moderate

 Major
 Major
 Major
 Major

 (MCI Phase 2 w/ specialty, or MCI Phase 3 or above)
 (TBD)

 Moderate/ Minor
 Minor to moderate number (MCI Phase 2)
 Moderate (TBD)

 Informational
 Little to none (MCI Phase 1)
 Little to none Unclear

 Developing/ Unknown
 Unclear
 Unclear



Classification	Notifications	MIC Activation	Potential Plans & Systems
Major	Immediate	Level 2: Partial -or-	Systems
	Phone Call to COBTH EM Coordinator Page MDPH Duty Officer Everbridge high-priority alert (email, SMS) to OPHP staff, COBTH EM Coordinator	Level 3: Full Physical *See steps below	WebEOC Create an incident in the City of Boston WebEOC EMTrack
	MIC Alert/Advisory Alert or Advisory to MIC Advisory	"See steps below	MassMAP Plans
	Distribution List via business email, SMS text, and business phone; <u>confirmation</u> <u>required</u> .		BPHC EOP Family Reunification Plan
Moderate/	Initial Notification	Level 1: Enhanced	Systems
	Email via Everbridge or the MIC email account to all OPHP staff, COBTH Emergency Management Coordinator	Virtual	WebEOC Create an incident in the City of Boston WebEOC
	Hospital impacts: Phone call to the COBTH Emergency Management Coordinator		
	MIC Advisory (if necessary) Advisory to MIC Advisory Distribution List via business email only. No confirmation of receipt is needed.		
Informational	No notification required.	Steady State	No action required.
Developing/ Unknown	Initial Notification (if necessary): Email via MIC email to OPHP staff, COBTH Emergency Management Coordinator Hospital impacts: Phone call to the COBTH Emergency Management Coordinator	Steady State	No action required.

Steps to Physical MIC Activation (Level 2 or Level 3)

- Convene and facilitate a conference call with all available MIC Duty Officers
- Assess OPHP availability to staff the MIC utilizing Everbridge Mass Notification
- Develop an initial MIC Operations Plan to be disseminated
- Activate and set-up the MIC
- Staff the Boston Emergency Operations Center (EOC), ESF8 Desk





- Duty Officers need tools to move fluidly between their on-call roles and day-to-day roles in the workplace
- Job Aids support consistent and comprehensive information gathering and swift decision making
- Increased efficiency in initial response actions leads to stronger partnerships within the healthcare coalition



Recommendations for Adapting

- 1) Understand your coalition's response expectations and responsibilities
- 2) Assess your coalition's Duty Officers' skill set and training capacity
- 3) Look to best practices in different fields
- 4) Test and gain feedback. Again and again.

Thanks!





To download the job aids and For more information contact: key references: bmcneil@bphc.org

https://delvalle.bphc.org/dutyoffic

(617) 343-6953

References

- Boston Healthcare Preparedness Coalition
- Centers for Disease Control and Prevention (2011). Public health emergency response guide for state, local, and tribal public health directors. Retrieved from <u>https://emergency.cdc.gov/planning/responseguide.asp</u>
- Kayman, H. & Logar, T. (2016). A framework for training public health practitioners in crisis decision-making. *Disaster Medicine and Public Health Preparedness*, 10, 165-173.
- Minarcine, S. (2012). Health security intelligence: Assessing the nascent public health capability (Unpublished Master's Thesis). Naval Postgraduate School, Monterey California.
- Parker, A.M., Nelson, C., Shelton, S.R., Dausey, D.J., Lewis, M.W., Pomeroy, A., & Leuschner, K.J. (2009). *Measuring crisis decision making for public health emergencies*. Santa Monica, CA: RAND Corporation.
- Pritchett, B.A. (2008). *Qualia: A prescription for developing a quality health threat assessment* (Unpublished Master's Thesis). Naval Postgraduate School, Monterey California.
- Robinson, D.G. & Robinson, J.C., Phillips, J.J., Phillips, P.P., & Handshaw, D. (2015). *Performance consulting: A strategic process to improve, measure, and sustain organizational results*. Oakland, CA: Berrett-Koehler.