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Role of Training in Emergency Preparedness

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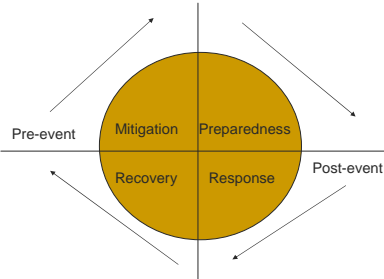


Collaboration



Disaster Cycle

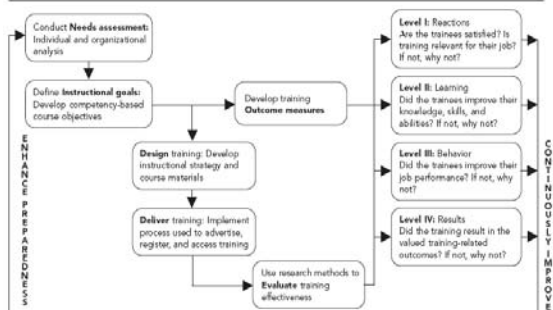
- Pre-event
 - Mitigation
 - Preparation
 - Planning
 - Training
- Post-event
 - Response
 - Recovery



Training

- Improves preparedness for disasters
 - Improves performance/outcomes
 - Maximizes potential of the individual worker
- Competency-based
- Needs Assessment
 - Online competency assessment tool

Training System Model



The Effect of September 11, 2001

- Training increased at different levels
 - EM residency programs:
 - 53 to 98% (*Acad Emerg Med.* 2007 Mar;14(3) *Bioterrorism training in U.S. emergency medicine residencies: has it changed since 9/11?*)
 - Other residency programs:
 - Family medicine and pediatrics
 - Emergency Medical Services
 - Nursing

Training Modalities Utilized

- Face-to-face (07/08 Project Period)
 - Food Safety and Defense Conference
 - Management of Radiological Casualties
 - Learning to Communicate during a Crisis
 - Medical Command
 - MCI START
 - Explosion and Blast Injury Course
 - Hazardous Materials Emergency Response Technician
 - Confined Space Entry and Rescue

Training Modalities Utilized

- Satellite based/Webcast – 1.5 Hr broadcast
 - 9-28-06 Utilizing Government Resources in a Disaster 1,749
 - 11-28-06 Planning and Execution of Disaster Response 5,119
 - 12-4-06 Vulnerable Populations and Emergency Management 1,690
 - 2-27-07 When the System is Overwhelmed: Protecting the Provider During Bio-disaster 5,571
 - 3-22-07 Psychology of Terrorism and Psychological Counterterrorism: 7 Things You Should Know 6,370
 - 3-27-07 Bombs, Explosions & Preparedness: A New Role for Public Health and First Responders 5,289
 - 6-29-07 Mass Shelters: Environmental Health Issues 4,103
 - 8-15-07 The Pharmacist role in disaster response 2,891

Training Modalities Utilized

- Web-based (Courses to be developed in 07/08)
 - Environmental Health and Shelters
 - Homeland Security – Defining Directives, Organization and Policies
 - Implementing the National Strategy for Pandemic Influenza
 - Planning and Execution for Disaster Response
 - Environmental Health Issues in Disasters
 - Risk Communication in Public Health Emergencies
 - Environmental Sampling and Monitoring in a Disaster
 - Mass Casualty Incident/Triage Awareness
 - Pharmacist Role and Interface with Public Health and Disaster Response
- Certificate Programs
 - JCDH Environmental Health
 - ADPH Emergency Preparedness

Discussion- and Operational-based Exercises

- Alabama School Closing Tabletops (12)
- MS Functional Pan Flu Exercises (10)
- Agricultural Incident Response Operational-based Exercise (1)
- AL & MS Cross Border Tabletop Exercise (2)
- MS School Closing Tabletop Exercise (24)

Evaluation

- Utilizing Kirkpatrick's Taxonomy
 - Level I: Reactions to training
 - Level II: Knowledge gain
 - Level III: Individual level behavioral change – Application of knowledge gained
 - Level IV: Organizational level change

SITUATION CRITICAL #1: Residents with limited mobility need to be evacuated from their homes. You are the first responder in charge of this effort.



1. How do you assure that you have identified the necessary equipment to safeguard the well-being of an individual with mobility impairments?

- a. Ask the person who is being moved
- b. Look at the chart
- c. Ask the aide
- d. Just move them
- e. I don't know

Level III

- Homeland Security Exercise Evaluation Program (HSEEP)
Compliant Evaluations
 - After Action Reports / Improvement Plans

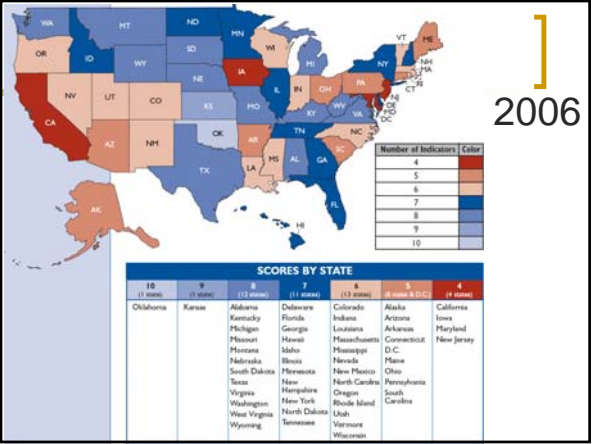
Are We Better Prepared?

Trust for America's Health					
State by State 2004 Scores Compared to 2003 Scores					
States	2004 Score	2003 Score	States	2004 Score	2003 Score
Alabama	5	6	Kansas	7	3
Alaska	3	3	Kentucky	7	2
Arizona	5	5	Louisiana	6	5
Arkansas	5	2	Maine	6	3
California	5	7	Maryland	6	7
Colorado	6	5	Massachusetts	3	5
Connecticut	6	4	Michigan	6	3
Delaware	5	5	Minnesota	8	5
District of Columbia	4	3	Mississippi	7	2
Florida	9	7	Missouri	7	4
Georgia	6	3	Montana	7	3
Hawaii	6	4	Nebraska	8	6
Idaho	6	3	Nevada	5	5
Illinois	5	5	New Hampshire	8	5
Indiana	4	4	New Jersey	5	5
Iowa	6	3	New Mexico	5	2

Trust for America's Health					
State by State 2004 Scores Compared to 2003 Scores					
States	2004 Score	2003 Score	States	2004 Score	2003 Score
New York	5	6	West Virginia	6	4
North Carolina	9	5	Wisconsin	6	2
North Dakota	7	5	Wyoming	4	4
Ohio	6	4			
Oklahoma	6	3			
Oregon	6	3			
Pennsylvania	4	3			
Rhode Island	5	6			
South Carolina	6	4			
South Dakota	7	4			
Tennessee	6	7			
Texas	6	4			
Utah	6	4			
Vermont	7	3			
Virginia	8	5			
Washington	6	6			

Summary:

- 34 states obtained higher scores
- 9 states remained the same
- 7 states declined



[SCCPHP



**South Central Center for
Public Health Preparedness**

UAB School of Public Health
Tulane University School of Public
Health and Tropical Medicine

[South Central Center for Public Health Preparedness



- Beginning 4th year of cooperative agreement
- Grant and Contract supported training
- Public, private, and governmental trainee populations
- Prepare public health systems workers to plan for and rapidly respond to public health threats and emergency events.
- Over 112,499 SCCPHP trainees to date
- Over 210,023 contact hours

[Other Activities



- IMPACT Internships
- Scholarship Program
- PREPARE e-Newsletter
- Monthly e-Announcement
- Level 3 Follow-up Evaluation
- Online Competency Assessment Tool
- Learning Management System (LMS)
- Overall Program Evaluation

[SCCPHP]



- www.southcentralpartnership.org

[CEIEP]



Center for Emerging Infections
and Emergency Preparedness



- University-wide Interdisciplinary Research Center, established in Fall 2006

Mission: The CEIEP will enhance the core areas of basic/fundamental research, translational research, clinical research, population and behavioral research, computer modeling and simulation, as well as training and education surrounding biodefense, emerging infections, emergency medical care, and public health disaster preparedness in Alabama and across the world.

[National Center for the Study of Preparedness and Catastrophic Events Response (PACER)]







Blast Injury and Explosion Courses

- Course funded by the Alabama Department of Public Health
- Collaboration between ADPH, South Central Center for Public Health Preparedness (SCCPHP) and CEIEP
- Twelve courses (2 in each Hospital Planning Region) March - June 2007
- Material focuses on post-bombing *response, clinical concerns, triage & victim management, and rehab*

Live Radiation Drill @ UAB (2/15/2007)


- Exercise was based on a "Dirty Bomb" explosion at Linn Park
- 15 casualties presented to UED
- Coordinated by the CEIEP, along with 20 internal and external partners
- Financial support from Southern Nuclear
- Exercise tested ED triage, decontamination, and patient evaluation capabilities, as well as the responses of the Emergency Operation Center, UAB Media Relations, and UAB Police
- CEIEP submitted a final report to the UAB Hospital Emergency Management Committee highlighting lessons learned and future training needs

Focus Group Report

Health Care Stakeholders' Training Needs Analysis

January 18-19, 2007
Center for Emerging Infections & Emergency Preparedness
University of Alabama at Birmingham



Homeland Security

- In January, the CEIEP was tasked with bringing a diverse group of emergency response experts to UAB to participate in a focus group
- Participants recommended existing courses/training opportunities available to meet the needs of various response disciplines & but also identified current training deficiencies
- Conclusion:** Training recommendations requiring immediate attention across-the-board include Mental Health, Ethics and End-of-life Issues, Public Health Law, Emerging Infections, Forensic Epidemiology, and Natural Disasters, Infection Control, Agroterrorism, Language barriers and emergency response, Cyber terrorism preparedness, and use and standardization of Personal Protective Equipment.

2006 - 2007 PITF Activities

PANDEMIC INFLUENZA: UPDATE ON BIOLOGICAL PERSPECTIVES AND PREPAREDNESS EFFORTS

UAB CENTER FOR EMERGING INFECTIONS AND EMERGENCY PREPAREDNESS
ARTIFICIAL SYNDROME

Speakers and Topics

David Presbitero, MD - National and International Current Events

David Presbitero, MD - Epidemiology and Pathology

Andrew Pavia, MD - Therapy

Joshua Epstein, PhD - Epidemic Modeling

Thomas Tenover, MD - Hospital Surge Capacity

Russell Wilson, MD - Preparedness Efforts for the Influenza Virus

John Williams, MD - Preparedness Efforts for the Influenza Virus

Andy Bock, PhD - Report on Previous Results from a Pandemic


Richard Whitley, MD - Background and Overview of the UAB

Mike Richard - UAB Campus Pandemic Influenza Planning Committee


Michael Reed & L.D. Blackford - City of Alabama Pandemic Committee

Walter White, MD - UAB Patient Health Preparedness

Paul Davis, MD, and Robert Colwell, DPH - UAB Hospital Staff



- "Pandemic Influenza Symposium" with over 200 participants and 15 speakers (December 6, 2006)
- Tabletop exercise that walked through a human H5N1 avian influenza pandemic scenario involving UAB's campus and hospital (December 11, 2006)
- Poster presentations at the recent "Seasonal and Pandemic Influenza Conference" in Arlington, VA (February 1-2, 2007)
- Alabama Public Television "For the Record" broadcast featuring the work of the UAB PITF (February 20, 2007)
- Prioritized recommendations for improving Pandemic Influenza preparedness at UAB and in Jefferson County to be submitted to UAB Central Administration



UAB

WORKPLACE SAFETY TRAINING

School of Business

Center for Labor Education and Research



A 20 year history of Occupational Safety and Health training




- Grant-funded and fee supported training
- Public, private, and governmental trainee populations
- Quality, effective, practical, & safe training
- Over 78,000 WST trainees to date

Funding Sources and Trainee Populations

- NIEHS
 - CWA members
 - Native American Tribes
 - Public Safety Personnel
- HMEP/AEMA
 - Public Safety Personnel
- SCCPHP/ADPH
 - Public Safety, Public Health, & Hospital Personnel
- Fee-Supported
 - Industrial Sector
 - ADEM
 - USACOE



Training Staff

- Alan Veasey, MAEd, MPH
Director
- Kenny Oldfield, MSPH, CIH
Industrial Hygiene Services Manager
- Ted Krayner, MPH, CHMM, FF/EMT-B
Training Manager
- Roy Stover, BA
Instructor
- Sam Hansen, BS, FF/EMT-P, EFO, CFO, CET
Instructor



Courses Provided Include:

- Hazmat Awareness, Operations and Technician
- Hazmat Refresher
- Haz Waste Site Worker
- Haz Waste Site Refresher
- IMS/ICS
- Clandestine Lab Awareness



Courses Provided Include:

- WMD Awareness
- Air Monitoring
- Respirator Fit Testing Training
- Confined Space Entry
- Confined Space Rescue
- MCI Triage
- ODP Radiological Nuclear Awareness
- CDLS Basic Disaster Life Support



Major Accomplishments:



- Textbooks:
 - Emergency Responder Training Manual for the Hazardous Materials Technician, 2nd ed.
 - Confined Space Entry and Emergency Response, w/ CD-ROM
 - Effective Safety and Health Training
- WST Resource CD
- Magazine and Journal Articles
- Assistance with video productions

TRAINEE SAFETY AND TRAINING QUALITY ARE OUR TOP PRIORITIES!
