Update on Emergency Preparedness for KY Hospitals and Healthcare Systems:
A Panel Discussion

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September 11, 2001... and beyond
Evolving Threats

CBRNE Threats (accidental and deliberate)

• Sabotage to chemical plants/storage facilities
• Deliberate chemical releases
  (building, tunnel, mass-gathering)
• Improvised Explosive Devices (IED)
  Pressure cooker bombs used at Boston Marathon
  Roadside explosives, booby traps, suicide vests
• Biological agents
  Anthrax, ricin, engineered viruses, plague
• "Dirty" bombs
• Nuclear devices

Evolving Threats

Other Terrorist Threats

• Airliners as "man-guided" missiles
• Transportation system sabotage
• Gasoline & chemical tankers as mobile WMD devices
• Disruption to fuel processing and distribution systems
• Water supply - pipelines, storage & treatment facilities
• Power generation and distribution system vulnerabilities
• Telecommunications system vulnerabilities
  Satellites, microwave towers, critical long-line cables
  Computer based switches, VoIP systems
• Cyber security and cyber attacks
  Internet-based networks, TDoS and DDoS Attacks
  Trojans, viruses, botnets, spoofs and more
Evolving Threats

Pandemic Threats

- Avian and other "bird flu" (H5N1 H5N9 H7N9 H9N9)
  Typically start in Southeast Asia and China
  Concerns about birds at state fairs in the US

- Pig-borne “Swine flu” (H1N1 H1N2 H3N2v)
  Can spread among livestock; Occasionally jumps species
  Some patients suffer multiple organ failure

>> Both are potential threats to food supply

- SARS (Severe acute respiratory syndrome)
  Killed 775 during 19-month outbreak
  High losses with HC facilities in Canada

- This year - MERS in Europe and middle east (H3N2)

Evolving Threats

Security Challenges

- Critical problem of illegal aliens pouring over the US-Mexican and US-Canadian borders

- Screening massive volume of imported shipping containers

- Imbedded terrorist sleeper cells (foreign and domestic)

- Terrorist sympathizers in the population

- US Mail, UPS, FedEx and similar services as a potential delivery mechanism for chemical, explosive and biological terror

- Active Shooter incidents
Evolving Threats

Preparation Issues

- Reduced funding for preparedness
- Isolation/quarantine procedures need to be established/updated and tested
- Interoperability of systems, operations, personnel and communications network
- Inadequate exercising and drills to test systems, plans and training
  ✓ Reluctance to spend the time or money for preparedness
- Failure of business and many government agencies to plan for continuity of operations (COOP)
- Personal and home preparedness is usually inadequate
  ➢ The belief that "it won't happen here"
Prepare responders to work safely in hazardous environments

Example of State and Regional Planning and Exercises

National Level Exercise 2011
Planning for Capstone 2014
Surge Capacity and Capability Planning

- Surge plans that enable a community or facility to accept and care for additional patients on a temporary basis during an emergency situation.
- Plan for the recruitment and use of medical volunteers of all types in a disaster. K-HELPS (ESAR-VHP) and Medical Reserve Corp (MRC).
- Working on plans for phase-in of national/state guidelines based on IOM recommendations for "Crisis Standards of Care".

Over 15 Mobile Medical Surge Units

Most are identically equipped and designed to create a medical shelter for about 30 people

Also have trailers filled with nothing but cots, sheets and blankets.
Larger Regional Mobile Surge Shelter Packages

- Louisville
- Lexington
- Bowling Green
- Lawrenceburg
- Elizabethtown
- Flemingsburg
- Paducah
- Salyersville
- SE Kentucky

State Mobile Treatment Center

- 48 bed capacity (3 wings)
- Isolation unit (6-8 beds)
- Quad for RN station
- 90 kW power; A/C-Heat
Tornado Outbreaks
March 2-3, 2012

How Kentucky Responded

Rebecca Patton, RPC Region 13
✔ Laurel County Tornado

Sharon Green, HPC Regions 10/11
✔ Multiple counties – eastern KY

Terry Stewart, HPP Region 8/9
✔ West Liberty, Morgan Co ARH
✔ Regional Coalitions

http://en.wikipedia.org/wiki/File:SPC_Severe_weather_reports_20120302.png
http://en.wikipedia.org/wiki/March_2%E2%80%933,_2012_tornado_outbreak

Tornado Reports...
Wind Reports: 239
Hail Reports: 116
March 2, 2011 Tornado
MCHD as County EOC
MCHD damaged but still standing…

Cleanup efforts add to the chaos…

• Cleanup begins
• Site-seers cause bottlenecking and make ingress/egress difficult.
• Out-pouring of volunteers and supplies from far and near.
Continuity of Operations (COOP)

Essential Services

- Epidemiological Surveillance in Shelters
- Prophylaxis of tetanus for injured clean-up workers
- Shelter Inspections
- Reporting to KDPH, FEMA
- Inspections of Volunteer Feeding Booths
- Distribute WIC ready-to-feed formula

Administrative/Payroll Function

- Print Payroll Checks
- No power to Health Department for 4 days. Two of those days all 22 staff had to be paid when only 2 of us were working.
LESSONS LEARNED

• Have all of your workforce reduction plans in place, caveats covered and documents signed prior to the disaster
• Regardless of your position or role in response, you will make sure family is safe first before you can respond as public servant.
• You can’t plan for every possible scenario
• Have good networks/partnerships in place before disaster strikes

LESSONS LEARNED

• Know what assets you have and who the Point of Contact is to access them.
• Have a well developed COOP plan for administering essential services and performing critical functions
• Have plan for staff to make contact/report after an emergency instead of you contacting them.
• Have a backup plan to the back up plans
• Keep important numbers such as your insurance carrier readily available
LESSONS LEARNED

• Have backup power for essential equipment (i.e. vax refrigerator, communication equip, etc.)
• Have agreed upon signage to assist with ingress/egress. (We developed hand written placards to put in windshield of workers needing access to tornado site and they were signed by the county judge executive.)
• Credentialing may be an issue. MRC/KHELPS can assist with this.

LESSONS LEARNED

• Know your role and where you fit into the ICS structure
• Save your essential forms on jump-drive
• Keep in mind high stress levels make miscommunication more likely.
• KY reads on a 10th grade level but your public info should be written on a 6th grade reading level.
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LAUREL COUNTY TORNADO

March 3, 2012
Rating: EF2
Path: 7.15 miles
Impact of Human Loss

• 42 Injured/Transported to ER
• Of the 42, 3 were airlifted
  (2 Patients to UK and 1 Patient to UT)
• 5 deaths March 3rd and 2 subsequent deaths at a later date.
• 2 School systems affected-Mental Health of Community and Students

Functional Access Needs
Food and vital supplies can be destroyed
The HPP Region 8 Emergency Preparedness Group consists of: Bath, Bracken, Fleming, Lewis, Mason, Menifee, Montgomery, Morgan, Robertson and Rowan Counties.

- Population: 138,437
- Major industries: Manufacturing, Agricultural
Region 8 EPG Coalition Structure

- **Chair** - Pete Midden
- **Vice Chair** - Roger Russell
- **Secretary** - David Carney
- **Committees**
  - Planning
  - Education
  - Communications
  - Long Term Care
  - Mental Health
  - EMS
  - Spending

Region 8 EPG Meets Monthly

Coalition Members

- **Hospitals**
  - Meadowview
  - Morgan ARH
  - Fleming County Hospital
  - St. Claire Regional
  - St. Joseph Mt. Sterling

- **Public Health Departments**
  - Buffalo Trace District HD
  - Gateway District HD
  - Fleming County HD
  - Montgomery Co HD

- **EMS**
  - Bath
  - Bracken
  - Fleming
  - Lewis
  - Mason
  - Menifee
  - Montgomery
  - Morgan
  - Robertson
  - Rowan
Coalition Members (Cont.)

- **Emergency Management**
  - Bath
  - Bracken
  - Fleming
  - Lewis
  - Mason
  - Menifee
  - Montgomery
  - Morgan
  - Robertson
  - Rowan
  - EM-48

- **Long Term Care**
  - Bracken County Nursing
  - Colonial Rest Home
  - Edgewood Estates
  - Golden Living Center
  - Hilltop Lodge
  - Life Care Center of Morehead
  - Maysville Nursing and Rehab
  - Pioneer Trace Nursing Home
  - Ridgeway Nursing and Rehab
  - Robertson County Health Care
  - St. Claire Medical Center TCU
  - West Liberty Nursing and Rehab
  - Windsor Care Center

Coalition Members (Cont.)

- **Other Partners**
  - American Red Cross
  - Law Enforcement
  - Buffalo Trace ADD
  - KCTCS
  - UK College of Public Health
  - Mental Heath
  - KCCRB
  - KHA
  - Coroners
  - Division of Water Quality
Capabilities

• Capability 1 – Healthcare Systems Preparedness
  – Regional Resource Coordination
  – Staging of Resources with Region 8 EPG Partners

• Capability 2 – Healthcare System Recovery
  – Portable Hospital
  – Generators, POG, First Water and Support Equipment

• Capability 5 - Fatality Management
  – Mass Fatality Support Trailer

• Capability 10 - Medical Surge
  – Meadowview Exercise – Zumro Shelter
  – Ambus and Decon Equipment

Regional Assets
Zumro Shelter Exercise/Training

Mass Fatality Support Trailer
Generators Staged Through Region

Interoperable Communications
Portable Radio Equipment

Satellite Communications Radios
Amateur Radio Repeater

MITOC
CHEMPACK

First Water Training
Portable O2 Generator Training

Portable Air Conditioning for ARH
The Greatest Asset/Planning Table

Exercise
Response

View of ARH from Morgan Co. HD
Response Continued

Go Bag – Family Preparedness
Your Typical Responders?

After Action Reporting
Corrective Action Planning

Update The Regional Plan

ESF-8

Region 8 Emergency Preparedness Group

Health Care
Emergency Operations Plan

Revised and Adopted
January 2013
Gaps & Challenges

- Keeping Regional Partners Involved
- Reduced Funding
- Loss of Personnel
- Rapid Turnover of Experienced Partners
- Keeping Judges/Mayors/Administrators Informed and Involved
- Balanced approach to Planning/Improvement

Final Thought

Start by doing what’s necessary; then do what is possible; and suddenly you are doing the impossible.

Sir Francis of Assisi
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