National Health Security Preparedness Index

Analytic Methodology & Model Design
Work Group Meeting

November 15, 2016

NHSPi Program Management Office
University of Kentucky
Agenda

- New or revised measures for 2017
- Territories and selected cities
Call for Measures Input

- **Measures for which data are available to implement now**
  - Percentage of 1-person households
  - Population service by comprehensive public health system
    - Modify M501 by focusing on vulnerable population
  - State health agency has at least a level 1-2 designation to test for chemical threats
  - Number of environmental health specialists {per 100,000 population}
    - BLS OES 19-2041 Environmental Scientists and Specialists, Including Health
  - Adoption and meaningful use of electronic health records (EHR)
  - Rates of injury, illness, mental/behavioral effects, exposure, or mortality of first responders as a result of deployment during an incident / Or, does the state monitor first responders for signs of negative physical, emotional, or mental effects?
Call for Measures Input, cont.

- **Measures requiring additional study**
  - Mosquito Control areas in a state/State vector control program capacity
  - State has capacity of investigating environmental health illnesses, disease and injuries and is capable to respond to emergencies
    - 2013 CSTE report would require some specification work—several measures
  - Does your (state public health) laboratory provide pre-positioned mobile chemical/biological decontamination technology to prepare and respond to disease outbreaks and chemical attacks and exposure events?
  - Percent of residents that perceive the most people in their neighborhood as trustworthy & percent living in close-knit neighborhood
Call for Measures Input, cont.

- **Measures requiring additional study**
  - State-level mass fatality plans
    - Yes/No? Continuum?
  - Degree to which each state has a critical infrastructure plan preparing and protecting them from cyber-attacks – especially for the healthcare structure.
  - Number of environmental health specialists who have completed the various courses (e.g., EHTER awareness, EHTER operations courses, Epi-Ready training courses)
  - Number of personnel who have been trained for various skills/tasks
    - Community Assessment for Public Health Emergency Response (CASPER) surveys; it is a statistical analysis method developed by the CDC to assess human health needs after a disaster.
    - Emergency Responder Health Monitoring and Surveillance (ERHMS) course
    - Assessment for Chemical Events (ACE) course
Call for Measures Input, cont.

- Measures requiring additional study
  - Does the state have a standardized safety officer training and certification programs
    - (e.g., NFPA 1500; FEMA E954: All-Hazards Position Specific Safety Officer) for responders (fire, law, emergency medical services, hazmat, and public health).
  - Number of illnesses/outbreaks reported to CDC
    - Vector-borne illness outbreaks reported to the CDC Arbo-Net
    - Water-borne illness outbreaks reported to the CDC
  - Does your health department have a deployment safety and health program for public health staff who report for duty during an incident?
  - State has written guidance for Local Health Officers on non-pharmaceutical interventions (isolation, quarantine, decontamination)
  - State has a written radiological emergency plan that includes activation of centers for screening and decontamination of survivors
  - State has a written disaster plan for patient movement
Call for Measures Input, cont.

- Measure ideas we can use in other ways (e.g., blogs)
  - Human Development Index
  - Increasing prevalence of anti-microbial resistance
Other Measures

- **Occupational Health**
  - Emergency Responder health/fatalities
    - Bureau of Labor Statistics (BLS) Census of Fatal Occupational Injuries
      - Police, Fire, Ambulance, Emergency & Relief Services
  - Health Care Coalitions (HCCs)
    - Working with personnel at ASPR to specify measure and acquire data

- **Individual Level Measures of Preparedness**
  - FEMA National Household Survey, 2015
    - July 2015, 5,000 respondents, questions on preparedness and awareness of actions (e.g., plan, supplies)
    - Doesn’t support state-level estimates, yet
  - HUD American Household Survey
    - National estimates only
  - There are no state-level estimates available
    - But, we might want to include for national level estimates
Data are widely available on many measures for …
- Territories
  - PR, others
- Cities
  - DC, NYC, Chicago, LA

As we collect data for the 2017 NHSPI, we are also collecting data, where available, for territories and cities.

We are likely to convene a special workgroup in 2017 to evaluate progress and advise on next steps.
- Post 2017 NHSPI release
2017 Index Timeline

- November
  - Public comments on proposed 2017 Index
- January 2017
  - Final Index calculations
- February
  - 2017 Index Preliminary results (PDF) to stakeholders
- March
  - 2017 Index release (web) and events
- March-May
  - 2017 Index promotion (webinars, blogs, etc.)