

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
 - Latest CSTE report published in 2014 (2012 data)
 - 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
 - CPS, Civic Engagement Supplement (2013 data, updated in 2017)



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

Geographic Additions

- 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.)



For More Information



National Program Office

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