National Health Security Preparedness Index

Analytic Methodology & Model Design Work Group Meeting

June 20, 2017

NHSPi Program Management Office
University of Kentucky
Data Collection
- The tension between national-level and state-specific sources
- Measure hunt update

Data linkage and analysis efforts to stimulate (provoke?) dialogue and discussion about improving health security
- Analyses to uncover causes and consequences of change in health security
Data Collection

- The tension between national-level and state-specific sources
- Measure hunt update includes, but not limited to...
  - Cybersecurity
    - 911 Centers with cybersecurity plans
    - 911T Capability (texting)
  - Water Quality
    - Enforcement
    - Return to compliance
Evidence-Based Policymaking & Health Security

- Planning is integral to the Index
  - By item measure, subdomain, and domain
- What about a wider culture of planning at the state level?
  - Assess state-level EBP and categorize states into one of four groups: Trailing (7), Modest (28), Established (11), Leading (5)
- To what extent is a culture of evidence-based policymaking related to increased health security?
Community Planning & Engagement Domain

2017 NHSPI Community Planning & Engagement by Evidence-Based Policy Category
(percentage of states and district of Columbia in each category)

Preparedness Index Category
- Below US
- Same as US
- Above US

Evidence-Based Policymaking Category
- Trailing (7)
- Modest (28)
- Established (11)
- Leading (5)

57% 29% 14% 57%
39% 25% 36% 39%
45% 45% 9% 45%
80% 0% 20% 80%

Source: Author’s analysis of data from the National Health Security Preparedness Index (www.nhsip.org) and How States Engage in Evidence-Based Policymaking: A National Assessment, The PEW Charitable Trusts and the MacArthur Foundation (http://www.pewtrusts.org)
Community Planning & Engagement Domain

FIGURE 1—Health Security Index Score in the Community Planning & Engagement (CPE) Domain by the Use of Evidence-Based Policymaking in a State

Scores based on the total number of minimum and advanced actions
Community Planning & Engagement Domain

FIGURE 2—Estimated Health Security Index Score in the Community Planning & Engagement (CPE) Domain by the Use of Evidence-Based Policymaking in a State

Prevalence of Evidence-Based Policymaking Across the States
Scores based on the total number of minimum and advanced actions
Evidence-Based Policymaking & Health Security

- The independent effect of EBP on Community Planning and Engagement is substantively and statistically significant
  - CPE = f(EBP, PCIncome, Long-term Financial Obligations, disaster experience)
  - More EBP = Higher CPE
- Building support for evidence-based policymaking (source: Pew & MacArthur)
  - Facilitating dialogue
  - Creating strong data infrastructure
  - Building analytical and technical capacity
For More Information

National Program Office

Supported by The Robert Wood Johnson Foundation

Glen P. Mays, Ph.D., M.P.H.  glen.mays@uky.edu

Email:    NHSPI@uky.edu
Web:      www.nhspi.org
           www.systemsforaction.org
Journal:  www.FrontiersinPHSSR.org
Archive:  works.bepress.com/glen_mays
Blog:     publichealtheconomics.org

Systems for Action

National Coordinating Center
Systems and Services Research to Build a Culture of Health