



Future of Public Health Emergency Data

Sally Phillips, RN, PhD
Dir, Public Health Emergency
Preparedness Research
March 15, 2007





Overview of Presentation

- Needs, availability, and gaps in data sources,
- Data collection mechanisms and issues,
- Data collection tools.
- Pandemic Influenza implications



Data Needs Prior to an Event

- Data to assess and “know” the population health care needs and demographics qat
- Data to assess impact on care
- Data to anticipate the demand for care during and after an event
- Registry issues (ex. special needs populations)



Existing Data Bases for Pre event Planning

- AHRQ Healthcare Cost and Utilization Project
- CDC ATSDR Hazardous Substances Emergency Event Systems
- CDC ATSDR Geographic Information System
- AHA/CMS facilities license capacity data (beds)
- CDC Disease reporting systems
- Trauma registry info
- AHRQ tools (HAvBED, EPRI, Atlas)





Data Needs for Response to an Event

- Data to determine the impact of the event
- Data to determine the response needed to address the immediate needs for health care
- Data to determine how to measure success of the response



Existing Data Bases for Response

- CMS Medicare Beneficiary Database
- OS Burn Bed Database
- FDA Emergency Operations Network Incident Management System
- Critical Infrastructure Data System
- CDC ASTDR Rapid Response Registry
- CDC National Electronic Disease Surveillance Systems
- CDC BioSense
- ESAR-VHP State Data bases



Issues Related to Acquisition and Usability of Data During an Event

- What new data is essential to acquire?
- How can data be collected in a timely and efficient manner?
- How can existing data be used or repackaged to support a response during an event (example)?
 - How can administrative data and survey data be linked in a useable format?
 - GIS/Tables/basis for real time data collection



Data Needs for Recovery

- Data to analyze the impact of the event on the pre event health care “picture” of the affected population
- Structure of data analysis to inform the recovery efforts
- Existing and newly acquired real time data to measure the success of the recovery effort



Existing Data Bases for Recovery Efforts

- CMS Medicare Beneficiary Data Bases
- OS Burn Bed Data Bases/ HHS Bed Reporting/NDMS Bed reporting
- FDA Emergency Operations Network Incident Management System
- AHRQ Medical Expenditure Panel Survey
- CDC ASTDR Rapid Response Registry
- CDC National Electronic Disease Surveillance Systems (NEDSS)
- NIH TOXNET
- AHRQ tool (EPRI, Shuttered Hospital tool, HAvBED)



Summary Comments

- During a disaster/event is not the time to gather this data through surveys
- Data needs to be accessible for multiple uses and in multiple formats
- Process for identification of data gaps (day to day or event only)
- Interagency /Interdepartmental Data Bases
 - DoT
 - NTSA/EMS/Ambulances/School buses
 - DoD
 - NDMS/TRANSCOM





Other Data Issues to be Addressed

- What is the best mechanism to collect and store the data to allow for immediate analysis?
- How should data be analyzed and structured to inform lessons learned after an event for quality improvement?
- How can a data repository be created and housed to support research to build the evidence base for disaster planning, response, and recovery ?



Pandemic Influenza

- Pandemic Influenza presents unique data needs to anticipate the health care impact
- Event is local...
 - What are the health care demographics of the community; health care utilization patterns; healthcare personnel data; bed capacity; daily surveillance characteristics, etc.?
 - How will we measure the event recovery efforts?
 - Data repository for future research





http://www.ahrq.gov/browse/bioterbr.htm

Bioterrorism Planning and Response: Browse Page - Microsoft Internet Explorer provided by AHRQ

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail TV

Address http://www.ahrq.gov/browse/bioterbr.htm Go

Links AHRQ Intranet Slide Library User Slide Library Admin Google

mySearch Google Yahoo! Ask Jeeves LookSmart Highlight WeatherBug Companion 83°

United States Department of Health & Human Services Skip Navigation

AHRQ Agency for Healthcare Research and Quality

Advancing Excellence in Health Care www.ahrq.gov Search

[What's New](#)
 [Browse](#)
 [Información en español](#)

You Are Here: [AHRQ Home](#) > [Public Health Preparedness](#) > [Bioterrorism Planning and Response](#)

Bioterrorism Planning and Response

- [Research Projects](#)
- [Tools and Resources](#)
- [Issue Briefs](#)
- [Conferences and Meetings](#)
- [Evidence Reports](#)
- [Research Findings](#)

[Bioterrorism and Health System Preparedness](#)
A series of free Web-assisted conference calls.

[Subscribe: AHRQ's Bioterrorism Preparedness LISTSERV®](#)

Research Projects

- ▶ AHRQ Bioterrorism Preparedness Research Portfolio
 Fiscal Year [2004-05](#), [2002-03](#)
- ▶ [AHRQ Research Relevant to Bioterrorism Preparedness](#)
- ▶ [Responding to Bioterrorism: AHRQ Helps Clinicians, Health Systems, and Policymakers](#)

Deactivation Notice: Program Announcement PAR-03-130
Building the Evidence to Promote Bioterrorism and Other Public Health Emergency Preparedness in Health Care Systems.

A-Z Quick Menu

Select Topic

Related Topics

Bioterrorism Planning and Response

Council on Private Sector Initiatives (CPSI)

Main Menu

News & Information

- [Clinical Information](#)
- [Consumers & Patients](#)
- [Funding Opportunities](#)
- [Data & Surveys](#)
- [Health IT](#)
- [Research Findings](#)
- [Specific Populations](#)
- [Quality & Patient Safety](#)
- [Public Health Preparedness](#)
- [About AHRQ](#)





For More Information

Contact: Sally Phillips, RN, PhD

E-mail: sally.phillips@ahrq.hhs.gov

pamela.owens@ahrq.hhs.gov

