Future of Public Health Emergency Data

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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

For More Information

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