Public Health Services and Systems Research: Data for Research

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Public Health Systems & Services Research: Data for Research

Quality of Public Health Nursing Care: Prioritizing the Research Agenda
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University of Illinois, Chicago

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Public Health Systems & Services Research

“A field of study that exams the organization, finance and delivery of public health services in communities, and the impact of these services on public health.”


Multidisciplinary field that recognizes and investigates system-level properties and outcomes that result from the dynamic interactions among various components of the public health system

Our Current Research Mission

It's not our job to ask why we got a grant to research why it crossed the road.

It's our job to pretend we're earning it.
PHSSR Logic Model

MACRO-CONTEXT
Social, Political, Economic forces operating in the overall society (e.g., national economy)
Extent of demand and need for public health services within the population
Social values and preferences for products of public health system (e.g., clean water)
External forces such as: Medical delivery system, Technological advances,
Nature of federal-state-local relationships

LOCAL PUBLIC HEALTH SYSTEM

PHS MISSION AND PURPOSE
Goals and how they are to be implemented
Performance of the core functions of assessment, policy development, and assurance

CAPACITY
System Inputs: (NACCHO)
Workforce
Organization/Relationships
Facilities
Funding

PROCESSES
Essential Public Health Services
(CDC 5b Performance Scores)
Outputs:
Programs/services consistent with mandates and community priorities

OUTCOMES
Improved
Organization
Performance
Improved Program
Performance
Improved Outcomes
Key Elements of PHSSR

- Data

Our Discussion today, but don’t forget other components:

- Literature
- Development of researchers and research agendas
- Funding
- Translation
Data and Data Sources

- Identification and Cataloguing PHSSR Data Sets/PHSSR Medical Library Activities
  - National Library of Medicine (NLM)
- Surveys of NALBOH, NACCHO and ASTHO
  - Data Harmonization
- National Public Health Performance Standards Program
- Public Health Accreditation Board (PHAB)
- Community Health Status Indicators; County Health Rankings
To find PHSSR data, go to NLM Database Central


- Click “Browse”

- Click “PHSR” under topic subset
HSRR (Health Services and Sciences Research Resources)

Browse Resources

By Title:
- Datasets
- Instruments/Indices
- Software

By Source:
- Datasets
- Instruments/Indices
- Software

By Topic Subset:
- PHSR (Public Health Systems Research)
HSRR (Health Services and Sciences Research Resources)

Back to Browse

All 123456789

Browse PHSR Titles

1. 1996-7 National Profile of Local Health Departments
2. 1999 Local Health Department Infrastructure Survey
3. 2003 National Survey of Physicians and Quality of Care
4. 2005 National Profile of Local Health Departments
5. AHRQ Quality Indicators
6. American Legacy Longitudinal Tobacco Use Reduction Study
7. American Stop Smoking Intervention Study
8. ASPH Annual Data Report
9. Assessing Core Capacity for Infectious Diseases Surveillance
10. Assessment Protocol for Excellence in Public Health
# 2005 National Profile of Local Health Departments

<table>
<thead>
<tr>
<th>Record Type</th>
<th>Dataset</th>
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<tr>
<td>Topic Subset</td>
<td>PHSR</td>
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<tr>
<td>Source</td>
<td>NACCHO</td>
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<tr>
<td>Source URL</td>
<td><a href="http://www.naccho.org">www.naccho.org</a></td>
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<tr>
<td>Purpose</td>
<td>To characterize local governmental public health infrastructure and practice in the U.S.</td>
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<tr>
<td>Description</td>
<td>The National Profile of LHDs is the only comprehensive survey administered to every LHD in the U.S. It collects a wide variety of data related to LHD infrastructure and practices.</td>
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<tr>
<td>Data Format</td>
<td>Stata</td>
</tr>
<tr>
<td>Restrictions</td>
<td>Expected to be available in August 2006; Data use policy available on NACCHO Web site.</td>
</tr>
<tr>
<td>Price Information</td>
<td>Cost ranges from $200 - $2,000, depending on type of data requested. NACCHO has a process for requesting a fee waiver for researchers without grant support. See Profile Web site (<a href="http://www.naccho.org/topics/infrastructure/2005Profile.cfm">http://www.naccho.org/topics/infrastructure/2005Profile.cfm</a>)</td>
</tr>
<tr>
<td>Method/Technique</td>
<td>Web-based survey directed to primary NACCHO contact. Self-reported data.</td>
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<tr>
<td>Sample Design</td>
<td>Every LHD in the U.S. received the core questionnaire. Random samples of approximately 520 LHDs (stratified by size) received each of the three modules</td>
</tr>
<tr>
<td>Sample Size</td>
<td>Study population = 2844; number of responses = 2300</td>
</tr>
<tr>
<td>Years of Availability</td>
<td>2005</td>
</tr>
<tr>
<td>Population</td>
<td>All local health departments in the U.S. See study report for specifics on inclusions &amp; exclusions</td>
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<tr>
<td>Geographic Region</td>
<td>Entire U.S.</td>
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<td>Unit of Analysis</td>
<td>Local health department</td>
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<tr>
<td>Validity</td>
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<tr>
<td>Keywords</td>
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<td>Date Revised</td>
<td>20-Jun-2006</td>
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The Data Harmonization Work Group consists of members from the Public Health Systems Research (PHSR) community including:
- NACCHO,
- ASTHO
- NALBOH,
- UK
- CDC
- RWJ

Primary goal of the Committee:
- To review and facilitate standardization of the primary public health data survey instruments used by NACCHO, ASTHO and NALBOH

Collaboration will help to achieve:
- create internal consistency across the surveys
- support the advocacy needs of local and state public health departments and local boards of health
- Provide good data for use by PHSSR researchers.

The product will provide:
- Standardized definitions of common words and phrases used within each survey-Data Dictionary
- Common Geographical bases for coordination and mapping
- Psychometrically sound questions; coordination of questions
  - Mission based survey questionnaires
- Collaboration in administration and data sharing, data use policy, storage
Shared Methodologies

- Gathered in sequence through 2010
  - ASTHO: April – June
  - NACCHO: Summer
  - NALBOH: Fall

- Use of a single vendor (PCE) for 3 web-based instruments
Data Harmonization Outcome: Part A

Each of the three Profiles surveys are using the same Geographic and Demographic questions (what we are calling Part A).
Each of the three Profiles surveys, however, focus on different topics. Each survey has a distinct, different Part B with questions of interest for each organization.

Even in these individualized Part Bs, however, there has been a concerted effort to align questions on similar topics by using shared or parallel language in the questions.

Knowing what the other surveys are gathering, associations have been able to shorten their surveys somewhat.
Data Harmonization Outcome: Part C

Each of the three Profiles surveys are using the similar cross-thematic questions addressing key areas of focus for RWJF initiatives (what we are calling Part C).
Teamwork

• Interactive colleagues in parallel positions at all three associations

• Profiles Work Groups at all three associations

• ASTHO and NACCHO gathering information on local boards of health to assist NALBOH
National Public Health Performance Standards Program

- NPHPSP includes three instruments:
  - Local Public Health Governance Performance Assessment Instrument (LGI)
    - Focuses on governing body such as LBOH
  - Local Public Health System Performance Assessment Instrument (LSI)
    - Focuses on local public health system, not just local health department
  - State Public Health System Performance Assessment instrument
    - Focuses on state public health system, not just state health department
Antecedents to the Public Health Accreditation Board (PHAB)

IOM
In 2003, The Future of the Public’s Health called for a National Steering Committee for PHD Accreditation

CDC
Future’s Initiative Identified Accreditation as a Key Strategy

Robert Wood Johnson Foundation

RWJF
2004 Gathering of RWJF of PH Stakeholders launch Exploring Accreditation Program
Proposed Draft Standards for PHAB Beta Test

The Exploring Accreditation Report (Winter 2006-2007) is the foundational document for the development of a voluntary national accreditation program and its standards. The draft standards were developed by a nationwide workgroup through review and use of 15 sets of state and national standards, including NACCHO’s Operational Definition (including metrics), NPHPSP state and local, Project Public Health Ready, and results of ASTHO’s State Public Health Survey. The first version of Proposed PHAB Standards was reviewed through an alpha test with two state agencies and six local health departments. The revised proposed standards were reviewed through an extensive, formal vetting process that resulted in more than 3,700 comments from all parts of public health throughout the US. This July 10, 2009 version reflects revisions to the Standards to address these comments.
PHAB Standard Example

- Domain 1: Conduct and disseminate assessments focused on population health status and public health issues facing the community
- Collect and Maintain Population Health Data

- Standard 1.1 B: Collect and maintain reliable, comparable, and valid data that provide information on conditions of public health importance and on the health status of the population.

- Standard 1.2 B: Analyze public health data to identify health problems, environmental public health hazards, and social and economic risks that affect the public’s health.

- Use Data for Public Health Action

- Standard 1.3 B: Provide and use the results of health data analysis to develop recommendations regarding public health policy, processes, programs or interventions.
County Health Rankings

- *County Health Rankings*, the first set of reports to rank the overall health of every county in all 50 states were released on Feb. 17, 2010 by the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute. The project builds on the University of Wisconsin Population Health Institute's experience in producing the *Wisconsin County Health Rankings* annually since 2003. The *County Health Rankings* will be released again in 2011 and 2012.

- The *County Health Rankings* are the first to rank the overall health of the counties in all 50 states – more than 3,000 total – by using a standard formula to measure how healthy people are and how long they live. The online report will include a snapshot of each county in every state with an interactive map comparing each county’s overall health ranking.
Literature:
Bibliographic Resources
Research and Practice

http://www.publichealthsystems.org/cphssr/MembershipResources/1411/EndNoteLibrary
EndNote Library

Description of the EndNote Library

EndNote X2 is an online search tool, a reference database, and a bibliography creator. It allows users to search online bibliographic databases, import references directly into a personalized library for storing, managing and searching, and formatting citations within Microsoft Word. The EndNote files are compatible with other popular programs including Reference Manager, ProCite and RefWorks. More information about EndNote can be located at http://www.EndNote.com. Your institution may have a site license to this product, or a similar one, so you might check with your librarian to make inquiry. In the event you do not have Endnote X2, or a similar program, resident on your computer, we have also included a Word file that contains a bibliography of the references in the file.

Our intention is that the library provided on this website will stand as the cornerstone for a database of PHSSR references. These references reflect our effort to collocate articles and reports from the field of PHSSR including key papers, authors, and the references cited from each of those. We hope that by compiling these into one, easily navigable file, researchers will be able to eliminate the tedious steps of locating documents, downloading them into a format suitable for publication, and retyping them in their manuscripts. This database, or library, will continue to grow and evolve as our data mining efforts increase. Individuals who subscribe to our online newsletter and possess this file will be able to constantly update what will become a comprehensive database of PHSSR literature.

PHSSR EndNote Library prepared by Rick Ingram, M.Ed., Rick Brewer, M.S.L.S. & Robert Shapiro, B.A.

Download the Entire Updated PHSSR Reference Library as of July 2008
Available in Word (.doc) APA 5th Edition or New England Journal of Medicine (NEJM) Style or EndNote (.enl)

Download Only the Updates to Add to Your Existing PHSSR Reference Library
Available in Word (.doc) APA 5th Edition or NEJM Style or EndNote (.enl)
PHSSR Research Activities: Workforce

- Workforce and leadership configurations in LPHAs
  - May have an impact on important health outcomes being addressed by LPHAs
  - Should be taken into account in strategic planning for core service delivery and population level assessment/planning activities
- Nurses & nurse leaders have a strong relationship with the types of activities conducted in a LPHA—particularly in rural areas
  - The “grave shortage of nurses” (ASTHO, 2008) could have a particularly heavy impact on rural jurisdictions
- Stronger efforts are needed to educate nurses in environmental health

- Betty Bekemeier, Keeneland Conference 2008
RWJF/CDC Meeting Preparatory Work

- Designed to put RWJ and CDC on the same page, vis-à-vis PHSSR research agendas
- Systematic Reviews
  - Quality Improvement
  - Workforce
  - Structure
  - Methodology
- Surveys of current research and publication
- White Paper Summarizing all of the above
- Meeting Scheduled early January
- Watch for results at Keeneland Conference
“O.K., let's slowly lower in the grant money.”
“The least of learning is done in the classrooms."
Thomas Merton
That’s All Folks!
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Questions?