Vital Statistics: The State of the Public Health PBRN Program

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Vital Statistics:
The State of the Public Health PBRN Program

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Public Health PBRN Grantee Meeting • Lexington, KY • 08 April 2013
Reach of Public Health PBRNs

- First cohort (December 2008 start-up)
- Second cohort (January 2010 start-up)
- Affiliate/Emerging PBRNs (2011-13)

New in 2012-13
PBRN funding history:
By the numbers

12 Developmental Awards, 2009-2011
10 Research Implementation Awards (RIAs), 2010-2012
12 Quick Strike Research Fund Awards (QSRFs), 2009-2013
8 Research Acceleration and Capacity Enhancement (RACE) awards, 2011-13
6 Multi-network Practice and Outcome Variation Examination (MPROVE) awards, 2012-13
2 PBRN Junior Investigator Mentored (JIM) awards, 2012-13
?? Delivery and Cost Study (DACS) awards, 2013-14
PBRN Research Trajectory

- Delivery System Organization and Structure
- Practice Variation
- Volume, Intensity, and Quality of Delivery
- Cost of Delivery
- Value and ROI of Public Health
## PBRN research production:
### By the numbers 2012-13

<table>
<thead>
<tr>
<th>Count</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Journal articles published or in press in 2012-13</td>
</tr>
<tr>
<td></td>
<td>- Journal of Public Health Management and Practice</td>
</tr>
<tr>
<td></td>
<td>- American Journal of Preventive Medicine</td>
</tr>
<tr>
<td></td>
<td>- Public Health Reports</td>
</tr>
<tr>
<td></td>
<td>- Frontiers in Public Health Services &amp; Systems Research</td>
</tr>
<tr>
<td>72</td>
<td>Scientific presentations at national meetings</td>
</tr>
<tr>
<td></td>
<td>- American Public Health Association</td>
</tr>
<tr>
<td></td>
<td>- AcademyHealth Annual Research Meeting</td>
</tr>
<tr>
<td></td>
<td>- American Society for Health Economics</td>
</tr>
<tr>
<td></td>
<td>- Keeneland Conference</td>
</tr>
<tr>
<td></td>
<td>- NACCHO Annual Meeting</td>
</tr>
<tr>
<td></td>
<td>- National Open Forum on QI in Public Health</td>
</tr>
</tbody>
</table>
PBRN research translation:
Invited policy briefings, 2012-13

- Association of State and Territorial Health Officials
- HHS Assistant Secretary for Health
- HHS Assistant Secretary for Preparedness and Response
- Institute of Medicine, National Academy of Sciences
- National Institutes of Health, NIDCR
- U.S. Agency for Healthcare Research and Quality
- U.S. Centers for Disease Control and Prevention
- U.S. Congressional Budget Office
- U.S. Government Accountability Office
- U.S. Health Resources and Services Administration
- U.S. Food and Drug Administration
- White House Office of Management and Budget
PBRN research translation: Invited lectures and presentations, 2012-13

**Academic Institutions**
- University of Chicago
- University of Michigan
- University of Alabama-Birmingham
- University of Nebraska Medical Center
- University of Texas Medical Branch
- Wright State University

**State Public Health Association Meetings**
- Arkansas
- Colorado
- Connecticut
- Kentucky
- Minnesota
- Ohio
- Washington
PBRN research: New dissemination vehicles

Frontiers in Public Health Services & Systems Research
- 6 issues
- 32 articles published to date
>1000 downloads per month
- Publication agreements with AJPM and ARPH

Re-ACT Podcasts
- 2 editions produced
- More in production

Digital Commons research archive
> 27,000 downloads
PBRN research:
Special research projects

☑ Public Health Activities and Services Tracking Study

☑ PBRN Network Analysis

☑ National Longitudinal Study of Public Health Systems
PBRN research: Network Analysis

Network Structure of the Connecticut Public Health PBRN • 2011-12

http://works.bepress.com/glen_mays/46/
## PBRN research: Network Analysis

### Local Health Departments Engaged in Research Implementation & Translation Activities During Past 12 months

<table>
<thead>
<tr>
<th>Activity</th>
<th>PBRN Agencies</th>
<th>National Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Percent/ Mean</td>
<td>Percent/ Mean</td>
</tr>
<tr>
<td>Identifying research topics</td>
<td>94.1%</td>
<td>27.5%</td>
</tr>
<tr>
<td>Planning/designing studies</td>
<td>81.6%</td>
<td>15.8%</td>
</tr>
<tr>
<td>Recruitment, data collection &amp; analysis</td>
<td>79.6%</td>
<td>50.3%</td>
</tr>
<tr>
<td>Disseminating study results</td>
<td>84.5%</td>
<td>36.6%</td>
</tr>
<tr>
<td>Applying findings in own organization</td>
<td>87.4%</td>
<td>32.1%</td>
</tr>
<tr>
<td>Helping others apply findings</td>
<td>76.5%</td>
<td>18.0%</td>
</tr>
<tr>
<td>Research implementation composite</td>
<td>84.04 (27.38)</td>
<td>30.20 (31.38)</td>
</tr>
</tbody>
</table>

N: 209 505
PBRN research: National Longitudinal Survey of Public Health Systems

Figure 1: Proportion of Public Health Activities Available in the Jurisdiction

http://works.bepress.com/glen_mays/67/
PBRN research: National Longitudinal Survey of Public Health Systems

Delivery of recommended public health activities

% of activities

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

1998 2006 2012

↑ 10%
↓ 5%

Organizations engaged in local public health delivery

<table>
<thead>
<tr>
<th>% Change 2006-2012</th>
<th>Scope of Delivery 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-50%</td>
</tr>
<tr>
<td>Local health agency</td>
<td></td>
</tr>
<tr>
<td>Other local government</td>
<td></td>
</tr>
<tr>
<td>State health agency</td>
<td></td>
</tr>
<tr>
<td>Other state government</td>
<td></td>
</tr>
<tr>
<td>Hospitals</td>
<td></td>
</tr>
<tr>
<td>Physician practices</td>
<td></td>
</tr>
<tr>
<td>Community health centers</td>
<td></td>
</tr>
<tr>
<td>Health insurers</td>
<td></td>
</tr>
<tr>
<td>Employers/business</td>
<td></td>
</tr>
<tr>
<td>Schools</td>
<td></td>
</tr>
<tr>
<td>CBOs</td>
<td></td>
</tr>
</tbody>
</table>

PBRN research: National Longitudinal Survey of Public Health Systems
PBRN research: Networking and Capacity-building

- Monthly Virtual Meeting and Research-in-Progress Briefing
- Newsletter
- On demand technical assistance
- Guidance documents
Overview of the Public Health PBRN Program
http://works.bepress.com/glen_mays/18/

Leading Improvement through Inquiry: PBRNs in Public Health
http://works.bepress.com/glen_mays/83/

Current Research Projects of the Public Health PBRN Program
http://works.bepress.com/glen_mays/17/

Designing a Successful PBRN in Public Health: Key Concepts
http://works.bepress.com/glen_mays/40/

Start-Up Activities for Public Health PBRNs
http://works.bepress.com/glen_mays/34/

Building a Sustainable Public Health PBRN: Securing Ongoing Funding
http://works.bepress.com/glen_mays/20/

Using PBRN Research to Inform Policy and Practice
http://works.bepress.com/glen_mays/19/

Initial Research and Evaluation Concepts for Public Health PBRNs
http://works.bepress.com/glen_mays/35/

Patterns of Interaction in Public Health PBRNs: Insights from Network Analysis
http://works.bepress.com/glen_mays/46/
PBRN research: Guidance documents

- Expanding Delivery System Research in Public Health Settings: Lessons from Practice-Based Research Networks
- Overview of the National Longitudinal Survey of Public Health Systems
- Finding Order in Complexity: a Typology of Public Health Delivery Systems
The End Game: A “rapid-learning system” in public health

In a learning health care system, research influences practice and practice influences research.

- **Evaluate**
  - Collect data and analyze results to show what does and does not work.

- **Implement**
  - Apply the plan in pilot and control settings.

- **Design**
  - Design care and evaluation based on evidence generated here and elsewhere.

- **Adjust**
  - Use evidence to influence continual improvement.

- **Disseminate**
  - Share results to improve care for everyone.

- **Internal and External Scan**
  - Identify problems and potentially innovative solutions.

For More Information

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Web: www.publichealthsystems.org
Journal: www.FrontiersinPHSSR.org
Research archive: http://works.bepress.com/glen_mays

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