Vital Statistics: The State of the Public Health PBRN Program

Glen Mays, University of Kentucky

Available at: https://works.bepress.com/glen_mays/88/
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

21 Journal articles published or in press in 2012-13
   - Journal of Public Health Management and Practice
   - American Journal of Preventive Medicine
   - Public Health Reports
   - Frontiers in Public Health Services & Systems Research

72 Scientific presentations at national meetings
   - American Public Health Association
   - AcademyHealth Annual Research Meeting
   - American Society for Health Economics
   - Keeneland Conference
   - NACCHO Annual Meeting
   - National Open Forum on QI in Public Health
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 Percent/Mean</th>
<th>National Sample Percent/Mean</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>N</td>
<td>209</td>
<td>505</td>
</tr>
</tbody>
</table>
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

- Assurance
- Policy
- Assessment

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>-50%</td>
<td>10%</td>
</tr>
<tr>
<td>-30%</td>
<td>30%</td>
</tr>
<tr>
<td>-10%</td>
<td>50%</td>
</tr>
</tbody>
</table>

- Local health agency
- Other local government
- State health agency
- Other state government
- Hospitals
- Physician practices
- Community health centers
- Health insurers
- Employers/business
- Schools
- CBOs

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
PBRN research:
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
  http://works.bepress.com/glen_mays/59/
- Overview of the National Longitudinal Survey of Public Health Systems
  http://works.bepress.com/glen_mays/33/
- Finding Order in Complexity: a Typology of Public Health Delivery Systems
  http://works.bepress.com/glen_mays/39/
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
