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New Directions in Public Health Systems Research: The U.S. Context

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New Directions in Public Health Systems Research: the U.S. Context

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Systems for Action

National Coordinating Center

Systems and Services Research to Build a Culture of Health

Where we've been: 1998-2015

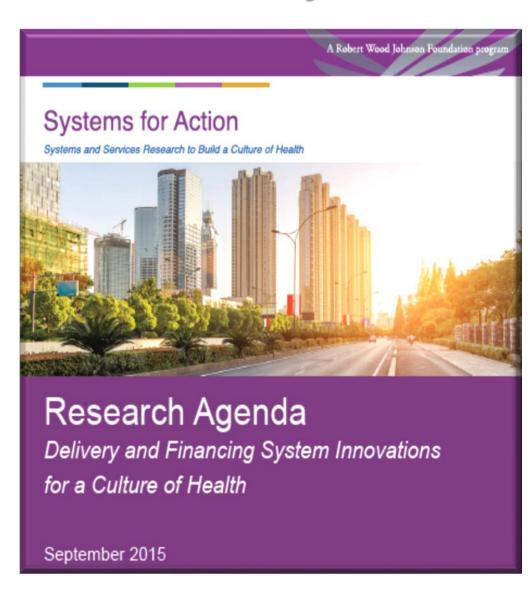
- Measuring variation in the performance of core public health functions
- Exploring causes of variation
 - Spending
 - Staffing
 - Governance and organizational structures
- Exploring consequences of variation
 - Health outcomes
 - Medical expenditures
 - Health disparities

Where we're headed: 2016 and beyond

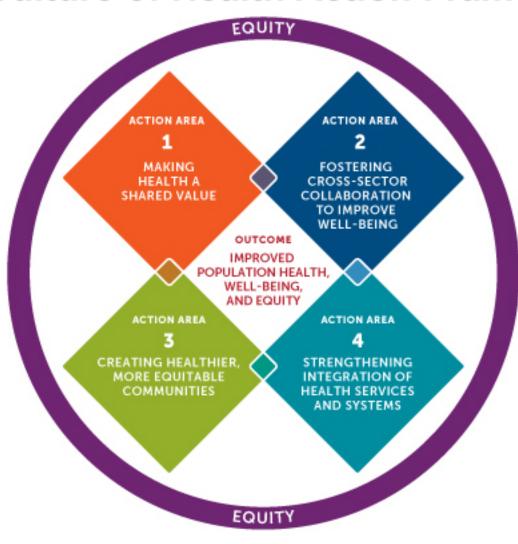
Identify strategies to align delivery and financing systems for *public health*, *medical care*, and social services in ways that improve population health

- Health and well-being
- Equity
- Efficiency

www.systemsforaction.org



The Culture of Health Action Framework

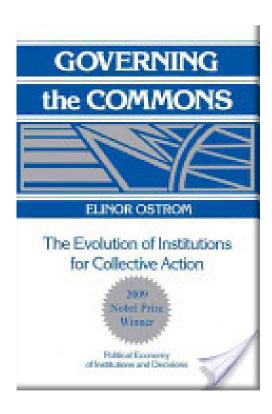




What Foundational Capabilities support collective actions in health?

Public health as chief health strategist for the system:

- Articulate population health needs & priorities
- Engage community stakeholders
- Plan with clear roles & responsibilities
- Recruit & leverage resources across sectors
- Develop and enforce policies
- Ensure coordination across sectors
- Promote equity and target disparities
- Support evidence-based practices
- Monitor and feed back results
- Ensure transparency & accountability



Mays GP. National Academy of Medicine Discussion Paper. 2014. http://nam.edu/wp-content/uploads/2015/06/EconomicsOfAdaptation.pdf

Comprehensive Public Health Systems

One of RWJF's 40 Culture of Health National Metrics

- Broad scope of Foundational Capabilities
- Dense network of multi-sector relationships
- Central actors to coordinate actions

Access to public health

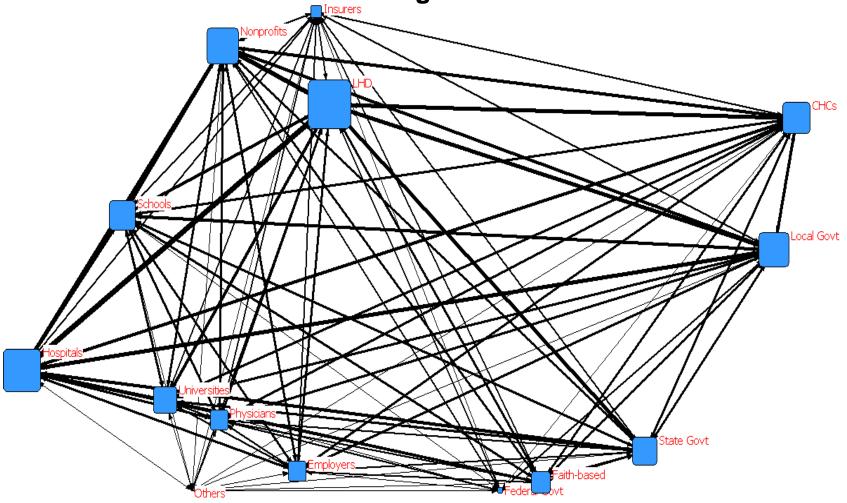
Overall, 47.2 percent of the population is covered by a comprehensive public health system. Individuals are more likely to have access if they are non-White (51.5 percent vs. 45.5 percent White) or live in a metropolitan area (48.7 percent vs. 34.1 percent in nonmetropolitan areas).

47.2%

of population served by a comprehensive public health system

Comprehensive Public Health Systems

U.S. Average in 2014

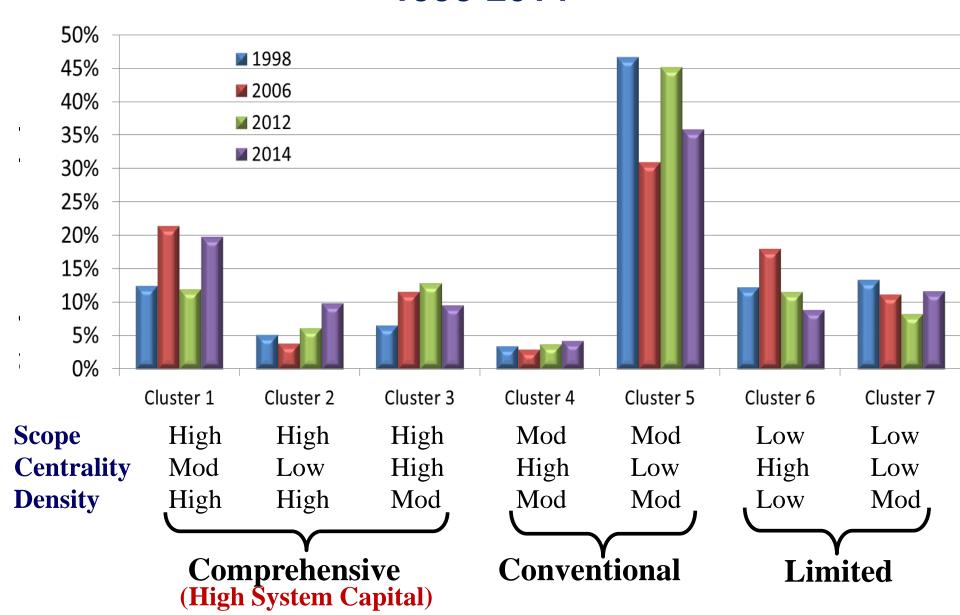


Node size = degree centrality
Line size = % activities jointly contributed (tie strength)

What do we know about the benefits of Comprehensive Public Health Systems?

- Greater concordance with national recommendations
 - IOM Core Functions
 - Essential Public Health Services
 - PHAB national accreditation standards
 - Foundational Public Health Services
- Fewer governmental resources per capita: more for less
- Over time, larger gains in population health

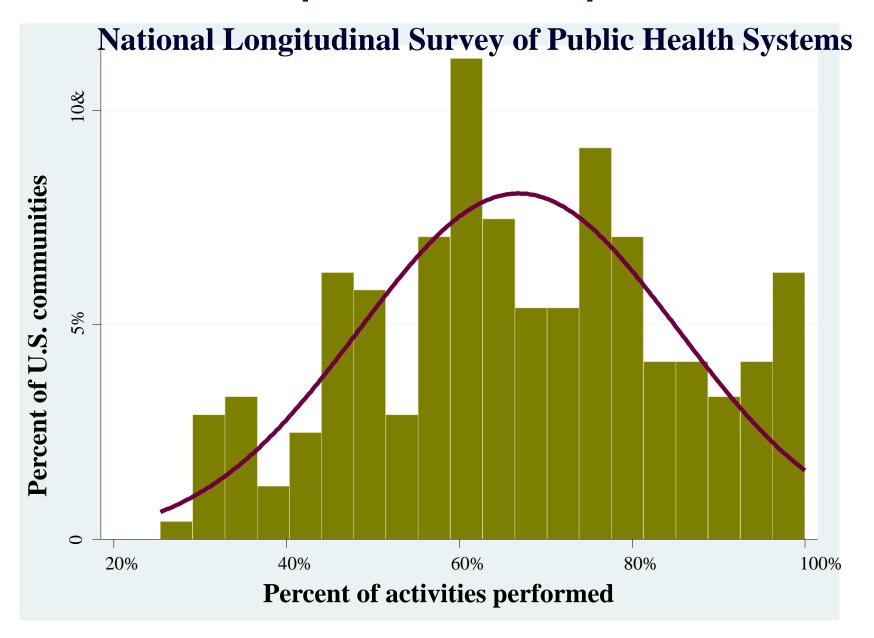
Prevalence of Public Health System Configurations 1998-2014



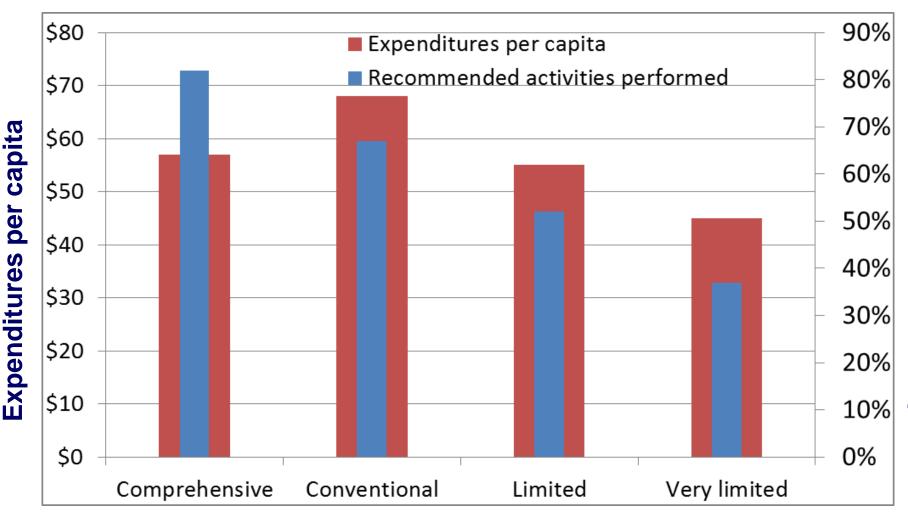
Changes in system prevalence and coverage

System Capital Measures	1998	2006	2012	2014	2014 (<100k)
Comprehensive systems					
% of communities	24.2%	36.9%	31.1%	32.7%	25.7%
% of population	25.0%	50.8%	47.7%	47.2%	36.6%
Conventional systems					
% of communities	50.1%	33.9%	49.0%	40.1%	57.6%
% of population	46.9%	25.8%	36.3%	32.5%	47.3%
Limited systems					
% of communities	25.6%	29.2%	19.9%	20.6%	16.7%
% of population	28.1%	23.4%	16.0%	19.6%	16.1%

Variation in public health implementation



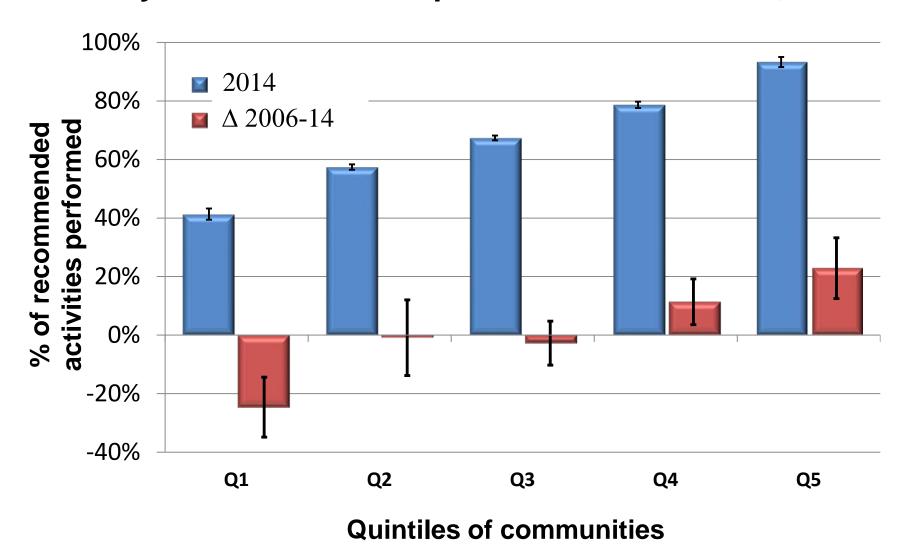
Comprehensive systems do more with less



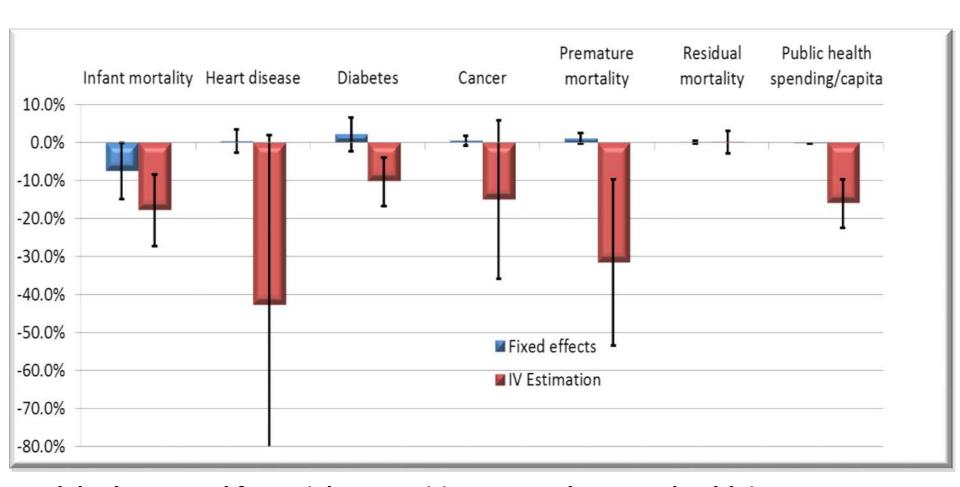
Type of delivery system

performed

Equity in public health implementation Delivery of recommended public health activities, 2006-14



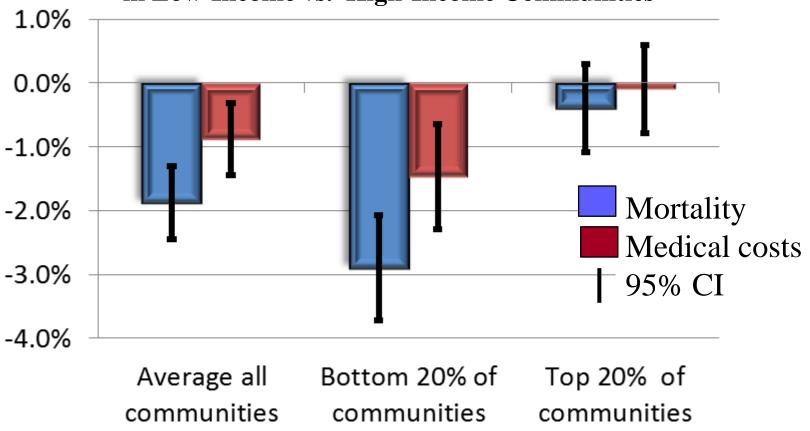
Health and economic impact of comprehensive systems



Models also control for racial composition, unemployment, health insurance coverage, educational attainment, age composition, and state and year fixed effects. N=779 community-years **p<0.05 *p<0.10

Making the case for equity: larger gains in low-resource communities

Effects of Comprehensive Public Health Systems in Low-Income vs. High-Income Communities



Log IV regression estimates controlling for community-level and state-level characteristics

Opportunities on the horizon

- Deeper exploration of system capabilities for intervening on social & economic determinants
- Advancing implementation science in public health systems: scale and spread successes
- Learning from cross-national comparisons of system structures and performance

For More Information

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Supported by The Robert Wood Johnson Foundation

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Journal: www.FrontiersinPHSSR.org

Archive: works.bepress.com/glen_mays

Blog: publichealtheconomics.org



For more information

- Defining Comprehensive Public Health Delivery Systems https://works.bepress.com/glen_mays/198/
- CPHS methodology: Milbank Quarterly 2010 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2888010/
- Health/economic benefits of comprehensive systems:
 AJPH 2015
 http://www.ncbi.nlm.nih.gov/pubmed/25689201
- Longitudinal Survey of Public Health Systems http://works.bepress.com/glen_mays/38/
- Customized system feedback report <u>http://works.bepress.com/glen_mays/67/</u>