Public Health PBRN Monthly Virtual Meeting November 20, 2014

Research in Progress Presentation by the PHAST Team out of the WA PH PBRN:

Advancing the standardization of measures depicting local public health system measures: Progress from PHAST Presented by Betty Bekemeier, Greg Whitman, and Jason Young

Please remember to mute your telephone/computer speakers during the presentation

To mute your telephone press *6, to unmute #6

Conference Phone: 877-394-0659

Conference Code: 7754838037#



at the University of Kentucky College of Public Health



Practice-Based Research Networks



PHAST: Developing the data & evidence for public health services research & decision-making

Betty Bekemeier, Greg Whitman, Seungeun Park, Jason Young

2014 PBRN Webinar

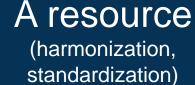
PUBLIC HEALTH
ALWAYS WORKING FOR A SAFER AND
HEALTHIER WASHINGTON

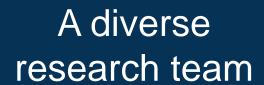


PHAST

(Public Health Activities & Services Tracking)











For what populations?

Under what conditions?



PHAST 1.0

PHAST 2.0

existing data

prospective data

harmonization

standardization

compare few states

compare many states

compare few measures

compare many measures

A resource

(harmonization, standardization)

PHAST 1.0

PHAST 2.0



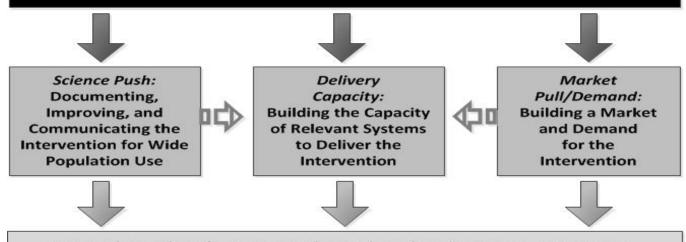
Public Health Activities and Services Tracking (PHAST)

- Data Inventory

		500	rch: A		
Data Type ⊕ Data O Meta	data				
State	CT □FL □MA [MN DNC DNE	ONY COH C	WA DWI DUS	
Jurisdiction	Agency County	□n/a □ City □	State CHB		
MSS CSHCN		nditures 🗆 budget		□ MCH □ immuniz □ workforce/FTE □ o	
Or search within Search Clea	content and notes:				
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You are search and keywords:		data, at State: <u>FL</u> , File Type	in Jurisdiction: <u>Al</u> Data Dates	Vany, in Service Ar	rea: <u>food inspecti</u> State
WC, CD, immunization, MCH, food inspection, expenditures, EH	FL_FY 2010 2011.xlsx	data	2010	LHD	FL
Content		Sources		Notes	
Program expenditure break down		Attached in 1/4/12 email from Mike Morris [MEMorris@uams.edu]			

Bridging the Research - Practice Gap

GOAL: To increase the adoption, reach and impact of evidence-based cancer prevention and care



- Increase the number of systems providing evidence-based cancer prevention & care
- Increase the number of practitioners providing evidence-based cancer prevention & care
- Increase then number of individuals receiving evidence-based cancer prevention & care



Ultimate Goal:
Improve
Population Health
and
Patient Well Being

Figure 1. Push-Pull Infrastructure Model, adapted from Green & Glasgow (2006), and published in Dearing & Kreuter (2010)

GOAL: Establish the collection of standardized and public health service delivery data to develop evidence for public health services research & decision-making

Science/Information Push (New information)

- Collecting MPROVE measures effectively
- Standardized and vetted MPROVE measures available



Delivery capacity/ Distribution System (Knowledge Translation)

- Embedding the MPROVE measures in ongoing state health reporting systems
- Pipeline (data repository, inventory & Wiki)
- Website → Demo website
- Data visualization → Tableau
- Advisory committee



Practice Pull/demand (End-user Need/Motivation)

- States/LHD feedback & comments
- Data needs for optimizing LHD service delivery and decision-making → needs assessment for data Visualization
- Performance management needs



Objectives

- Improve the number of states collecting standardized local public health services data
- Collect multiple years of data
- Assure data accessibility
- Make use of data for evidence-based practice and performance management
- Better manage, support, understand, and monitor the nature and range of local public health activities



- Standardized integrated data system
- Standardized documented service data
- Increase access to data
- Evidence-based practice
- Evidence-based decision making

Building a "Culture of Information"

Creating Information

- Codebook: Data definitions determine what are valid data
- Process: Establish procedures for
 - 1. Validation checks & queries to data providers
 - 2. Nuts & bolts of data reporting, sharing, dissemination

Using Information

- Pilot website in partnership with WA DOH PHIP Office
- WA's Activities & Services Inventory (initial proxy for MPROVE measures)
- Adoption strategy: involving LHD leaders
- User-centered design process

Creating Information

Refining the MPROVE measures

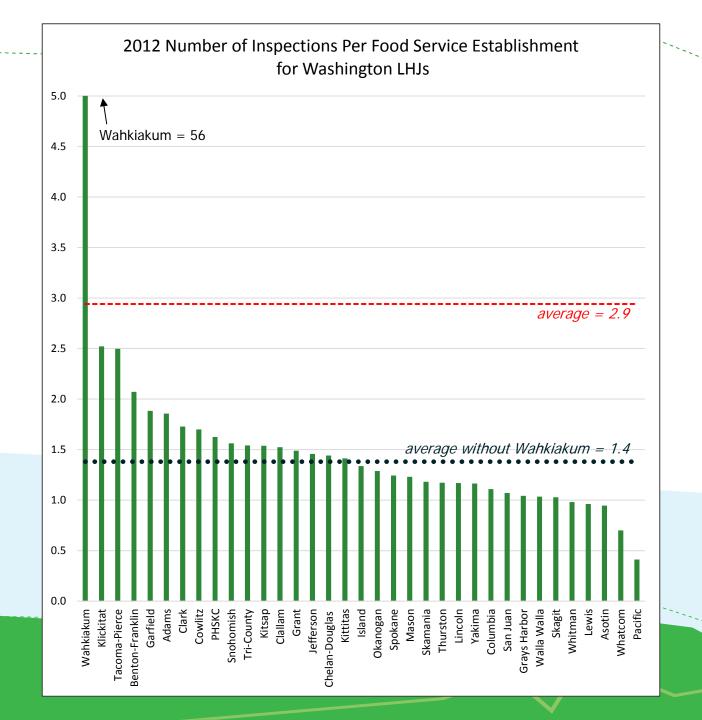
- Working from original MPROVE measures
- Determine what worked & what didn't... WHY
- Identify adaptations to be made

How?

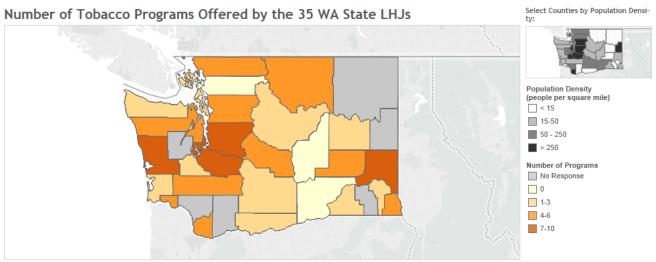
- Examination of 6-state dataset for completeness, face validity
- Interviews with MPROVE PBRN investigators
- Ongoing review by Data Governance Board

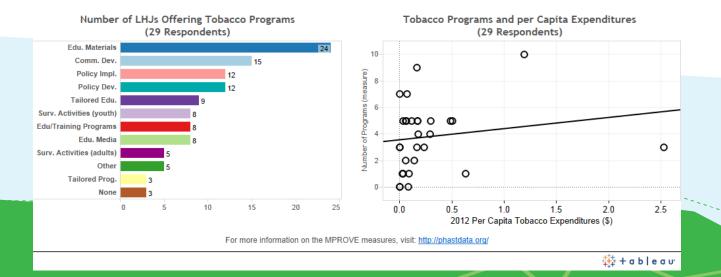
Preliminary results

- Not enough time/resources built in to original MPROVE grants
- Too many measures, not enough rationale provided
- Lots of interest in refining measures & improving process



Using Information: Interactive visualizations





DACS Visualization pilot study

Purpose

■ To make accessible annual LHD service and financial data to WA public health leaders in a meaningful form for decision-making by creating data visualizations that will meet planning and policy development needs.

Study Plan

- a. Needs assessment
- b. Prepare Displays
- c. Evaluation: usability test
- Data visualization will connect between information push from research and data demand from practitioner for evidence-based practice and better decision-making

Needs Assessment

 Phone interview with 4 LHD Directors and 3 financial person in WA with 7 semi-structured questions

- Questions asked...e.g.
 - When you make decisions regarding your LHJ's budget and services, what quantitative data/resources/information do you examine or use?
 - What would you like to have depicted and at what level of detail about DACS data?
 - Are there comparisons you would like to see between your LHJ's funding and/or services and some other group/category of LHJs or comparison with the state?

Needs Assessment: Preliminary themes

Simplicity

"... For boards, the simpler, the better", "... Simplicity is the most important when we present the data to the Board..."

Comparability

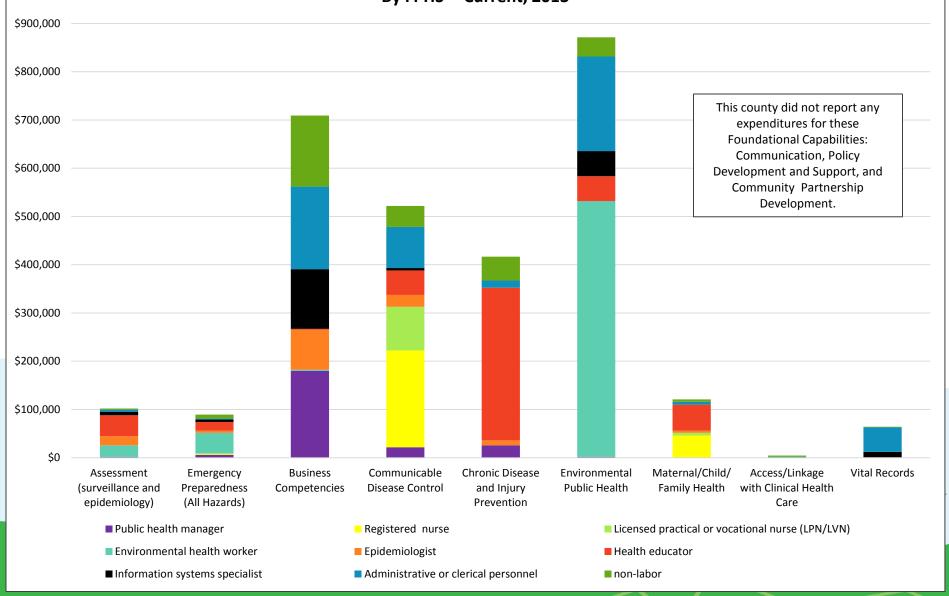
"...I can give the Board of Health a number.. That won't mean a lot to them unless they can compare it to something else....", "... we are more often going to compare ourselves to counties with similar county size and similar characteristics such as Whatcom (Whatcom is the best match with us)...."

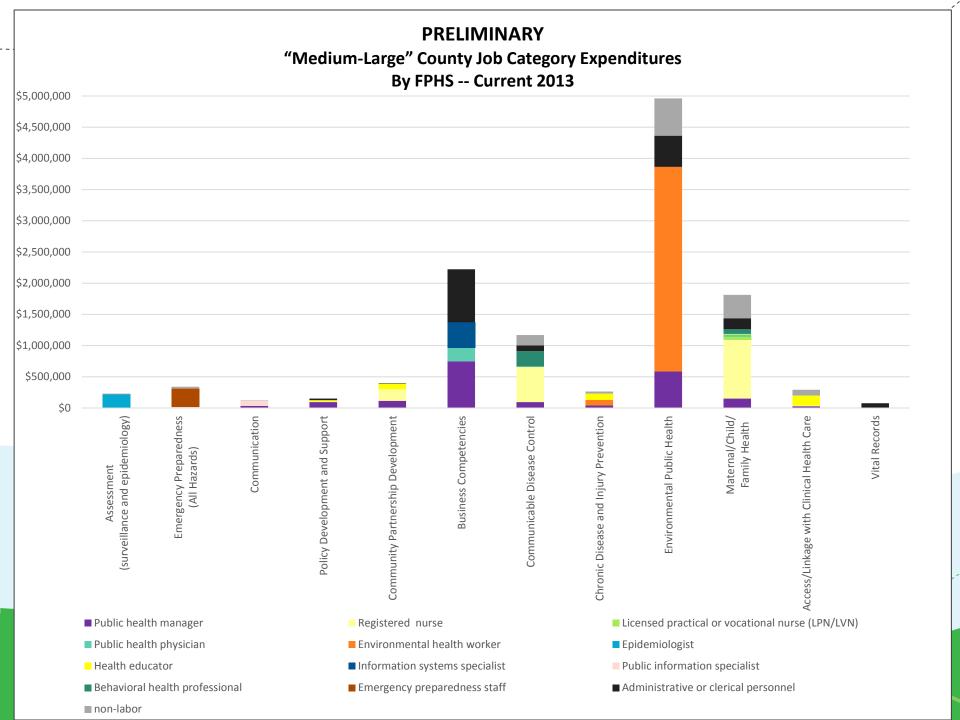
Captivating

"....For people like Board of Health, needs to be brief and captivating", "I like to use visual displays in presenting information to other people, the board, other community partners...."

PRELIMINARY

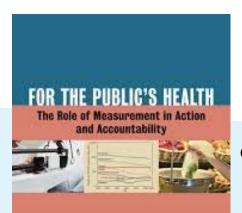
"Small" County Job Category Expenditures By FPHS -- Current, 2013





Data "Demand"

- Data potential
 - Detailed administrative data can help answer important research questions for practice.
- Data limitations



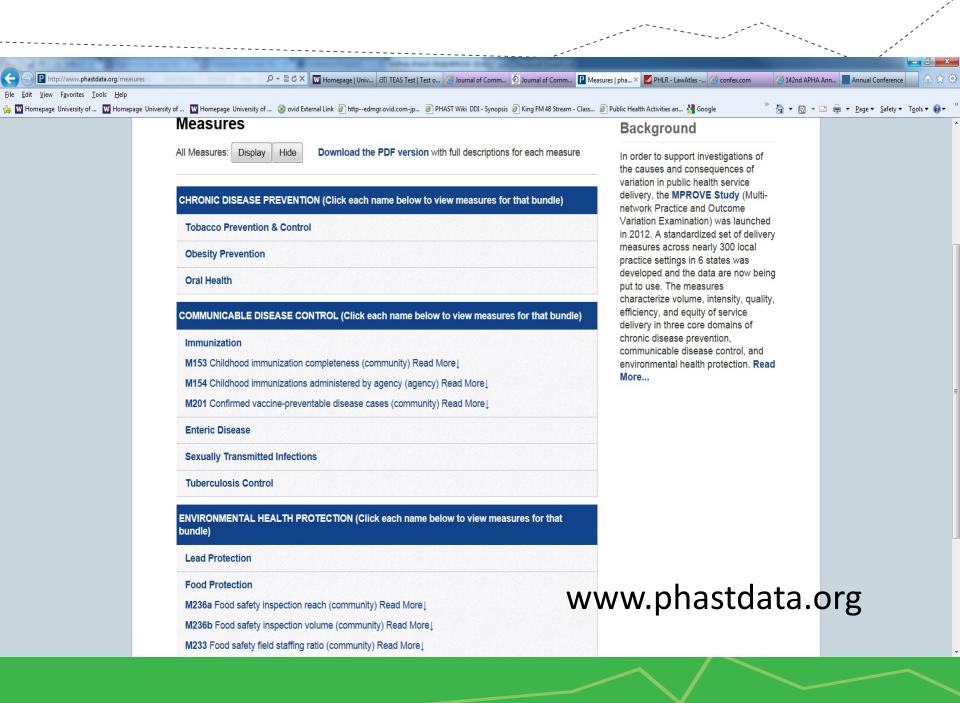
- Inhibit capacity to measure cost, performance, & more outcomes of prevention efforts
- Standardized data are needed!!!



PHAST—Standardizing PH Service Data

- **RIGOR:** Working from original MPROVE measures to refine measures & processes
- FACILITATION: Support interested states
- RELEVANCE:
 - Accreditation,
 - Advocacy,
 - Data-driven decision-making,
 - Demonstrating use of resources
- . LICED OFNITEDED
- USER-CENTERED
 - Participatory design approach





PHAST Papers

- ▶ Bekemeier, B., Yip, M. P., Dunbar, M., Whitman, G., & Kwan-Gett, T. (2014, under review). *Local Health Department Food Safety and Sanitation Expenditures and Reductions in Enteric Disease*.
- ▶ Bekemeier, B., Pantazis, A., Dunbar, M., & Herting, J. R. (2014, under review). *Using available data to classify local health department approaches to service*.
- ▶ Bekemeier, B., Yang, Y., Dunbar, M., Pantazis, A., & Grembowski, D. (2014). Targeted Health Department Expenditures Benefit Birth Outcomes at the County Level, *American Journal of Preventive Medicine*, 44(6), 569-577.
- ▶ Klaiman, T., Pantazis, A., & Bekemeier, B. (2014). A Method for Identifying Positive Deviant Local Health Departments in Maternal and Child Health. *Frontiers in Public Health Services and Systems Research*, 3(2), Article 5. http://uknowledge.uky.edu/frontiersinphssr/vol3/iss2/5
- ▶ Bekemeier, B. (2012). Tracking local public health services to inform decision making. *Northwest Public Health*, Spring/Summer 29(1),14-16. http://www.nwpublichealth.org/archives/s2012/tracking-local-public-health-services-to-inform-decision-making.
- ▶ Bekemeier, B., Bryan, M., Dunbar, M., & Fowler, C. (2012). Local health department provision of WIC Services relative to local "need"— examining 3 states and 5 years. *Frontiers in Public Health Services and Systems Research*, 1(1), Article 2. http://uknowledge.uky.edu/frontiersinphssr/vol1/iss1/2
- ▶ Bekemeier, B., Dunbar, M., Bryan, M., & Morris, M. (2012). Local health departments and specific Maternal and Child Health expenditures: Relationships between spending and need. *Journal of Public Health Management and Practice*, 18(6), 615-622.

www.PHASTdata.org

Other Meeting Agenda Items

PBRN Research Updates

 MPROVE/DACS/DIRECTIVE/PHAST coordination calls to resume in January

Upcoming Events

 7th Annual Conference on the Science of Dissemination and Implementation in Health, AcademyHealth and NIH Dec 8-9, 2014. Bethesda, MD.

Dissemination Opportunities

- Please send PBRN Presentations from APHA or D&I to Coordinating Center
- Keeneland Abstract Submission is open
- Frontiers/AJPH partnership launched this week

Other Meeting Agenda Items

Website Update

- Work-in-progress: please send all comments/suggestions/corrections to Kara.Richardson@uky.edu
- Please continue to send your products

Presentation schedule

Presentation Schedule for 2014

January 16 Tennessee PBRN

February 20 Nebraska PBRN

March 20 North Carolina PRBN

May 15 New York PBRN

June 19 California PBRN

July 17 Connecticut PBRN

August 21 Colorado PBRN

September 18 Ohio PBRN

October 16 Minnesota PBRN

November 20 Washington PBRN

December 18 New Hampshire PBRN

Beginning 2014 we will combine Research-in-Progress presentations with the larger PHSSR grantee Research-in-Progress presentations.

PHSSR Research-in-Progress Webinars- 12:00 to 1:00pm

Dec 3 – Relationship Between Public Health Workforce Competency, Provision of Services, and Health Outcomes in Tennessee Robin Pendley, DrPH, formerly Health Services Management and Policy, East Tennessee State University

Dec 10 – Integrating Public Health and Healthcare: Lessons from One Urban County

Erik L. Carlton, DrPH, Health Systems Management and Policy, University of Memphis

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