Public Health PBRN Monthly Virtual Meeting March 20, 2014

Research-in-Progress Presentation by
North Carolina Public Health Practice-Based Research Network

MCH Performance in Local Health Departments: Services, EPHS, and Economic Strategies

Presented by Michele Issel, PhD, RN

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

Conference Phone: 877-394-0659

Conference Code: 7754838037#



at the University of Kentucky College of Public Health



Staying Resilient in Hard Times: Maternal, Child, and Adolescent Health Programs and Services



21 March 2014 L. Michele Issel, PhD, RN

PHSSR PBRN Monthly Teleconference

GENERAL INFORMATION

Funders



Grant # 71575,
PHSSR Portfolio

Researchers:

Issel, Handler, Holbrook, Snebold, Leep







Acknowledgements: Deb Rosenburg, Christine Bhutta, Nathalie Robin, Hale Thompson, Comfort Olorusaiye.

Partners







LOCAL PUBLIC HEALTH: THE CURRENT CLIMATE

- Decreased fiscal and political resources
- Reductions in MCAH budgets
- Shift towards systems, life course, and population public health
- Implementation of the Affordable Care Act



How the study was done

Conducted to identify MCAH best practices in "hard times."

Best Practices:

Services/Programs Delivery

Economic Strategies

EPHS Delivery

Other Topics in Survey:

Collaboration

ACA



How we developed the survey

- Partners provided guidance and inp
- QUESTIONNAIRE

 Very often
 Often
 Sometimes
 Rarely
- NACCHO's members pilot tested the survey
- Feedback used to:
 - Refine list of 35 MCAH services/programs
 - > Refine list of 21 potential collaborators
 - Refine wording and sequence of questions



How we conducted the survey

- Online survey using Qualtrics
- Sent to participants in April–May 2012
- Random sample of NACCHO members
 - LHDs were selected within size strata
 - Respondents were responsible for MCAH outcomes
 - Used STATA for data analyses



THE SAMPLE: WHO RESPONDED

546 invited to participate;269 returned usable surveys (49%)

SMALL LHDs

n=137(51%)

serving populations of fewer than 50,000

MEDIUM LHDs

n=105 (39%)

serving populations from 50,000 to 499,000

LARGE LHDs

n=27 (10%)

serving populations greater than 500,000



STRENGTHS OF THE MCAH SURVEY

Strengths:

+ Administered to a large, nationally representative sample of LHDs

+ Reviewed and tested by MCAH practitioners to strengthen its face validity



LIMITATIONS OF THE MCAH SURVEY

Limitations:

- Cross-sectional survey
- Data were self-reported by LHDs
- Survey response rate of 49% (typical of NACCHO surveys of this type)
- Differential response rate by jurisdiction size
- Data collected in April-May 2012



WHAT THE DATA SHOW





Objective 1: Services/Programs

Objective 1: To understand and document:

- a) The MCAH services/programs that <u>LHDs provide</u> <u>directly or by contract</u>
- b) The MCAH services that are **not available** in a jurisdiction





THE SURVEY: SERVICES/PROGRAMS QUESTIONS

For each of the 35 services/programs, respondents were asked whether:

- a) Their LHD provides or contracts out
- b) Other agency/organization provides
- c) Not available in community/jurisdiction
- d) Don't know



MCAH SERVICES/PROGRAMS: MOST FREQUENTLY PROVIDED

BY LHD JURISDICTION SIZE

Small	Medium	Large	
Child Immunizations	Child Immunizations	WIC	
WIC	WIC	HIV testing	
Breastfeeding	Breastfeeding	STI testing	
Lead poison prevention	Lead poison prevention	Lead poison prevention	
Pregnancy testing	HIV testing	Child immunization; Breastfeeding	



MCAH SERVICES/PROGRAMS PROVIDED BY LHD JURISDICTION SIZE

Small but significant difference in the number of services/programs provided/subcontracted by LHD jurisdiction size.

SMALL LHDs

Provided 12.4 services

or 38.5% of 35 (95%CI 34.7 - 42.5%)

MEDIUM LHDs

Provided 14.2 services

or 41.5% of 35 (95%CI 36.6 - 45.4%)

LARGE LHDs

Provided 13.0 services

or 37.7% of 35 (95%CI 25.7 - 50.7%)

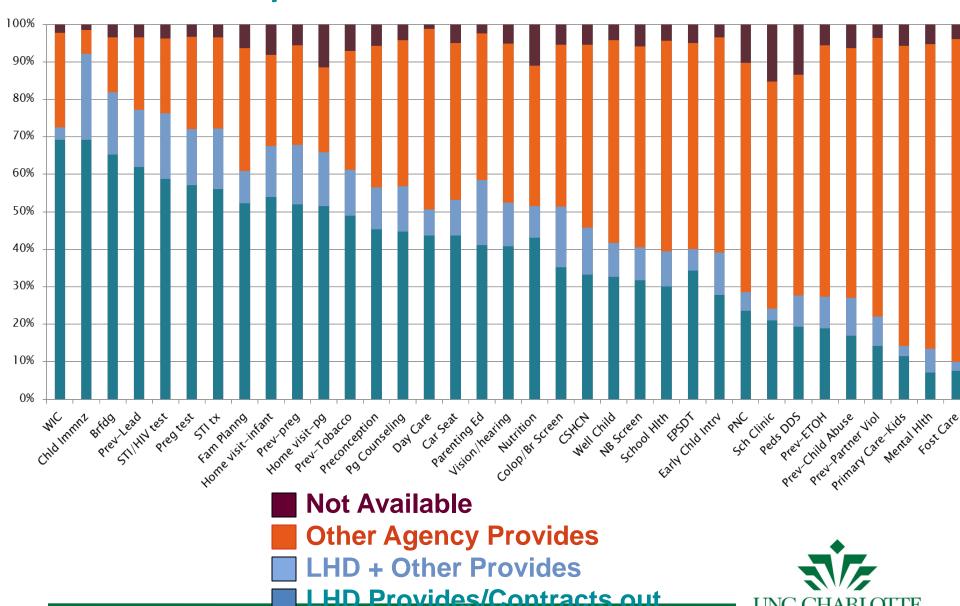


MCAH SERVICES/PROGRAMS PROVIDED

- LHDs provided/subcontracted an average of **13.1 services**, or 39.4% (95%CI 36.5–42.2%) of the **35 possible services**.
- 10-15% of the LHDs, either their agencies or other agencies in their jurisdictions, do NOT deliver prenatal care, prenatal home visits, pediatric dental care, nutrition services, and school-based clinics.
- <10% of LHDs offer mental health or foster care services. School clinics and pediatric dental care are the least likely to be available.



MCAH SERVICES/PROGRAMS PROVIDED



WHAT WE LEARNED: PROGRAMS/SERVICES



- Portfolio of MCAH services/programs varies by LHD size.
 - ➤ Medium size jurisdictions provide slightly more services/programs than either small or large LHDs.
- Childhood immunizations, WIC, breastfeeding support, and lead poisoning prevention are **provided regardless of size**.
- Large portion of the 35 possible MCAH services/programs are not provided by the LHD itself, but by other agencies in the jurisdiction.



Objective 2: Level of EPHS Performance

Objective 2: To understand and document:

a) The degree to which the 10 EPHS are carried out, specific to MCAH population





EPHS Findings

Alpha reliabilities = .85 to .95

EPHS domain scores:

- 2.6 (highest) workforce, access, and inform
- 1.9 (lowest) enforce

LHD Jurisdiction Size and EPHS Scores:

Small-significant for most EPHS domains

Medium-mixed

Large-NS and many reversed



EPHS Scores and LHD Size

EPHS Scale	Correlation <50,000	p-value	Correlation 50,000-499,999	p-value	Correlation 500,000+	p-value
Monitor	0.36	0.000	0.20	0.07	-0.11	NS
Diagnose	0.33	0.000	0.23	0.02	-0.28	NS
Inform	0.32	0.001	0.28	0.007	0.03	NS
Mobilize	0.26	0.007	0.18	0.08	-0.10	NS
Make Policy	0.20	0.04	0.15	NS	-0.09	NS
Enforcement	0.11	NS	0.01	NS	0.12	NS
Assure Access	0.31	0.001	0.27	0.009	0.08	NS
Workforce	0.49	0.000	0.28	0.006	0.16	NS
Evaluate	0.38	0.000	0.40	0.000	-0.05	NS
Evidence/Research	0.29	0.003	0.16	NS	-0.21	NS

EPHS and Services

Number of services significantly related to overall EPHS score (p<.01)

Within population size, the services-EPHS relationship was not significant.

For LHDs in large jurisdictions, the relationship (non-significant) was reversed with low service LHDs demonstrating, on average, the highest EPHS scores.

Objective 3: Economic Strategies

Objective 3: To understand and document:

a) Which types of economic/financial strategies were used by LHDs, specifically relative to MCAH services/programs





Items in Economic Strategies Scale

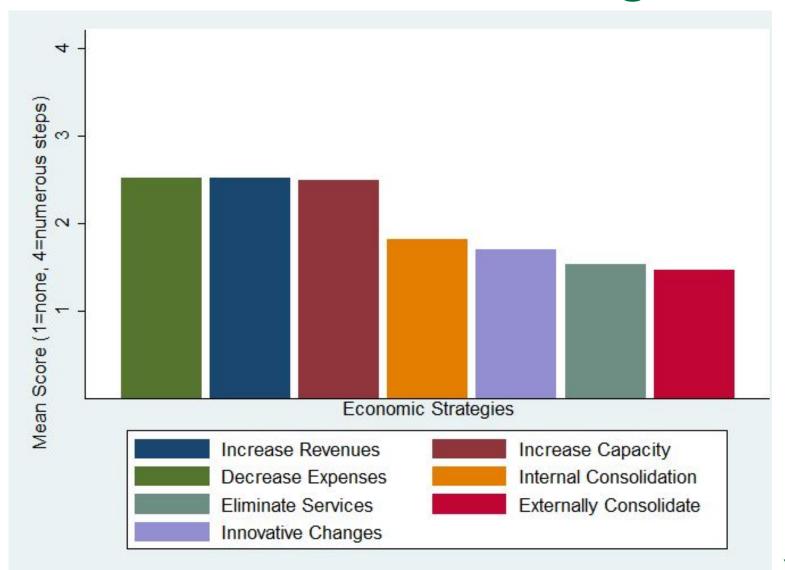
7 Strategies:

Number of Steps taken using that strategy 1=none, 2=few, 3=moderate, 4=numerous

Degree that MCAH preservation was motivation Affected MCAH (yes/no)



7 Economic Strategies



Objective 4: Characterize Best Practices

Objective 4: Develop a Profile that captures:

- a) Most effective economic strategies
- b) The highest level of EPHS delivery
- c) Profile of MCAH services/programs delivery

Analysis is pending!

Cluster analyses-

Service clusters & Strategies clusters



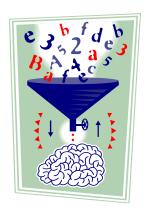
General Research Implications

Organizational level response rates

Data management

Data linkage via FIPS

Partnerships





PHSSR Implications

- A) Characterization challenges
- B) Complexity of connecting organizational processes with outcomes
- C) Atheoretical explorations and dependent variable choice



Dissemination to Date

Webinars and Media Presentations

- **Issel, L. M**., Handler, A., Snebold, L (2013). *Staying resilient in hard times: Maternal, Child, and Adolescent Health Programs, Services and Collaborations*. NACCHO webinar, October 29, 2013.
- **Issel, L. M**., Handler, A., Snebold, L (2013). *Staying resilient in hard times: Local Maternal, Child and Adolescent Health and the ACA*. NACCHO webinar, November 26, 2013.

Special Report

Handler, A., Snebold, L., Leep, C., Pecha, D. & Issel, L. M., (2013). Staying resilient in hard times: Local collaboration for women, children, youth and families. *NACCHO Research Brief*, October 2013.

Scientific Presentations

- MCH Service Delivery Profile of LHDs: Relationship with the Performance of the Essential Public Health Services. Handler, A., Snebold, L., Thompson, H., Leep, C., Olorunsaiye, C., Issel, L. M. CityMatCH Annual Meeting (under review).
- MCH Service Delivery Profile of LHDs: Relationship with the Performance of the Essential Public Health Services. Handler, A., Snebold, L., Thompson, H., Leep, C., Olorunsaiye, C., Issel, L. M. APHA Annual Meeting, New Orleans. (under review).
- Predictors of Strategic Approaches Used by LHDs During the Economic Downturn. . Issel, L. M., Holbrook, A. & Handler, A. AcademyHealth Annual Rearch Meeting, San Diego, CA. June, 2014. [poster]
- Using Cluster Analysis to Characterize LHD Responses to the Economic Downturn. Issel, L. M., Holbrook, A. & Handler, A. Keeneland Annual Conference, Lexington, KY. April, 2014.
- Local Health Departments Delivery of MCAH Services/Programs and Performance of Essential Services for MCAH Population. Issel, L. M., Thompson, H. & Handler, A. Keeneland Annual Conference, Lexington, KY. April, 2013. [Poster].
- Sharing data between local health departments & state health agencies: needs, challenges, and workarounds. Vest, J. & Issel, L. M. Keeneland Annual Conference, Lexington, KY. April, 2013.
- Local MCAH service/program Delivery in Tough Economic Times. Issel, L. M., Thompson, H., Carda-Auten, J., Snebold, L., & Handler, A. CityMatCH. San Antonio, TX December 2012. [poster]
- Local Health Department Collaborations in Maternal, Child, and Adolescent Health. Snebold, L., Carda-Auton, Lissel, L. M., Thompson, H., & Handler, A. CityMatCH. San Antonio, TX December 2012. [poster]

UNC CHARLOTTE

Thank You!



See you at 2014 Keeneland Conference



Other Meeting Agenda Items

Welcome to our newest Public Health PBRN from Hawaii

PBRN Research Updates

- MPROVE Projects: Reports in progress
- DACS Projects: virtual meeting, Monday, March 18

Dissemination Opportunities

- Frontiers
- AJPH Special Issue- Call for Papers: Advances in Public Health Services and Systems Research-manuscripts accepted through May 15

Funding Opportunities

DIRECTIVE



Other Meeting Agenda Items

Annual PBRN Grantee Meeting: April 7-8, 2014

Agenda

Monday, April 7, 9:00AM-4:00PM

- State of the PHSSR/PBRN National Coordinating Center
- Introducing the Robert Wood Johnson Foundation Culture of Health Initiative
- Panel discussion on DACS
- Breakout sessions
 - PHAST 2.0
 - Suggestions/Ideas?

Tuesday, April 8, 9:30-11:30AM

- 8:30-11:45am PHSSR/PBRN and NNPHI Grantee Poster presentation (please send title and author by 3/24)
- 9:30-11:30am PHSSR/PBRN and NNPHI Grantee Workshop: Interactive session on research dissemination
- 11:30-11:45am Post-meeting Networking and Poster Presentations

Thank you for making your travel arrangements in a timely manner. Unfortunately, due to the high cost of airfares this year, we will not be able to provide an additional hotel night for those presenting at the Keeneland Conference.



Other Meeting Agenda Items

- 2014 PBRN Social Network Analysis Survey- thank you to those who have submitted your network rosters. (Requirement for DIRECTIVE applicants)
- Recent Articles of Interest/Resources
 - Preventing Voltage Drop: Keeping Practice-Based Research Network (PBRN)
 Practices Engaged in Studies

Yawn, et. al. J Am Board Fam Med, January-February 2014 Vol. 27, no. 1, pp 123-135.

 A Mixed-Methods Study of Research Dissemination Across Practice-Based Research Networks

Lipman et. al. J Ambulatory Care Manage 2014 Vol. 37, No.2 pp. 179-188

Governmental Public Health and the Economics of Adaptation to Population
 Health

Mays, IOM Discussion Paper http://iom.edu/Global/Perspectives/2014/EconomicsOfAdaptation.aspx

A Sustainable Financial Model for Community Health Systems

Hester and Stange, IOM Discussion Paper http://iom.edu/Global/Perspectives/2014/SustainableFinancialModel.aspx

Practical Playbook: Collaboration between primary care and public health

https://practicalplaybook.org/



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 Ohio PBRN

September 18 Colorado PBRN

October 16 New Jersey PBRN

November 20 Washington PBRN

December 18 New Hampshire PBRN



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