

Public Health PBRN Monthly Virtual Meeting September 19, 2013

Research-in-Progress Presentation by Colorado PBRN

Implementing the Minimum Package of Public Health Services: Preliminary findings in the Core Services Research Project in Colorado.

Sarah Lampe, Adam Atherly, Julie Marshall and Lisa VanRaemdonck

If you are dialed into the conference line on the telephone 877-394-0659 code 7754838037#, please turn off your computer speakers.

Please mute your telephone until the Q&A. If your telephone does not have a mute button, press *6 to mute and #6 to unmute

Implementation of Core Public Health Services in Local Public Health Agencies Across Colorado

COLORADO PUBLIC HEALTH PRACTICE BASED RESEARCH NETWORK DECEMBER 2011 - NOVEMBER 2013

PROJECT FUNDED BY:
ROBERT WOOD JOHNSON FOUNDATION

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KATHLEEN MATTHEWS









Presentation Roadmap

- Core Services Project Summary
- Core Services Measurement Development
- Core Services Preliminary Data
- Core Services Future Analysis and Dissemination

Background

• The Public Health Act of 2008:

- Restructured the local governmental public health system
- Defined the duties of a local public health agency and local boards of health
- Established a collaborative, five-year planning cycle at the state and local levels
- O Directed the Colorado Board of Health to:
 - **▼** Establish minimum qualifications for public health directors
 - ➤ Define **core public health services** and quality standards
 - **▼** Determine a funding formula for local public health agencies

Core Services



- Assessment, Planning, and Communication
- Vital Records and Statistics
- Communicable Disease Prevention, Investigation, and Control
- Prevention and Population Health Promotion
- Emergency Preparedness and Response
- Environmental Health
- Administration and Governance

... performed in accordance with the 10 Essential Public Health Services

Core Services Research Aims

- Examine the effect of the core services regulation on the adoption/assurance of core services by LPHAs
- 2. Examine LPHA-level structural factors related to change in the adoption of core services
- 3. Examine changes in health outcomes related to adoption of core services

Core Services: Study design

- Longitudinal pre-post assessment of core service delivery
 - o PRE: Baseline review completed by August 2011
 - INTERVENTION: Core Services Rule Making in October 2011
 - o POST: Follow-up in early 2013 via Annual Report
- Structural measures as covariates
- Health outcomes will be matched to core service delivery measures where possible

Baseline Review

CONDUCTED IN SUMMER 2011







Methods: Baseline Review of LPHA's

- Conducted Spring/ Summer 2011
- All 54 local public health agencies participated
 - Extensive tool filled out prior to visit
 - o 3-4 hour interview
 - **▼** Directors and staff members
 - **▼** Board of health members (uncommon)
 - Data review and resubmission for any additional gaps

Baseline Review Tool

 Used existing and validated tools as a starting point for development of Baseline Review Tool

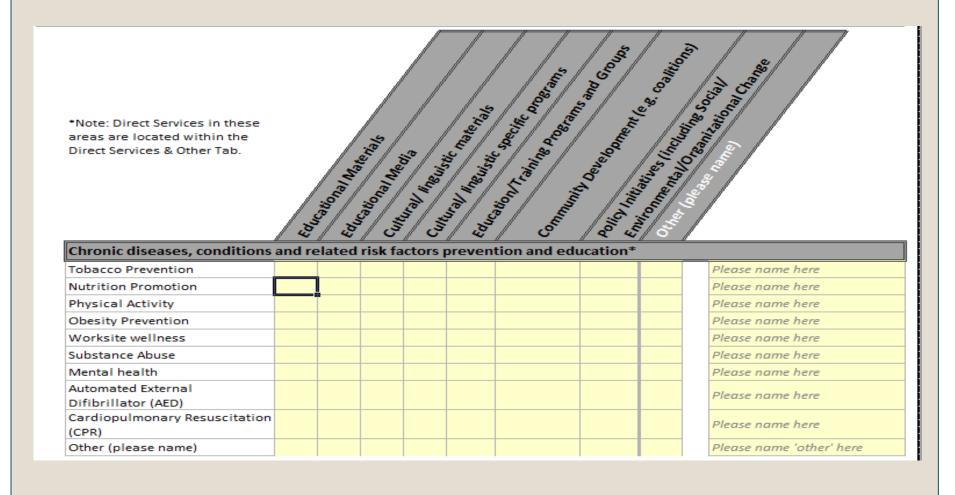
NACCHO Profile 2010

Population-based Primary Prevention Activities

54. Check all that apply. (Variable values: unchecked= 0, checked= 1)

	Performed by LHD directly	Contracted out by LHD	Performed NEITHER by LHD directly NOR contracted out by LHD
Injury	c6q87a	c6q87b	c6q87h
Unintended pregnancy	c6q88a	c6q88b	c6q88h
Chronic disease programs	c6q89a	ced8ap	c6a89h
Nutrition	c6q90a	c6q90b	c6q90h
Physical activity	c6α91a	c6a91b	c6a91h
Violence	c6q92a	c6q92b	c6q92h
Tobacco	c6q93a	c6q93b	c6q93h
Substance abuse	c6α94a	c6a94b	c6a94h
Mental illness	c6q95a	c6q95b	c6q95h

Baseline Review Tool



Other data gathered

- Per Service Category
 - Self-Reported Capacity
- Per Core Service
 - FTE and personnel
 - Funding
 - Areas of Improvement
 - Promising Practices

Follow-up Data Collection

Core Services Research: Measures

- Had to allow for pre-post comparison to baseline survey (August 2011)
- Did not want to ask as much as Baseline
 - Baseline = 1,750 measures

Core Services Research: Follow-up Measures

- Measures
 - Follow-up = 250 measures
 - ➤ Final measures determined using modified Delphi process with input from the Project Advisory Committee (PAC)
- Administered in annual survey format in April-May 2013
- Measure some aspect(s) of the following:
 - o availability, volume/intensity, capacity, reach, and/or quality

Service Delivery Measure Prioritization Process: Example



Environmental Health

Baseline = 843 Measures



Experience from Baseline Interviews

Removed = 565

Remaining = $\underline{278}$ Measures



1st Prioritization - PAC Survey

Removed **149**

Remaining = $\underline{129}$ Measures



2nd Prioritization

Removed at least 54



Final

For **75** measures

Core Services Research Project Advisory Committee

Alice Nightengale

Environmental Public Health Manager

Denver Environmental Health

Alison Grace Bui

Public Health Data Coordinator CDPHE

Beth Gyllstrom

Research Scientist

Minnesota Department of Public Health

Edward Dauer

Dean Emeritus

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Eagle County Public Health

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Minnesota Department of Health

Laurie Schneider

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Public Health Training Center, CSPH

Martha Meyer

PhD student

CSPH

Tom Butts

Director of Environmental Health

Tri-County Health Department

Measure Types

- Service Delivery/Availability Measures
- Capacity Measures
- Direct Service Measures
- FTE and Staffing Measures
- Funding Measures

Pilot Testing, Reliability, and Validity

Pilot Testing

 Tested all measures within a stratification of agencies across the state

Reliability

 Test-Retest Reliability on selection of measures across all core services 4 weeks after initial instrument was completed

Validity

 Convergent and Divergent Validity using data from the 2013 NACCHO Profile which uses the same time period and gathers data using similar constructs

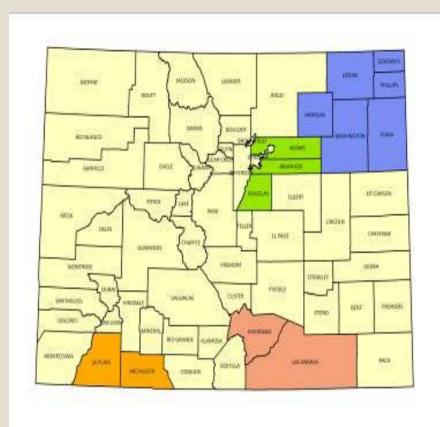
What do we know now?

DATA ANALYSIS AND FINDINGS THUS FAR

Findings

- Preliminary
- Few areas all in aggregate
 - Some service delivery
 - Funding
 - Staffing

Overall Structure



- 54 LPHAs (51 reporting in these data)
 - Single County Agency 38
 - District/Multi-County
 Agency 4
 - Part of HHS 8
 - Other 4
- 58 satellite offices

Governance

Local Boards of Health Composition

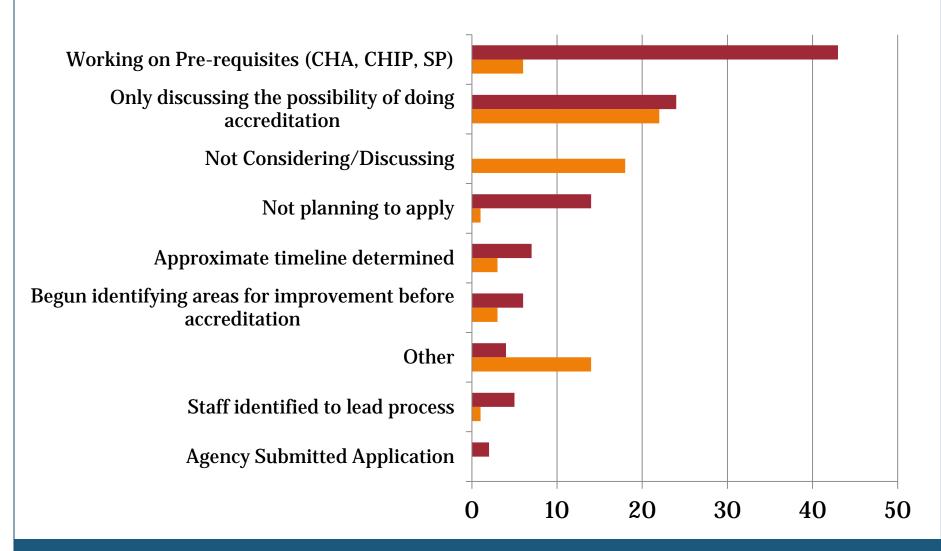
Composition BOH		
County Commissioners	122	
City Council Members	15	
Other Elected Officials	4	
Medical Officer	5	
Other Community Representatives	70	
TOTAL number of BOH members	215	

Local Boards of Health Expertise

	Total Number	Agencies
Public Health Expertise	16	10 (20%)
Environmental Health Expertise	13	9 (18%)
Other Health Expertise	41	19 (37%)

PHAB:

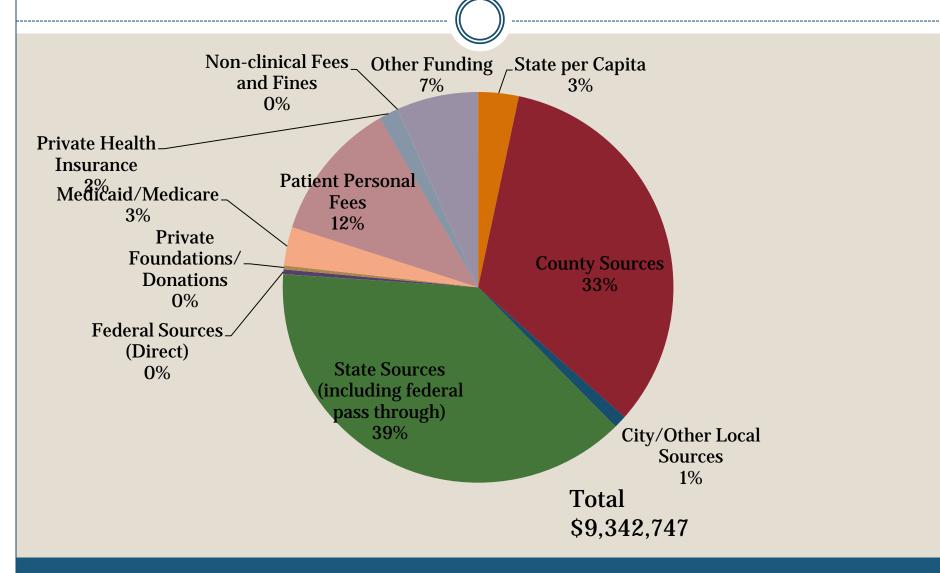
Which of the following best describes your LPHA with respect to participation in the Public Health Accreditation (PHAB) program?



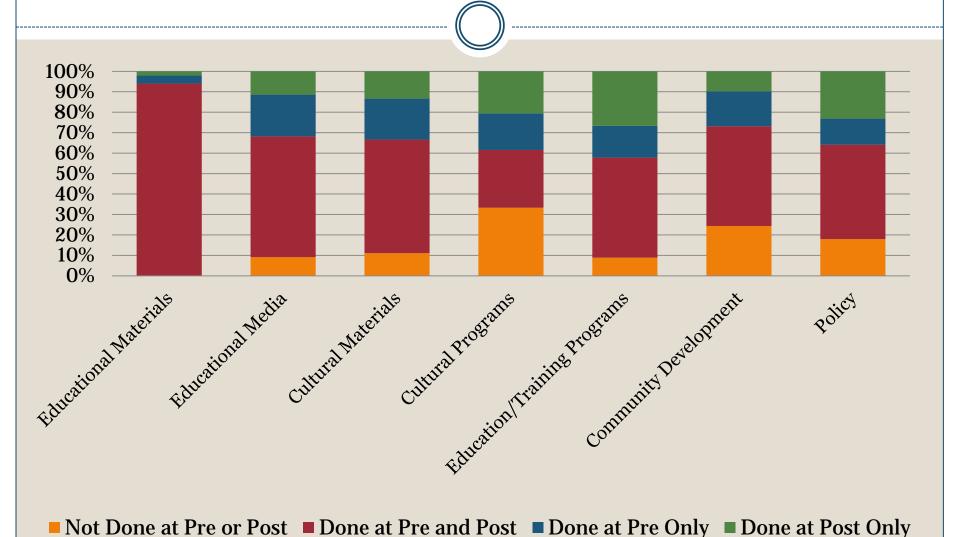
Communicable Disease FTE

	Personnel	FTE
Total	183.50	112.03
Mean	4.08	2.55
Median	3.00	1.00
Max	27.00	26.12
Min	0.00	0.00

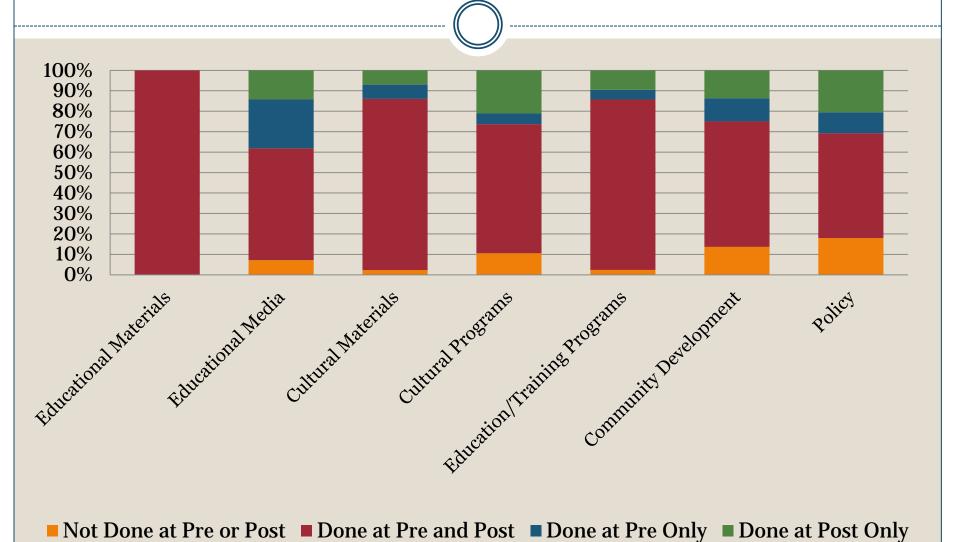
Communicable Disease Funding



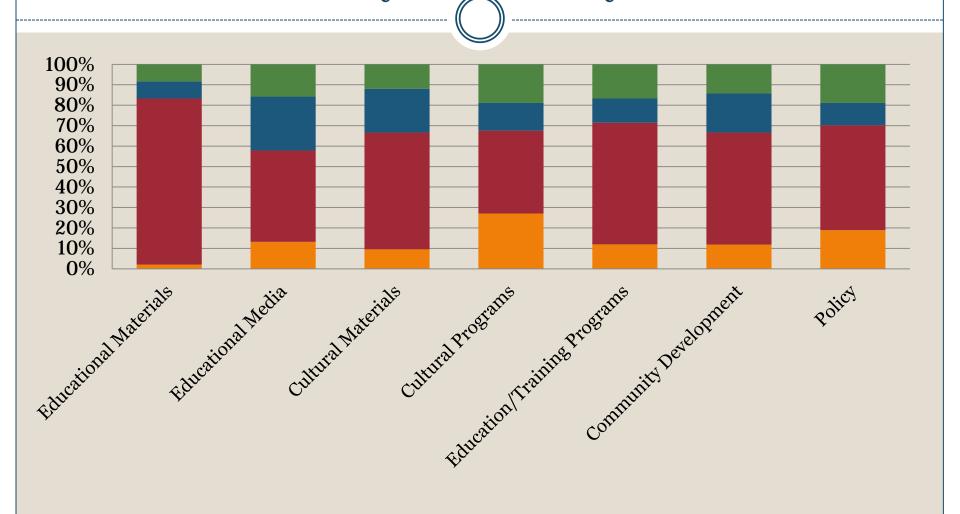
Prevention & Population Health Promotion: Tobacco



Prevention & Population Health Promotion: Nutrition



Prevention & Population Health Promotion: Physical Activity

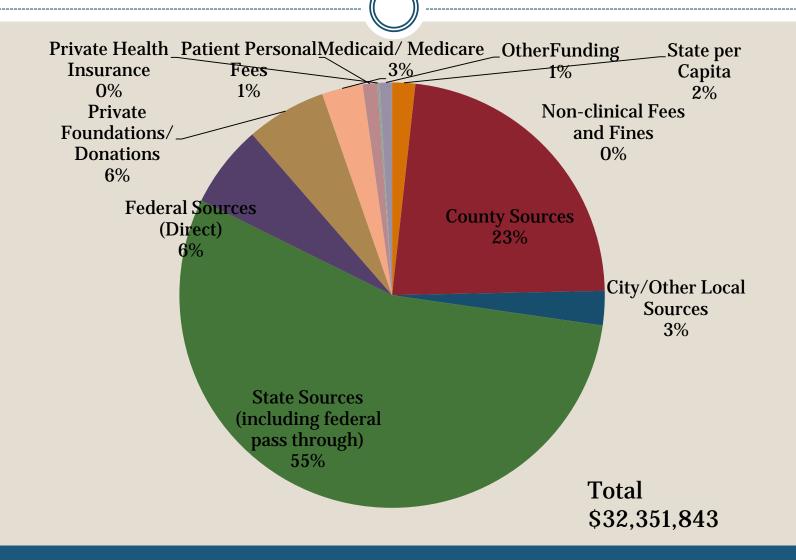


■ Not Done at Pre or Post ■ Done at Pre and Post ■ Done at Pre Only ■ Done at Post Only

Prevention & Population Health Promotion FTE

	Personnel	FTE
Total	348.00	367.45
Mean	7.57	7.99
Median	3.00	1.22
Max	66.00	103.00
Min	0.00	0.00

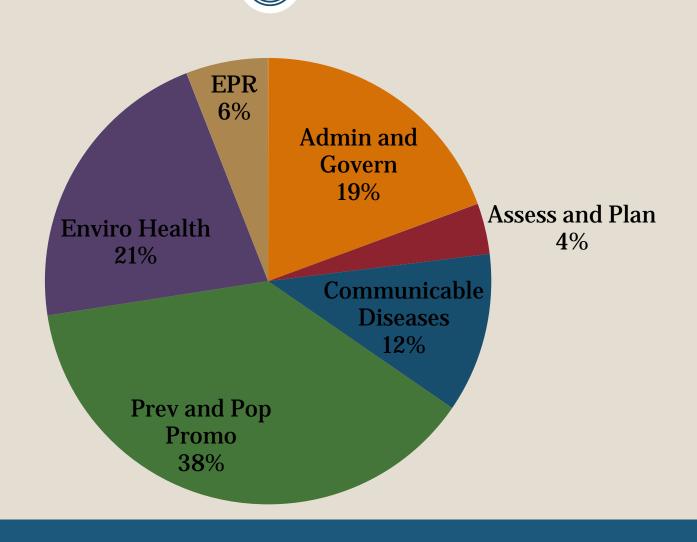
Prevention & Population Health Promotion Funding



Overall FTE

	2010	2012	Difference
Total	2151.40	1933.69	-217.71
Mean	44.82	39.46	-5.36
Median	14.00	11.30	-2.7
Max	398.60	315.80	-82.8
Min	1.00	1.00	0

FTE by Core Service Area







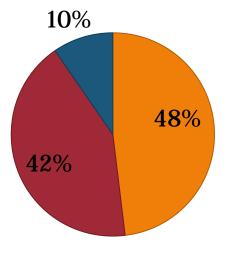
Changes in Funding:

I expect my LPHA's budget in the NEXT fiscal year will be

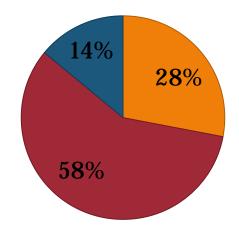
2010

2012

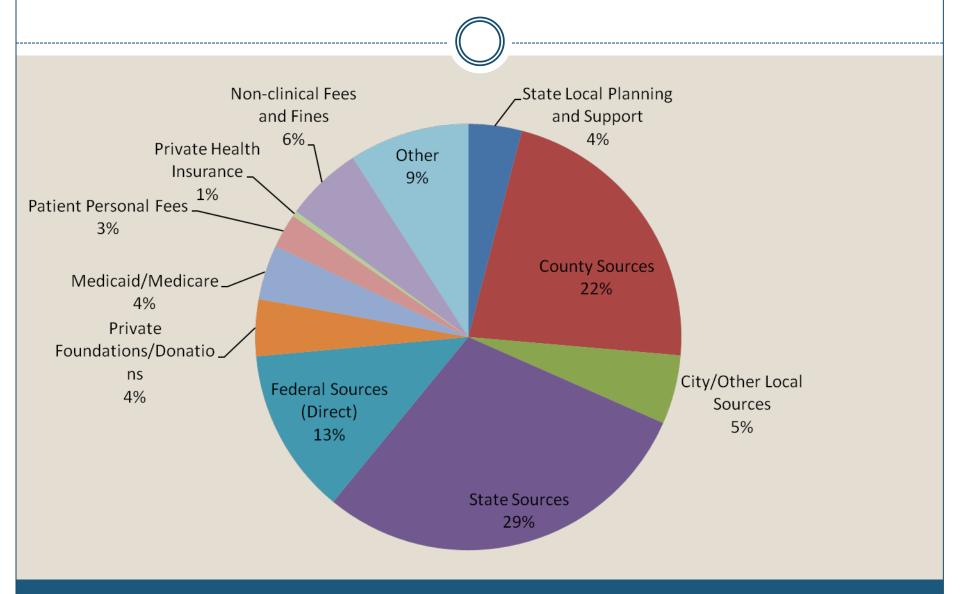
- Less than previous year's budget
- Approximately the same (+/- 1%) as last year's budget
- Greater than previous year's budget



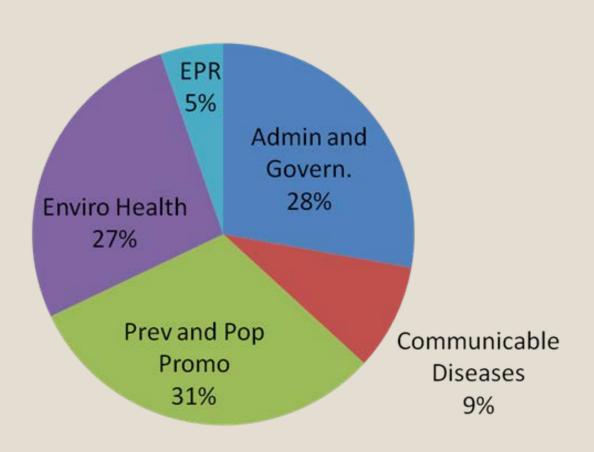
- Less tha previous year's budget
- Approx the same as last year's budget (+/-1%)
- Greater than previous year's budget



Sources of Funds



Spending by Core Service Area



Summary

- More to come...
 - O How else can these data be interpreted?
 - What else would you like to know from these data?
 - O How else would you like to see these data presented?

Questions?

Other Meeting Agenda Items



AcademyHealth Scholarship Reports

- Marian Arledge-NC PBRN
- Scott Frank- OH PBRN
- Michelle Menegay- OH PBRN
- Britney Johnson- NY PBRN
- Sarah Lampe- CO PBRN
- Julie Marshal- CO PBRN

Agenda, Cont'd



Consolidated Center Operations Dissemination Opportunities

- Frontiers in PHSSR
- Keeneland Conference and PBRN Grantee Meeting
- Website redesign
- APHA presentations- send schedules, social hour

Funding Opportunities

- Quick Strikes
- Mentored Research Scientist
- PRC and ICRC FOAs from CDC
- Accreditation Research



- Congratulations to Natalie Pawlenko: White House Champions for Change
- www.whitehouse.gov/champions



Reminders: Upcoming Meetings and Events

- October 17, 2013 Public Health PBRN Monthly Virtual Meeting:
 Research-in-progress presentation by the New Jersey PBRN
- APHA Annual Meeting, November 2-6, 2013 Boston, MA



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