

*ASPPH Presents Webinar Series*

***Accessing and Using Public  
Health Data, Part 1***

Thursday, February 9, 2017  
1:00 pm-2:00 pm Eastern

ASPPH.ORG

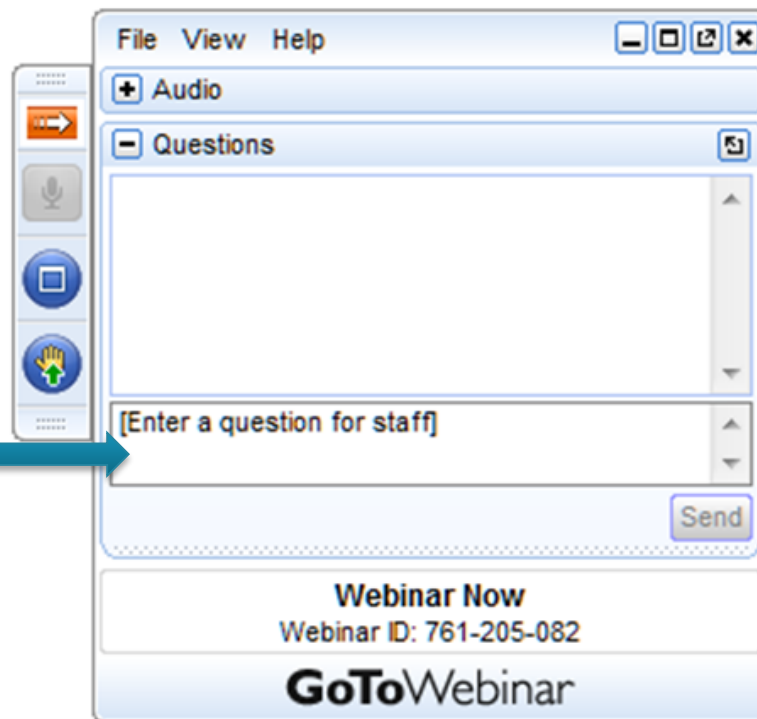
1900 M Street NW, Suite 710  
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Tel: (202) 296-1099  
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**ASPPH Presents**  
 **WEBINAR**

# Method for Submitting Questions

## Join the Conversation...

- You can ask questions in writing anytime during the webinar.
- Simply type them in the “Questions” field on the right side of your screen.



ASPPH Presents  
WEBINAR

# Moderator

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Christine Plepys, MS

Director, Data Analytics

Association of Schools and Programs of Public Health

# Today's Presenters

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**Lisa Sedlar, MLIS, MT (ASCP)**  
Librarian, National Library of Medicine,  
National Information Center on Health  
Services Research and Health Care  
Technology



**Elizabeth Harper, DrPH, MPH**  
Senior Director, Research and Evaluation  
Association of State and Territorial Health Officials

# Public Health Data

Finding Data, the Importance of Standards and Partnerships

Lisa Sedlar, Librarian, National Library of Medicine (NLM),  
National Information Center on Health Services Research  
and Health Care Technology (NICHSR)  
ASPPH Webinar, February 9<sup>th</sup>, 2017



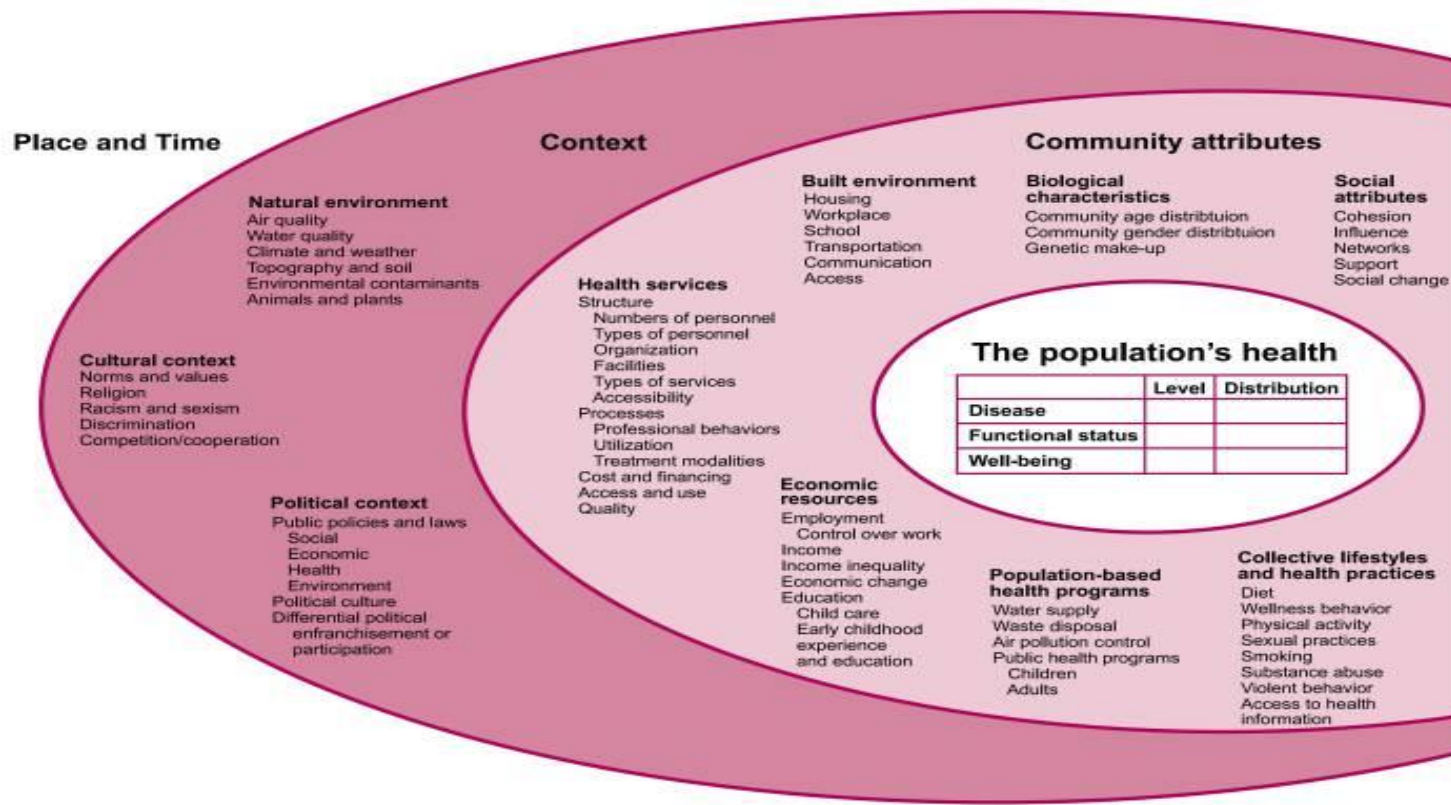
U.S. National Library of Medicine



# Public Health Data

- ▶ Types of public health data
- ▶ Finding data
- ▶ Standards/Harmonization and Partnerships

# Public Health Data and Population Health Data - broad in scope and source



Clinical Data as the Basic Staple of Health Learning: Creating and Protecting a Public Good: Workshop Summary. Chapter 2 -- U.S. Healthcare Data Today: Current State of Play. Institute of Medicine (US) Roundtable on Value & Science-Driven Health Care. Washington (DC): National Academies Press (US); 2010.

# Public Health Data

## Health Status Data

- ▶ Public Health Data - health status of a population
  - ▶ Used for CHA, CHIP, etc.
  - ▶ Program planning and interventions

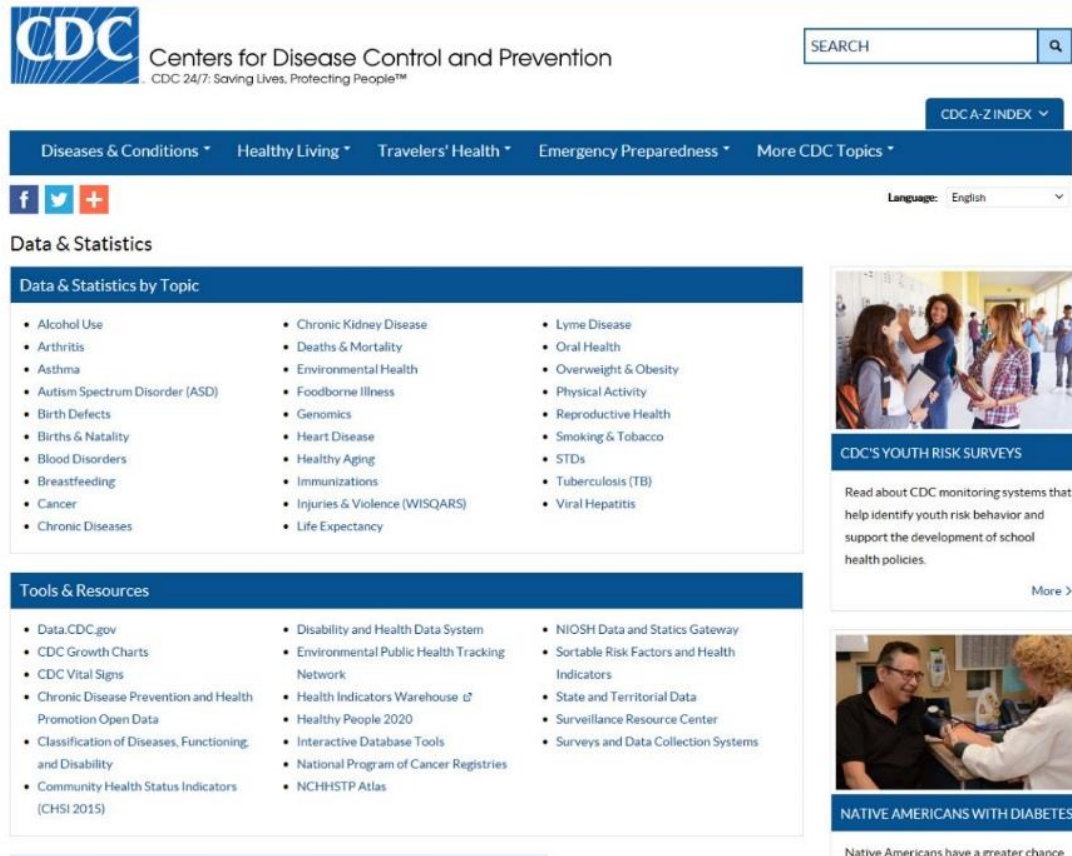




# Public Health Data - Health Status Data



# Health Status Data



The screenshot shows the CDC website's 'Data & Statistics' section. At the top is the CDC logo and the text 'Centers for Disease Control and Prevention' with the tagline 'CDC 24/7: Saving Lives, Protecting People™'. A search bar is located on the right. Below the header is a navigation bar with links: 'Diseases & Conditions', 'Healthy Living', 'Travelers' Health', 'Emergency Preparedness', and 'More CDC Topics'. Social media icons for Facebook, Twitter, and YouTube are on the left, and a language dropdown set to 'English' is on the right. The main content area is titled 'Data & Statistics' and features a 'Data & Statistics by Topic' section with three columns of links. Below this is a 'Tools & Resources' section with another three-column list of links. On the right side of the page, there are two featured articles: 'CDC'S YOUTH RISK SURVEYS' with a photo of students and a 'More >' link, and 'NATIVE AMERICANS WITH DIABETES' with a photo of a healthcare provider and a Native American man.

**CDC** Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™

SEARCH

CDC A-Z INDEX

Diseases & Conditions Healthy Living Travelers' Health Emergency Preparedness More CDC Topics

f t +

Language: English

## Data & Statistics

### Data & Statistics by Topic

- Alcohol Use
- Arthritis
- Asthma
- Autism Spectrum Disorder (ASD)
- Birth Defects
- Births & Natality
- Blood Disorders
- Breastfeeding
- Cancer
- Chronic Diseases
- Chronic Kidney Disease
- Deaths & Mortality
- Environmental Health
- Foodborne Illness
- Genomics
- Heart Disease
- Healthy Aging
- Immunizations
- Injuries & Violence (WISQARS)
- Life Expectancy
- Lyme Disease
- Oral Health
- Overweight & Obesity
- Physical Activity
- Reproductive Health
- Smoking & Tobacco
- STDs
- Tuberculosis (TB)
- Viral Hepatitis

### Tools & Resources

- Data.CDC.gov
- CDC Growth Charts
- CDC Vital Signs
- Chronic Disease Prevention and Health Promotion Open Data
- Classification of Diseases, Functioning, and Disability
- Community Health Status Indicators (CHSI 2015)
- Disability and Health Data System
- Environmental Public Health Tracking Network
- Health Indicators Warehouse
- Healthy People 2020
- Interactive Database Tools
- National Program of Cancer Registries
- NCHHSTP Atlas
- NIOSH Data and Statics Gateway
- Sortable Risk Factors and Health Indicators
- State and Territorial Data
- Surveillance Resource Center
- Surveys and Data Collection Systems

### CDC'S YOUTH RISK SURVEYS

Read about CDC monitoring systems that help identify youth risk behavior and support the development of school health policies.

More >

### NATIVE AMERICANS WITH DIABETES

Native Americans have a greater chance

<https://www.cdc.gov/datastatistics/>

# Health Status Data

CDC Home  
**CDC** Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives. Protecting People.™

A-Z Index: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) <#>

## Community Health Status Indicators (CHSI 2015)



# CHSI

INFORMATION FOR  
IMPROVING COMMUNITY HEALTH

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, CENTERS FOR DISEASE CONTROL AND PREVENTION

-- Select State --  
-- Select County --  
[Start Now](#)

**CHSI 2015** is an interactive web application that produces health profiles for all 3,143 counties in the United States. Each profile includes key indicators of health outcomes, which describe the population health status of a county and factors that have the potential to influence health outcomes, such as health care access and quality, health behaviors, social factors and the physical environment.

The social factors and the physical environment are especially important because they represent the conditions in which people are born, work, and play. Neighborhoods with affordable healthy food, safe and accessible housing, and quality employment opportunities can positively influence behaviors and help to create healthy lifestyles. The World Health Organization and others call the living conditions that can affect health and quality of life the "social determinants of health".

*Healthy People (HP) 2020* highlights the importance of addressing the social determinants of health by including as one of its four overarching goals, "Create social and physical environments that promote good health for all". CHSI 2015 supports this goal by including a broad range of indicators, including multiple indicators related to the social and physical environment.

**CHSI 2015 Goals**  
**Improve the ability of stakeholders to:**

- Assess community health status and identify disparities.
- Promote a shared understanding of the wide range of factors that drive health.
- Mobilize multi-sector partnerships to work collaboratively to improve population health.

[More »](#)

**New Features**

**Summary Comparison Page** - "at a glance" graphic of how a county compares to those of its peers for all indicators.

**Distribution Bar Charts** of each indicator value benchmarked against peer counties, all U.S. counties, and *HP 2020* objectives, where applicable.

**Tract Maps and Indicators by age group, sex, and race/ethnicity** to identify potential health disparities.

[Learn More »](#)

**CHSI 2015** includes many of the 42 most recommended health metrics for community health assessment.



[Learn More »](#)

**Print page**  
[Get email updates](#)

**Contact Us:**

- Centers for Disease Control and Prevention  
1600 Clifton Rd  
Atlanta, GA 30333  
800-CDC-INFO (800-232-4636)  
TTY: (888) 232-6348  
[Contact CHSI](#)

**CDC 24/7**  
Saving Lives. Protecting People.™  
[LEARN MORE ABOUT HOW CDC WORKS FOR YOU.](#)

**About the Indicators**  
Organization of Indicators, Data Sources, Selection of Topics and Indicators, Primary

**How to Use CHSI**  
Using the Tool, Features of the Report, Peer Comparison

**Partners**  
Federal Partners, Private Partners

<https://wwwn.cdc.gov/communityhealth>

# Health Status Data

## State, Tribal, Local & Territorial Public Health Professionals Gateway

### STLT Gateway

Stay Connected



About CDC & the Public Health System



Science & Research



### Health Data & Profiles

Public Health Economics

Accreditation & Performance



Professional Development



Products & Resources for STLTs



About OSTLTS



Contact Us

[CDC](#) > [STLT Gateway](#) > [Science & Research](#) > [Health Data & Profiles](#)

### Health Data & Profiles for STLTs



Data resources and general, state, and territorial health profiles are provided to assist you in your public health work.

Expand All +

Collapse All -

Data and statistics



Federally-developed health profiles



Data and profiles for States, Territories, and U.S. Affiliated Pacific Islands



### Get Email Updates

To receive email updates about this page, enter your email address:

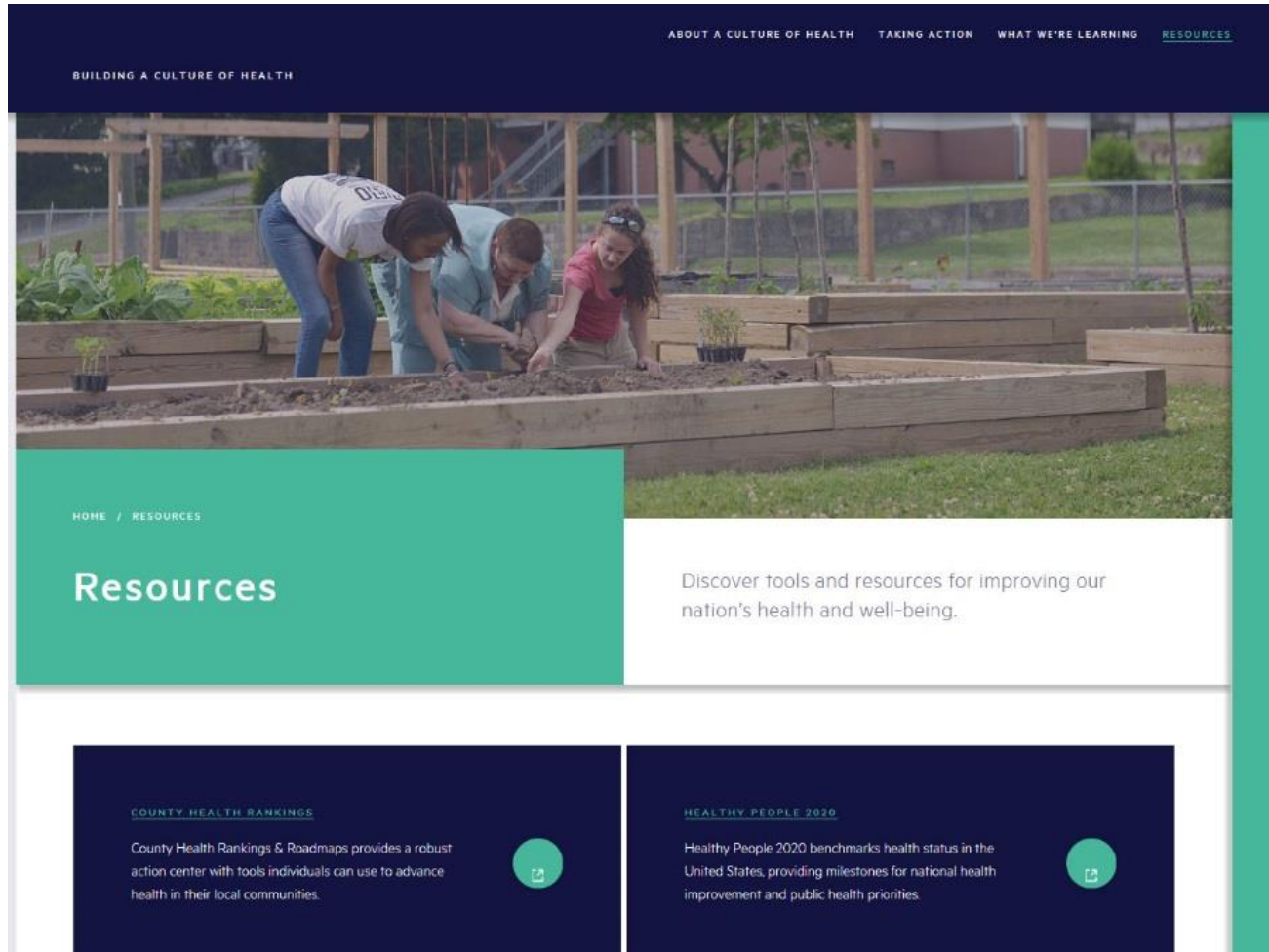
What's this?

Submit



<https://www.cdc.gov/stltpublichealth/DataStatistics/>

# Health Status Data



<http://www.cultureofhealth.org/resources/>



# PHPartners.org

## Health Data Tools and Statistics Page



A collaboration of U.S. government agencies, public health organizations and health sciences libraries

Search PHPartners

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### Public Health Topic Pages

- › Bioterrorism
- › Dental Public Health
- › Environmental Health
- › HIV/AIDS
- › How to Access Journal Articles
- › Nutrition
- › Obesity
- › Public Health Genomics
- › Veterinary Public Health
- › Workforce Development

### Main Topic Pages

- › Health Promotion and Health Education
- › Literature and Guidelines
- › Health Data Tools and Statistics
- › Grants and Funding
- › Education and Training
- › Legislation and Policy
- › Conferences and Meetings
- › Finding People
- › Discussion and E-mail Lists
- › Public Health Data
- › Jobs and Careers

### Health Data Tools and Statistics

[Get email updates](#) | [Subscribe to RSS](#) | [Share](#)

Links to data on the health of a population. For data about public health workforce go to Public Health Data

[Health Data News](#) | [County and Local Health Data](#) | [State Health Data](#) | [Individual State and Metropolitan Data](#) | [National Health Data](#) | [Global Health Data](#) | [Statistical Reports](#) | [Demographic Data](#) | [Geographic Information Systems \(GIS\)](#) | [Training and Education](#) | [Health Information Technology and Standards](#) | [Tools for Data Collection and Planning](#)

### Health Data News

Digital Bridge - 29-DEC-2016

The vision of the Digital Bridge is to improve the health of our nation by enhancing bidirectional information exchange between public health and health care. A first of its kind initiative, the Digital Bridge has created a forum for key decision makers in the public health, health care and health information technology arenas to collaborate and share challenges, opportunities and ideas towards achieving this vision. (Public Health Informatics Institute (PHII), Robert Wood Johnson Foundation (RWJF))

Improving Collection of Indicators of Criminal Justice System Involvement in Population Health Data Programs: Proceedings of a Workshop (2016) - 16-DEC-2016

Summary of a March 2016 workshop where participants investigated the feasibility of collecting criminal justice experience data with national household-based health surveys. (National Academies)

[Return to Top](#)

### County and Local Health Data

#### Area Health Resources Files (AHRF)

AHRF is a family of health data resource products that draw from an extensive county-level database assembled annually from over 50 sources. These products are made available to inform health resources planning, analysis, and decision making. (Health Resources and Services Administration (HRSA))

#### Big Cities Health Inventory Data Platform 2.0

The Health Inventory Data Platform is an open data platform that allows users to access and analyze health data from 28 cities, for 50 health and socioeconomic indicators. It enables users to explore data both by city and by indicator, facilitates comparisons among urban areas, and provides an avenue to understand the major health concerns of cities in the United States. (Big Cities Health Coalition)

#### Community Health Data

Montgomery County Healthy Communities Coalition in Kentucky have launched a free, online web portal to enhance health decision-making by integrating statistics of more than 100 local health indicators specific to their county and surrounding counties.

#### Community Health Status Indicators (CHSI)

Interactive web application that produces health profiles for all counties in the United States. Each profile includes key indicators of health outcomes, which describe the population health status of a county and factors that have the potential to influence health outcomes, such as health care access and quality, health behaviors, social factors, and the physical environment. (Centers for Disease Control and Prevention (CDC))

[County Indicator Data](#)

[https://phpartners.org/health\\_stats.html](https://phpartners.org/health_stats.html)

# PHPartners.org, County and Local Data, and Individual State and Metropolitan Data

## County and Local Health Data

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### County Diabetes Data

Atlas of county-level diabetes data and trends. (Centers for Disease Control and Prevention (CDC))

### County Health Calculator

Tool for advocates and policy makers to understand and demonstrate how education and income affect health. (Virginia Commonwealth University Center on Human Needs)

### County Health Rankings & Roadmaps

Provides county-by-county health rankings for each of the 50 states and Washington DC, explanations of each health factor, and actionable strategies to improve the health of communities across the nation. (Robert Wood Johnson Foundation (RWJF), University of Wisconsin)

### The Displaced New Orleans Residents Survey

The 2009-2010 Displaced New Orleans Residents Survey (DNORS) is a study of individuals and households that resided in the City of New Orleans, Louisiana, in August 2005. DNORS interviewed pre-Katrina residents of New Orleans who had returned to the city as well as residents who had resettled elsewhere. This documentation provides an overview of DNORS, and serves as a guide and cookbook for researchers interested in the public use or restricted versions of these data. (RAND Corporation USA)

### DiversityDataKids

This tool allows you to analyze data by race/ethnicity, compare data across states, metropolitan areas, counties, large cities, and large school districts, and compare policy indicators across states. (Brandeis University, The Heller School U.S.A.)

### Health Indicators Warehouse (HIW)

The Health Indicators Warehouse served as the data hub for the HHS Community Health Data Initiative by providing a single source for national, state, and community health indicators. Site will no longer be maintained after 6/30/16 and will be discontinued on 4/17/17. (National Center for Health Statistics, CDC (NCHS))

### How can Community Commons help you with your Community Health Needs Assessment Report?

This toolkit includes a series of webinars to assist in the CHNA development, an instructional video on creating a report with this tool, and a map creation tool (or use an existing map). (Community Commons USA)

### Interactive Atlas of Heart Disease and Stroke

An online mapping tool that documents geographic disparities in cardiovascular diseases and their risk factors at the local level. The Atlas allows users to create county-level maps of heart disease and stroke and include overlays of congressional boundaries and health care facility locations. In addition, county-level maps of poverty rates, education levels, the food environment, access to health care, and other social factors are available. (Centers for Disease Control and Prevention (CDC))

### PeriStats

Provides access to maternal and infant health-related data at the U.S., state, county, and city level. (March of Dimes)

### Profile IQ

Online data query system for statistics on local health department (LHD) financing, workforce, and activities. The data is from NACCHO's National Profile of Local Health Departments (LHDs) Survey. (National Association of County and City Health Officials (NACCHO))

## Individual State and Metropolitan Data

### Alabama

#### Alabama Center for Health Statistics

Center for Health Statistics collects and tabulates health-related statistical data and operates the vital records system for the State of Alabama. A "Statistical Query System" is available for creating tables and showing frequencies of Alabama resident births and deaths.

### Alaska

#### Informed Alaskans Initiative

The Informed Alaskans Initiative provides access to health indicators from major public health surveillance systems for Alaskan geographic regions down to the level of boroughs and census areas. The data visualization format uses maps, figures, and tables to provide ready access to vast quantities of health information for use in assessing local health needs, monitoring health status, evaluating interventions, and developing public health policy. (Alaska Department of Health and Social Services)

### Arizona

#### Arizona Health Survey

The Arizona Health Survey collects data on individual indicators of health status, insurance coverage, access to care, behavioral health, health-related behaviors and various demographic and social/environmental factors related to health. (St. Luke's Health Initiatives)

### California

#### California Health Interview Survey (CHIS)

Annual survey that provides public health information for California's diverse population. Results on a variety of health topics are produced for the entire state and most counties. (UCLA Center for Health Policy Research)

#### California's Open Data Portal

Get access to California health data; the site provides tools to visualize and download datasets. (California Department of Health)

#### EPICenter - California Injury Data Online

Interactive website with fatal and nonfatal injury data for California residents beginning in 1991. (California Department of Health)

#### Kidsdata

Find data about the health and well being of children in communities across California. Kidsdata.org allows users to find, customize, and use data on more than 500 measures of child health and well being. Data are available for every county, city, school district, and legislative district in California. (Lucile Packard Foundation for Children's Health USA)

#### Los Angeles County Department of Public Health: Statistics and Reports

Reports, data, vital statistics, and health profiles of the Los Angeles County population.

### Colorado

#### Colorado Health Data

Colorado health data including the Colorado Health and Environmental Data (CHED) and the Colorado Health Information Dataset (CoHID). (Colorado Department of Public Health and Environment)

#### Colorado Health Observation Regional Data Service (CHORDS)

The CHORDS pilot project uses EHR data to monitor public health trends and efficacy of interventions.

#### Colorado Health Report Card

An annual update examining the current status of health, health care and health coverage in Colorado. (Colorado Health Foundation USA)

### Florida

#### Fl Health Charts - Community Health Assessment Resource Tool Set

Provides access to Florida's health data at the community and statewide level including access to over 2,000 health indicators, county and state profile reports, county and census tract level maps, and queryable data access. (Florida Department of Health)

### Georgia

#### OASIS (Online Analytical Statistical Information System)

Suite of tools used to access the Georgia Department of Public Health's standardized health data repository. Tools include interactive tables, maps, animated charts, and a Community Health Needs Assessment Dashboard. (Georgia Department of Public Health)

### Hawaii

# Public Health Workforce Data (Governmental Public Health)

- ▶ Data about public health professionals and departments
  - ▶ Workforce
  - ▶ Demographics
  - ▶ Training needs
  - ▶ Education

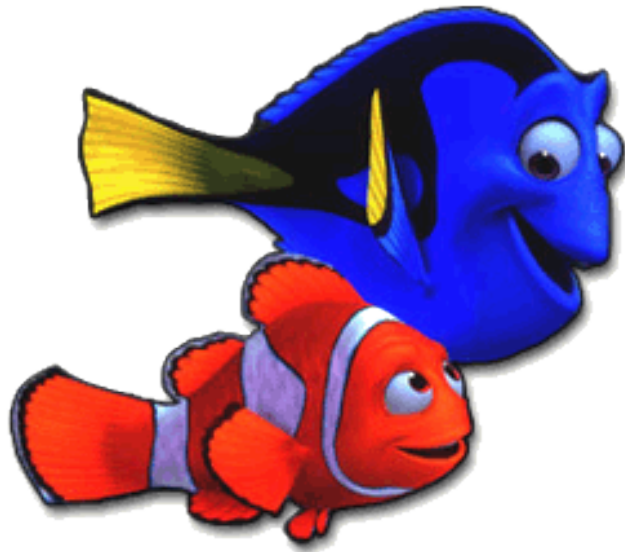




# Public Health Workforce

- ▶ Surveys usually of governmental public health
  - ▶ Enumeration of public health workers is tricky
    - ▶ No licensing or national registry requirements
  - ▶ Membership organizations provide a ready list of governmental public health
  - ▶ Academic and professional partnerships

# Finding Data and Surveys



# National Library of Medicine

**NIH** U.S. National Library of Medicine

Search

NLM Customer Support

**Databases**

- PubMed/MEDLINE
- MeSH
- UMLS
- ClinicalTrials.gov
- MedlinePlus
- TOXNET
- Images from the History of Medicine
- Digital Collections
- LocatorPlus
- All NLM Databases & APIs

**NLM Musings from the Mezzanine**

Innovations in and insights about health information from the Director of the National Library of Medicine.

**Find, Read, Learn**

- Search biomedical literature
- Find medical terminologies
- Search NLM collections
- Read about diseases
- Learn about drugs
- Explore history
- Find a clinical trial
- Use a medical dictionary
- Find free full-text articles

**Explore NLM**

- About NLM
- Health Information
- Library Catalog & Services
- History of Medicine
- Online Exhibitions & Digital Projects
- Information for Publishers
- Visit the Library
- Health Information in Other Languages

**Research at NLM**

- Human Genome Resources
- Biomedical Research & Informatics
- Environmental Health & Toxicology
- Health Services Research & Public Health
- Health Information Technology

**NLM for You**

- Grants & Funding
- Meaningful Use Tools
- Training & Outreach
- National Network of Medical Libraries
- Regional Activities
- Careers @ NLM
- Mobile Gallery

**News, Events, Videos**

- NLM Classification Updated, January 26, 2017 (01/26/17)
- NLM Remembers Mary Tyler Moore, a Champion in the Fight Against Diabetes (01/25/17)
- NLM Announces Two New Digital Collections: Incunabula & World War II U.S. Government Documents (01/12/17)
- Amanda J. Wilson appointed Head, National Network Coordinating Office, Library Operations, NLM (01/09/17)

<https://www.nlm.nih.gov/>

# NLM Health Services Research and Public Health

NIH U.S. National Library of Medicine

Search

Databases Find, Read, Learn Explore NLM Research at NLM NLM for You NLM Customer Support

Home

## Health Services Research & Public Health Information Programs

Integrating Resources for Research and Practice

**Health Services Research**  
Studying access, costs and quality

**Public Health**  
Promoting health for the population

**NICHSR ONESearch**  
Search HSR Information Central, HSRProj, HSRR, and PHPartners in one search

**Collaborative Projects**

- HSR Information Central  
A health services research portal
- Partners in Information Access for the Public Health Workforce  
A public health portal

**Databases**

- Health Services Research Projects in Progress (HSRProj)
- Health Services/Sciences Research Resources (HSRR)
- Health Services/Technology Assessment (Full) Texts (HSTAT)
- American Indian Health
- Arctic Health
- MIMCOM - Malaria Research Resources
- Toxicology and Environmental Health

**Queries/Searches**

- CER Queries  
Preformulated searches of PubMed, HSRProj and ClinicalTrials.gov to inform comparative effectiveness research
- HSR Queries
- HP 2020 Structured Evidence Queries  
Preformulated PubMed search strategies to support improvement on Healthy People 2020 objectives.

**Additional Information From**

- National Information Center on Health Services Research and Health Care Technology (NICHSR)  
The NLM coordinating unit for HSR
- Specialized Information Services  
The NLM coordinating unit for Environmental Health and Toxicology
- National Network of Libraries of Medicine

**Related Products**

- NCBI Bookshelf
- MEDLINE/PubMed
- MedlinePlus®

**Related Pages**

- Especially for Health Care Professionals
- Especially for Researchers

<https://www.nlm.nih.gov/hsrph.html>

# HSRR (Health Services and Sciences Research Resources)

The screenshot shows the HSRR search interface. At the top is the NIH logo and navigation links. A search bar is in the top right. Below the navigation is a yellow banner for the National Information Center on Health Services Research and Health Care Technology (NICHSR). The main content area has a left sidebar with links like 'HSRR', 'Search', 'Browse', 'About HSRR', 'FAQ', 'Search Tips', 'Suggest Resource', 'Contact Us', 'Other NLM Services', 'HSR Information Central', 'HSRRProj', 'HSTAT', 'PHPartners.org', 'PubMed', 'Special Queries', 'Related Information', and 'Education and Training Links'. The main area is titled 'HSRR (Health Services and Sciences Research Resources)' and contains a search section with a search box and a 'Search' button. Below the search section is a blue box titled 'NICHSR ONESearch' with the text 'One website to search them all: HSRProj, HSRR, HSRIC, PHPartners'. The footer contains copyright information, the USA.gov logo, and dates: 'Last updated: 27 January 2017' and 'First published: 21 April 2004'.

NIH U.S. National Library of Medicine

Databases Find, Read, Learn Explore NLM Research at NLM NLM for You

NLM Customer Support

National Information Center on Health Services Research and Health Care Technology (NICHSR)

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Home > Health Services Research & Public Health> NICHSR > HSRR > Search Results >

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HSR Information Central

HSRRProj

HSTAT

PHPartners.org

PubMed

Special Queries

**Related Information**

Education and Training Links

**HSRR (Health Services and Sciences Research Resources)**

**Search:**

Enter one or more term(s) to search. Enter a multi-word term or phrase in quotes.

Phrases should be searched in quotation marks (i.e. "long term care")

Information about research [datasets](#) and [instruments/indices](#) employed in [Health Services Research](#), [Behavioral and Social Sciences](#) and [Public Health](#) with links to PubMed.

**NICHSR ONESearch**

One website to search them all: HSRProj, HSRR, HSRIC, PHPartners

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U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894  
National Institutes of Health, Health & Human Services  
Freedom of Information Act, NLM Customer Support

USA.gov

Last updated: 27 January 2017  
First published: 21 April 2004

[https://wwwcf.nlm.nih.gov/hsrr\\_search/index.cfm](https://wwwcf.nlm.nih.gov/hsrr_search/index.cfm)

# HSRR Search of Public Health Workforce

The screenshot shows the NIH National Library of Medicine (NLM) website interface. At the top, the NIH logo and 'U.S. National Library of Medicine' are visible. A search bar in the top right contains the text 'public health workforce'. Below the header, a navigation bar includes links for 'Databases', 'Find, Read, Learn', 'Explore NLM', 'Research at NLM', and 'NLM for You'. A yellow banner identifies the 'National Information Center on Health Services Research and Health Care Technology (NICHSR)'. The breadcrumb trail reads: 'Home > Health Services Research & Public Health > NICHSR > HSRR > Search Results'. The main search area shows the query 'public health workforce' and a 'Search' button. To the right, it indicates 'Results 1 - 20 of 20 for public health workforce'. On the left side, there are filters for 'Record Type' (DataSet (17), Instrument (2), Software (1)), 'Topic Subset' (PHSR (15)), and 'Keywords' (Top 20 Results, with a 'remix' link). The main content area displays a list of 8 search results, each with a 'Pub Med' icon, a numbered title, and a brief description of the dataset. The results are as follows:

- 1: State Public Health Workforce Survey Results**  
DataSet: Association of State and Territorial Health Officials  
Public Health Systems Research, Workforce
- 2: Survey of the Public Health Nutrition Workforce**  
DataSet: U.S. Department of Agriculture, Food & Nutrition Service  
... in the workforce. The resulting profile of the public health nutrition workforce will be useful to USDA, FNS in determining ... workforce survey were: • To identify trends in the public health nutrition workforce. • To determine the capacity of the public health ...
- 3: Synopsis of State Dental Public Health Programs**  
DataSet: Centers for Disease Control and Prevention (CDC)  
Public Health Systems and Services Research; Workforce; Public Health Administration; Infrastructure; Oral Health; Dental Public Health; United States
- 4: 1999 Local Health Department Infrastructure Survey**  
DataSet: National Association of County & City Health Officials (NACCHO)  
... program areas, staffing configurations, jurisdictional authority, performance of public health services, workforce training needs, and partnership and collaborative activities. A ...
- 5: EMS Workforce for the 21st Century: A National Assessment**  
DataSet: National Highway Traffic Safety Administration  
Public Health Systems and Services Research; PHSSR; Workforce; EMS; Surveillance;
- 6: National Sample Survey of Registered Nurses**  
DataSet: Health Resources and Services Administration (HRSA)  
Education; Nursing; Employment; Health Care Surveys; Health Manpower; Health Policy; Nurses; Public Health Systems Research
- 7: National Assessment of Epidemiologic Capacity**  
DataSet: Council of State and Territorial Epidemiologists  
Epidemiology; Public Health Administration; United States; Public Health Systems and Services Research; PHSSR; Workforce
- 8: Assessment of Epidemiology Capacity in State Health Departments**  
DataSet: Centers for Disease Control and Prevention (CDC)  
Epidemiology; Manpower; Health Care Surveys; Public Health Practice; State Government ... the District of Columbia. The assessment inquired into workforce capacity and ... of public health (ESPH)



# PubMed Search for “Survey of the Public Health Nutrition Workforce”

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Database: Select

Search details  
"public health nutrition workforce"[Title/Abstract]  
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1. [Can a community of practice equip public health nutritionists to work with remote retail to improve the food supply?](#)  
Holden S, Ferguson M, Brimblecombe J, Palermo CE.  
Rural Remote Health. 2015 Oct-Dec;15(4):3464.  
PMID: 26467762 [Free Article](#)  
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2. [Insights into nutritionists' practices and experiences in remote Australian Aboriginal communities.](#)  
Colles SL, Belton S, Brimblecombe J.  
Aust N Z J Public Health. 2016 Apr;40 Suppl 1:S7-13. doi: 10.1111/1753-6405.12351.  
PMID: 25903118  
[Similar articles](#)

3. [Core functions for the public health nutrition workforce in Europe: a consensus study.](#)  
Jonsdottir S, Thorsdottir I, Kugelberg S, Yngve A, Kennedy NP, Hughes R.  
Public Health Nutr. 2012 Nov;15(11):1999-2004. doi: 10.1017/S1368980012003357.  
PMID: 22929414  
[Similar articles](#)

4. [Public health nutrition workforce development in seven European countries: constraining and enabling factors.](#)  
Kugelberg S, Jonsdottir S, Faxelid E, Jönsson K, Fox A, Thorsdottir I, Yngve A.  
Public Health Nutr. 2012 Nov;15(11):1989-98. doi: 10.1017/S1368980012003874.  
PMID: 22894796  
[Similar articles](#)

5. [Towards an international system of professional recognition for public health nutritionists: a feasibility study within the European Union.](#)  
Davies J, Hughes R, Margetts B.  
Public Health Nutr. 2012 Nov;15(11):2005-11. doi: 10.1017/S1368980012000547.  
PMID: 22364665  
[Similar articles](#)

6. [Planning a graduate programme in public health nutrition for experienced nutrition professionals.](#)  
Fox A, Beyers J.  
Public Health Nutr. 2011 Aug;14(8):1479-88. doi: 10.1017/S1368980010002995.  
PMID: 21083970  
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National Information Center on Health Services Research and Health Care Technology (NICHSR)

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**February 07, 2017**  
Chartbook: Trends in Rural Children's Health and Access to Care (January 2017)

**February 07, 2017**  
Sharing Accountability: State and Local Collaborations to Address the Behavioral Health Needs of Justice-Involved Individuals

**February 07, 2017**  
Selling Health Insurance Across State Lines - Lessons for States and Questions for Policymakers

more news

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# HSRIC, Public Health Services and Systems Research



Serving the Information Needs of the Health Services Research Community

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Public Health Services and Systems Research (PHSSR) examines questions that relate to the financing, organization and delivery of public health services - and how those factors translate to population health.

Note: Links are for U.S. resources only.

### Search Queries Using NLM Resources: PHSSR

- [HSRProj \(Health Services Research Projects in Progress\): Projects on PHSSR](#) - (National Library of Medicine (NLM) U.S.)
- [PubMed: Search for PHSSR](#) - (National Library of Medicine (NLM) U.S.)

### News: Public Health Services and Systems Research

- [NACCHO Releases 2016 National Profile of Local Health Departments-25-JAN-2017](#) - (National Association of County and City Health Officials (NACCHO))  
NACCHO has released its 2016 National Profile of Local Health Departments report, available
- [Advancing the Health of Communities and Populations: A Vital Direction for Health and Health Care-05-JAN-2017](#) - (National Academies)  
A discussion paper on how the U.S. needs to change and implement policies to improve the public health system and its funding.
- [Beyond the Data - Public Health Law: Social Determinants of Health and Public Health 3.0-16-DEC-2016](#) - (Centers for Disease Control and Prevention (CDC))  
Record of a 2016 Public Health Law Roundtable session on the role of public health in the removal of barriers to better social determinants of health.

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## HSR General Resources

- [Data, Tools and Statistics](#)
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<https://www.nlm.nih.gov/hsrinfo/phssr.html>

# HSRProj Search of PHSSR

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**HSRProj (Health Services Research Projects in Progress)**

phssr OR "Public Health Systems and Services" OR "Public health administration" OF   [Advanced Search](#)

Results 1 - 20 of 635 for phssr OR "Public Health Systems and Services" OR "Public health administration" OR "public health practice" OR "population Surveillance" OR "public health systems" OR "public health services"

refine by **Project Status** 1 of 10

- Ongoing and Completed (337)
- Ongoing (33)
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refine by **Investigator** 1 of 10

- Abroms, Loren C (1)
- Ackermann, Ronald T (1)
- Agarwal, Ritu (1)
- Alan, Jeffery (1)
- Albrecht, Tamara L (1)
- Alessi, Sheila M (1)
- Alessi, Sheila Marie (1)
- Allan, Susan (1)
- Allen, Carol J (1)
- Allen, Deborah (1)

refine by **Performing Organization** 1 of 10

- AcademyHealth (6)
- Altarum Institute (2)
- American College of Preventive Medicine (2)
- Association of State and Territorial Health Officials (4)
- Boston University, School of Public Health (2)
- Brigham and Women's Hospital (2)
- California Department of Health Services (2)
- Case Western Reserve University, School of Medicine (2)
- Center for Studying Health System Change (3)
- Center for the Advancement of Health (2)

refine by **Supporting Agency** 1 of 7

- Aetna Foundation (1)
- Aetna, Inc. (2)
- Agency for Healthcare Research and Quality (AHRQ) (5)
- Canadian Institutes of Health Research (CIHR) (12)
- Centers for Disease Control and Prevention (CDC) (18)
- Centers for Disease Control and Prevention (CDC), National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP) (1)

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Format:

- ☐ **Promoting and protecting the public's health through partnerships in local public health systems**  
... the public's health through partnerships in local public health systems ... Background: Public health systems research suggests that certain partnerships within the community leads to improved performance within health systems. It is ...  
**Investigator:** Hall, Laura M  
**Performing Organization:** University of Southern Mississippi, Department of Community Health Sciences  
**Supporting Agency:** Robert Wood Johnson Foundation (RWJF)  
**Award:** Grant  
**Project UI:** 20074008  
**Project Status:** Archived
- ☐ **Guiding development of a research agenda for public health systems and services research**  
Guiding development of a research agenda for public health systems and services research ... assist with the development and implementation of a Public Health Systems and Services Research (PHSSR) Agenda meeting co-sponsored ...  
**Investigator:** Hart, Jamie  
Swamy, Namratha  
Altarum Institute  
**Performing Organization:** Robert Wood Johnson Foundation (RWJF)  
**Supporting Agency:** Grant  
**Project UI:** 20113366  
**Project Status:** Completed
- ☐ **Developing junior investigators in the field of public health services and systems research**  
Developing junior investigators in the field of public health services and systems research ... the growth and impact of the field of public health services and systems research (PHSSR) by coordinating current PHSSR ...  
**Investigator:** Lamberth, Cynthia Dianne  
Scutfield, F Douglas  
**Performing Organization:** University of Kentucky, College of Public Health, Kentucky Public Health Leadership Institute  
**Supporting Agency:** Robert Wood Johnson Foundation (RWJF)  
**Award:** Grant  
**Project UI:** 20133165  
**Project Status:** Completed

# AcademyHealth Webinars

The screenshot shows the AcademyHealth website with a navigation bar at the top. The main heading is "Back to School: Where are the Data?". Below the heading, a paragraph describes the seminar: "This introductory seminar developed with support from the National Library of Medicine's Health Services Research Projects-in-Progress (HSRProj) database provides an overview of how a researcher can determine what data is right for their research question, which sources of federal data to access, and the spectrum of data access. Developed with graduate students and new health services researchers in mind, this seminar explores health data access and data governance to help researchers find appropriate and accessible resources to answer their research questions." To the right of the text is a "Professional Resources" sidebar with links to "Awards", "Career Center", "Funding Opportunities", "Interest Groups", "Resources", and "Student Chapters". At the bottom, there is a "Related Content" section.

<http://www.academyhealth.org/professional-resources/training/prof-dev/back-school-where-are-data>

The screenshot shows the AcademyHealth website with a navigation bar at the top. The main heading is "Back to School: Enhance your Research with HSR Methods, Tools, and Resources from the National Library of Medicine". Below the heading, a paragraph describes the seminar: "This seminar provides an overview of resources and use cases provided by the National Library of Medicine's National Information Center on Health Services Research (NICHSR) to support the HSR community. Developed with students and faculty in mind, the session helps students understand the field of Health Services research (HSR) and introduces resources to support coursework and independent research projects, with step-by-step instructions." To the right of the text is a "Professional Resources" sidebar with links to "Awards", "Career Center", "Funding Opportunities", "Interest Groups", and "Resources". At the bottom, there is a "Related Content" section.

<http://www.academyhealth.org/professional-resources/training/prof-dev/back-school-enhance-your-research-hsr-methods-tools-and>

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Helping the public health workforce find and use information effectively to improve and protect the public's health

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- › Jobs and Careers

## Current Public Health News

- [Black Americans and HIV/AIDS: The Basics](#) - 08-FEB-2017
- [Pharmacies Thrive Selling Opioids For Depressed Small Town Pain](#) - 08-FEB-2017
- [HIV Surveillance in Urban and Nonurban Areas through 2015 \(2016\)](#) - 07-FEB-2017
- [Advisory Committee on Immunization Practices Recommended Immunization Schedule for Children and Adolescents Aged 18 Years or Younger - United States, 2017](#) - 07-FEB-2017
- [Advisory Committee on Immunization Practices Recommended Immunization Schedule for Adults Aged 19 Years or Older - United States, 2017](#) - 07-FEB-2017

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One website to search them all: HSRProj, HSRR, HSRIC, PHPartners


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**Public Health Workforce Data**

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Public health workforce datasets available for use by public health professionals, students and researchers. Includes links to reports, codebooks and data use agreements.

Additional information can be found on [HSRR](#) which links to additional survey instruments and data sets.

To find data on the health status of a population, visit [Health Data Tools and Statistics](#).

[ASTHO Profile of State Public Health](#) | [ASTHO Public Health Workforce and Needs Survey \(PH WINS\)](#) | [NACCHO Forces of Change](#) | [NACCHO National Profile of Local Health Departments](#) | [PHF TRAIN Data](#)

**ASTHO Profile of State Public Health**

**ASTHO Data Use Agreement**  
Data use agreement of use of ASTHO Profile of State Public Health data (Association of State and Territorial Health Officials (ASTHO))

**ASTHO Profile of State Public Health Reports**  
Comprehensive source of information about state public health agency activities, structure, and resources. First published in 2007, the Profile aims to define the scope of state public health services, identify variations in practice among state public health agencies, and contribute to the development of best practices in governmental public health. (Association of State and Territorial Health Officials (ASTHO))

**Information for researchers**  
The survey instrument and codebook for volume three of the Profile, as well as a master codebook for all three Profile survey rounds to date and other survey materials. (Association of State and Territorial Health Officials (ASTHO))

[Return to Top](#)

**ASTHO Public Health Workforce and Needs Survey (PH WINS)**

**PH WINS - Access the Data**  
PH WINS data provide a new opportunity for researchers to gain access to worker perspectives on a wide range of topics: Job satisfaction and morale, Training needs, Perspectives on national trends. PH WINS also captured individual demographic information, salary, and education level. (Association of State and Territorial Health Officials (ASTHO))

**PH WINS: Public Health Workforce Interests and Needs Survey**  
PH WINS data provide a new opportunity for researchers to gain access to worker perspectives on a wide range of topics: Job satisfaction and morale, Training needs, Perspectives on national trends. PH WINS also captured individual demographic information, salary, and education level. (Association of State and Territorial Health Officials (ASTHO))

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**NACCHO Forces of Change**

**Archived Forces of Change Reports**  
Previous Reports, State Tables, Survey Instrument, Survey Codebook and Technical Documentation (National Association of County and City Health Officials (NACCHO))

<https://phpartners.org/phdata.html>

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## Workforce Development



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Workforce development activities and resources for the public health workforce.

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### Workforce Development News

**NACCHO Releases 2016 National Profile of Local Health Departments** - 25-JAN-2017  
NACCHO has released its 2016 National Profile of Local Health Departments report, available

**Putting Performance Management into Action** - 24-JAN-2017  
Suggestions on how health departments can develop and implement a performance management systems. (Public Health Foundation (PHF))

**Student Practicum as a Bridge to Governmental Public Health Practice** - 13-JAN-2017  
Research study provides a better understanding of the ways students engage with professionals during their practicums, and how that can translate to strengthening the pipeline to the governmental public health workforce. (Public Health Reports)

**New criteria for accreditation to chart updated course for public health education: Bolstering students** - 12-JAN-2017  
The Council on Education for Public Health has revised their accreditation criteria for public health schools and programs, in order to graduate public health students capable of practicing public health from day one. (The Nation's Health)

**Support the Development of Competencies for Performance Improvement Professionals in Public Health** - 06-JAN-2017  
The Public Health Foundation is seeking volunteers to participate in a Performance Improvement Competencies Subgroup and develop an environmental scan, identify resources to support Competencies, and share insight on needs of performance improvement professionals. (Public Health Quality Improvement Exchange (PHQIX))

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### Certification and Credentialing

**Advanced Public Health Nurse Certification**  
Information on how to apply for, maintain, and renew the Advanced Public Health Nurse-Board Certified (APHN-BC) credential. (American Nurses Credentialing Center (ANCC))

**American Board of Preventive Medicine**  
The American Board of Preventive Medicine certifies physicians in aerospace medicine; occupational medicine; and public health and general preventive medicine. (American Board of Preventive Medicine (ABPM))

**Certified in Public Health (CPH)**  
The Certified in Public Health (CPH) credential is the nation's only voluntary core credential for public health professionals. The CPH designation demonstrates that an individual graduate from a CEPH-accredited school or program of public health has mastered foundational competencies in public health. (National Board of Public Health Examiners)

**Certified in Public Health (CPH) Webinars**  
Webinars and handouts that provide preparation tips and information about taking the Certified in Public Health Exam. (National Board of Public Health Examiners)

<https://phpartners.org/workforcedevelopment.html>

# State or Local Public Health Departments

- ▶ State and local public health departments may have datasets available
  - ▶ These may not be available online
  - ▶ Will require a telephone call or email
  - ▶ Utilize connections with public health departments

# Academic and Public Health Practice Partnerships

- ▶ Public Health Foundation's Council on Linkages Between Academia and Public Health Practice  
<http://www.phf.org/programs/council/Pages/default.aspx>
- ▶ CDC's Academic Partnerships to Improve Health  
<https://www.cdc.gov/ophss/csels/dsepd/documents/academic-partnerships-factsheet.pdf>
- ▶ APHA's Academic and Practice Linkage in Public Health Caucus  
<https://www.apha.org/apha-communities/caucuses/academic-public-health-caucus>
- ▶ ASPPH's Academic Public Health Practice Committee  
<http://www.aspph.org/committees/academic-public-health-practice-committee/>



# Public Health Workforce

## Why Look Before You Survey?

Format: Abstract ▾

Send to ▾

[Am J Public Health](#). 2016 Nov;106(11):1967-1974.

### Challenges and Innovations in Surveying the Governmental Public Health Workforce.

[Leider JP<sup>1</sup>](#), [Shah G<sup>1</sup>](#), [Rider N<sup>1</sup>](#), [Beck A<sup>1</sup>](#), [Castrucci BC<sup>1</sup>](#), [Harris JK<sup>1</sup>](#), [Sellers K<sup>1</sup>](#), [Varda D<sup>1</sup>](#), [Ye J<sup>1</sup>](#), [Erwin PC<sup>1</sup>](#), [Brownson RC<sup>1</sup>](#).

#### ⊕ Author information

#### Abstract

Surveying governmental public health practitioners is a critical means of collecting data about public health organizations, their staff, and their partners. A greater focus on evidence-based practices, practice-based systems research, and evaluation has resulted in practitioners consistently receiving requests to participate in myriad surveys. This can result in a substantial survey burden for practitioners and declining response rates for researchers. This is potentially damaging to practitioners and researchers as well as the field of public health more broadly. We have examined recent developments in survey research, especially issues highly relevant for public health practice. We have also proposed a process by which researchers can engage with practitioners and practitioner groups on research questions of mutual interest.

PMID: 27715307 PMCID: [PMC5055783](#) DOI: [10.2105/AJPH.2016.303424](#)

[PubMed - in process] [Free PMC Article](#)

# AJPH Article, Final Paragraph

- ▶ We have also proposed greater coordination and comparability in survey efforts. Both researchers and practitioners would benefit from national repositories of validated survey items, accessible data from surveys of practitioners, and efforts from funders and grantees to share their data.
  - ▶ Leider, Jonathon P. et al. “Challenges and Innovations in Surveying the Governmental Public Health Workforce.” *American Journal of Public Health* 106.11 (2016): 1967-1974. *PMC*. Web. 2 Feb. 2017.

# Data Harmonization

## Apples to Apples Comparisons

- ▶ Data standards

- ▶ HRSA Compendium of federal data sources to support health workforce analysis (April 2013)  
<https://bhw.hrsa.gov/sites/default/files/bhw/nchwa/compendiumfederaldatasources.pdf>
- ▶ Public Health Workforce Taxonomy (Nov 2014)  
[http://www.ajpmonline.org/article/S0749-3797\(14\)00382-1/pdf](http://www.ajpmonline.org/article/S0749-3797(14)00382-1/pdf)
- ▶ May need to look outside of public health
  - ▶ Education
  - ▶ Clinical
  - ▶ Bureau of Labor Statistics

# Data Harmonization

- ▶ ASTHO/NACCHO/NALBOH
  - ▶ Profile surveys have harmonized data
  - ▶ ASTHO has the data harmonization available:  
<http://astho.org/Profile/Information-for-Researchers/?terms=data+harmonization>
- ▶ NCHS Data Linkage Activities:  
<https://www.cdc.gov/nchs/data-linkage/index.htm>
- ▶ Data Dictionaries
- ▶ Taxonomies

# Data Harmonization

- ▶ Data Harmonization leads to standardized terms and definitions
- ▶ Standardized terms lead to consistent terminology use
- ▶ Consistent terminology use leads to a more comprehensive search for information
- ▶ Less need to search multiple terms for the same concept
- ▶ Structured abstracts
  - ▶ Mention survey used in abstract
  - ▶ Use consistent terms in abstract

# Public Health Workforce

- ▶ When possible, re-use existing data sets
- ▶ Use standard terms and definitions - many taxonomies and data dictionaries available
- ▶ Consult the literature, and your librarian
- ▶ Share results with survey participants (most state they do not have time to read journals)



# Thank You!

Lisa Sedlar, MLIS, MT (ASCP)

[Lisa.Sedlar@nih.gov](mailto:Lisa.Sedlar@nih.gov)

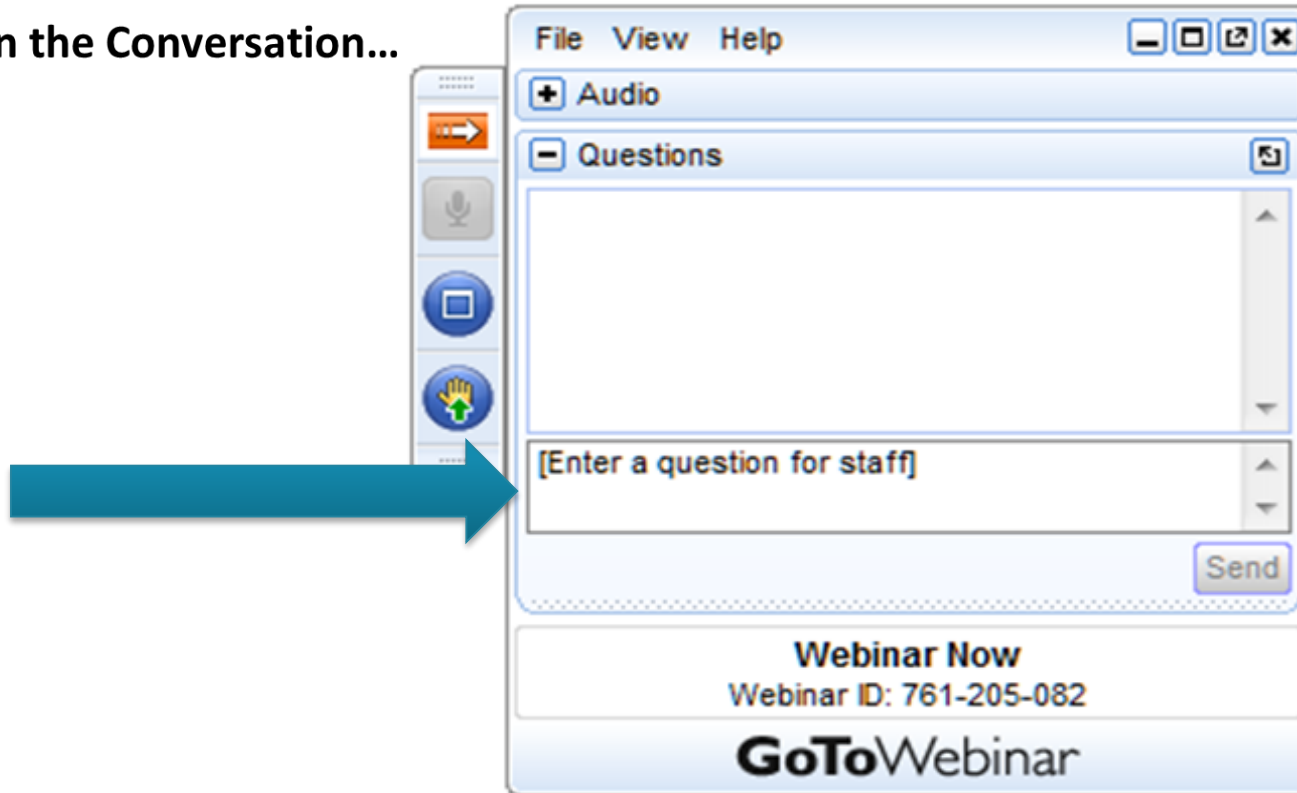


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# Questions or Comments?

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**Elizabeth Harper, DrPH, MPH**  
Senior Director, Research and Evaluation  
Association of State and Territorial Health Officials



## Public Health Interests and Needs Survey (PH WINS)

*February 9, 2017*

Elizabeth Harper, DrPH  
*ASTHO*

Brian Castrucci, MA  
*de Beaumont Foundation*

## THE THREE MAJOR AIMS OF THE SURVEY ARE:

**1**

To inform future investments in workforce development.

**2**

To establish a baseline of key workforce development metrics.

**3**

To explore workforce attitudes, morale, and climate.

# Design

- Representative sample of individual state health agency workers (37 states)
- Pilot in local health departments (over 50 LHDs)
  - Washington
  - Wisconsin
  - South Carolina
  - Arkansas
  - Georgia
  - Mississippi
- Big City Health Coalition (14 big cities)
- Over 23,000 responses

# Data Standardization

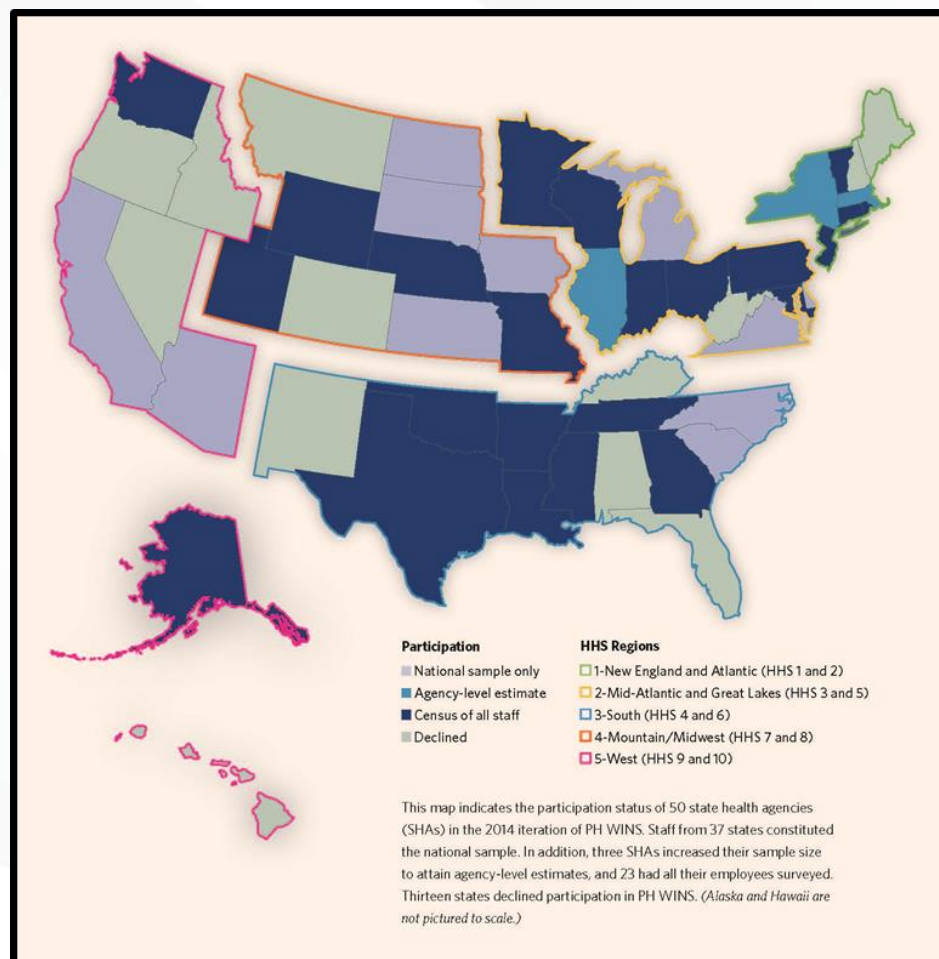
- Utilized existing surveys and tools
  - Council on Linkages Core Competencies
  - Federal Employee Viewpoint Survey
  - Bowling Green State University Job in General (JIG) Scale
  - University of Michigan/CDC Public Health Workforce Taxonomy
- Pretesting
- Cognitive Interviews

# PH WINS Topics

- Training Needs
  - Systems Thinking
  - Communicating Persuasively
  - Change Management
- National Trends
  - Quality Improvement
  - Health Information Technology
  - ACA
- Workplace Environment
  - Culture of Learning
  - Job Satisfaction
  - Worker Empowerment
- Demographics



# SHA Participation



# Key Findings

- 79% of SHA workers are satisfied with their jobs
- 38% plan to leave governmental public health before 2020
  - 25% plan to retire and 13% plan to seek work outside public health
- 17% of SHA workers have any public health degree
- The mean salary range of SHA employees is between \$55,000 - \$65,000
- Top training needs
  - Influencing policy development
  - Social determinants of health
  - Financial management
- 52% of the SHA workforce had heard of Health in All Policies

# How to access the data?

- Data are available at <http://www.astho.org/phwins/Access-the-Data/>
- Steps to access the data
  - Visit the website
  - Complete the Qualtrics survey
    - Submit brief proposal/abstract
  - ASTHO will review proposal
  - Sign data use agreement
  - ASTHO will share data via secure SharePoint site

# Who is using the data?

- Researchers
  - JPHMP special supplement
    - <http://www.astho.org/phwins/supplement/>
  - Training needs, job satisfaction, morale, salaries
- Students
  - Dissertations
  - Capstones
- Public health practitioners
  - Public health training centers
  - State health agencies
    - Workforce development plans
- Stakeholders
  - ASTHO Affiliates
  - CDC
  - NNPHI
  - HRSA



# Questions?

[eharper@astho.org](mailto:eharper@astho.org)

# Thank you to today's Presenters

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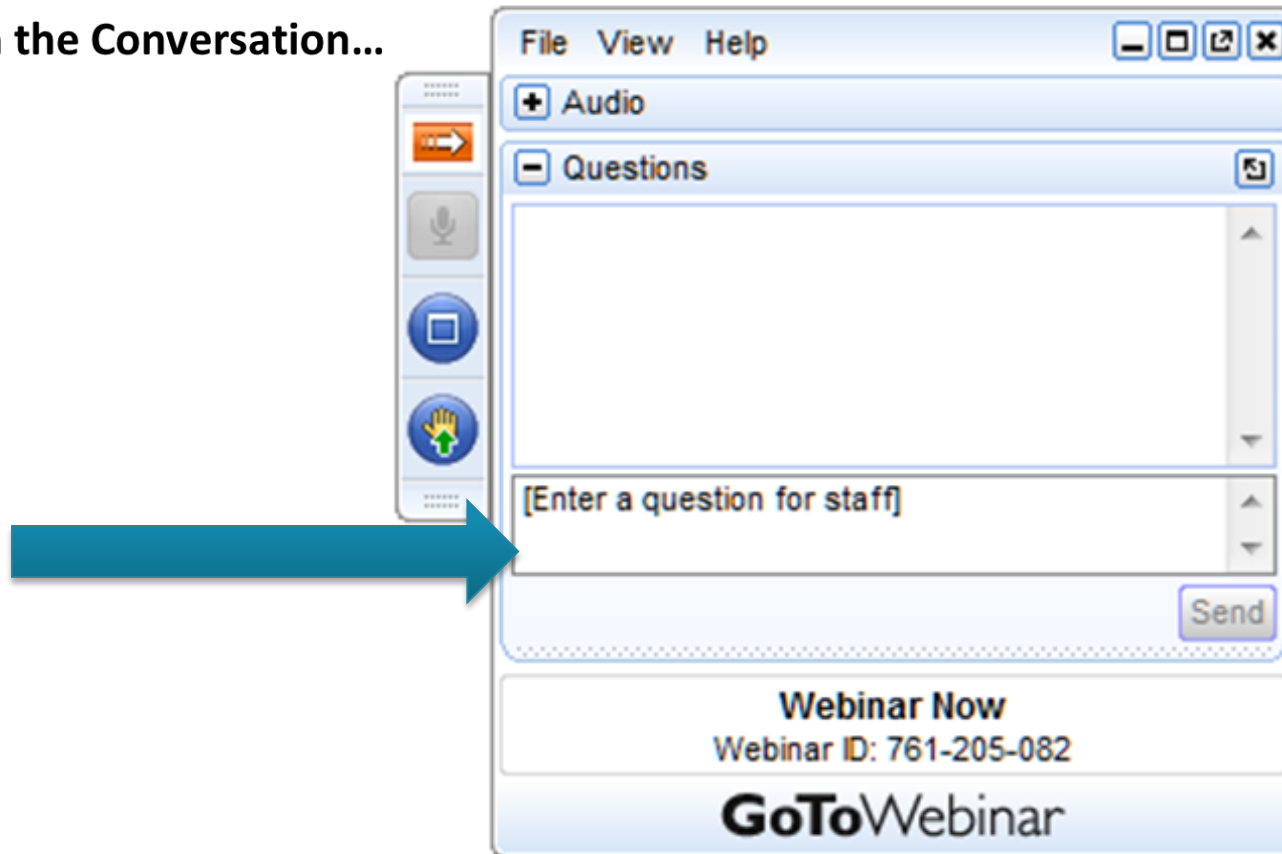
**Lisa Sedlar, MLIS, MT (ASCP)**  
Librarian, National Library of Medicine,  
National Information Center on Health  
Services Research and Health Care  
Technology



**Elizabeth Harper, DrPH, MPH**  
Senior Director, Research and Evaluation  
Association of State and Territorial Health Officials

# Questions or Comments?

Join the Conversation...





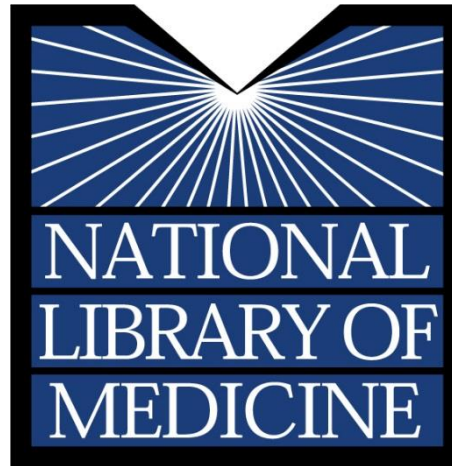
# Today's Moderator and Presenters

Now taking questions.

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**Christine Plepys, MS**  
Director, Data Analytics  
Association of Schools and  
Programs of Public Health



**Lisa Sedlar, MLIS, MT (ASCP)**  
Librarian, National Library of  
Medicine, National Information  
Center on Health Services  
Research and Health Care  
Technology



**Elizabeth Harper, DrPH, MPH**  
Senior Director, Research and  
Evaluation Association of State  
and Territorial Health Officials

# Thank You!

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See the webinar event page on the ASPPH website for a link to the **archived webinar**:

<http://www.aspph.org/event/aspph-presents-webinar-accessing-and-using-public-health-data/>

Contact: [webinars@aspph.org](mailto:webinars@aspph.org)

**CPHCE**  
*Credits*

## Coming Attractions...

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# ASPPH Presents



## WEBINAR

**Accessing and Using Public Health Data, Part 2**

TBD

**Student Services Spotlight: Graduation and other Signature Events**

TBD

**Public Health Law data, part 1 of 2**

Wednesday, March 29

For more information about and to register for upcoming webinars, visit the  
ASPPH Events page:

<http://www.aspph.org/events/category/webinar/>

## Coming Attractions...

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Thank you!