Health Statistics on the Web

Erin Seger, MPH, CHES

National Network of Libraries of Medicine - Middle Atlantic Region

February 28, 2019
Objectives

Achieve a general understanding of the types of data sets and statistics available on the Internet

Identify selected key websites for use in the location of data sets and statistics for use at the local, state, national, and international level

Understand the 4-step process used to successfully locate relevant health statistics for a particular circumstance or issue
Agenda

Statistics Overview
- Data vs. Statistics
- Key Features of Health Statistics
- Uses of Health Statistics

Steps to Finding Health Statistics

Sources of Health Statistics
- Portals
- National
- Local
- International
<table>
<thead>
<tr>
<th>Data vs. Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data</strong></td>
</tr>
<tr>
<td>• “Raw” numbers</td>
</tr>
<tr>
<td>• Counts of individual events or services</td>
</tr>
<tr>
<td>• Collected at local, state, national, or international level</td>
</tr>
<tr>
<td><strong>Data set</strong></td>
</tr>
<tr>
<td>• Data collected and arranged logically according to definite criteria</td>
</tr>
<tr>
<td>• Major unit of data storage and retrieval</td>
</tr>
<tr>
<td>• May/may not represent entire population</td>
</tr>
<tr>
<td><strong>Statistics</strong></td>
</tr>
<tr>
<td>• Data already analyzed and summarized</td>
</tr>
<tr>
<td>• Information presented as text, figures, graphs, or maps</td>
</tr>
<tr>
<td>• Most data on websites is compiled statistics</td>
</tr>
</tbody>
</table>
Key Features of Health Statistics

• “Numerical data that characterize the health of a population and the influences that affect its health”\(^1\)

• Population based

• Measure a wide range of health indicators with varying sources of data

• Often collected and analyzed over a period of time

• Point to remember: *statistics are collected to meet the needs of the collector*

---

Uses of Health Statistics

- Provide information about the health of a population and what influences it
  - Help an individual place themselves in context of their community
  - Gauge health disparities
  - Understand disease occurrence

- Guide policy development

- Guide public health program development and evaluation
  - Support funding
  - Show if a program is improving health
  - Help a developer know the best topic for a program or policy

Target Population: Evidence of Need

- Demographic information that supports the project
- Cite known needs assessments/relevant statistics or literature that support identified needs

Target Population

- Census Bureau (www.census.gov)
- PhPartners (https://phpartners.org)
- County Health Rankings and Roadmaps (http://www.countyhealthrankings.org/)

*4000 character limit*
Steps to Finding Health Statistics

1. Formulate the question
2. Choose the best resource for the question
3. Evaluate the results
4. Repeat as often as necessary
Statistics Portals
PHPPartners

- Partners in Information Access for the Public Health Workforce
- Collaboration of U.S. government agencies, public health organizations, and health sciences libraries
- Focus is to encourage collaboration and organize health information resources for use by public health professionals
- Includes topic pages on relevant public health topics, including a data and statistics portal

[PHPPartners Homepage](https://phppartners.org)
National Center for Health Statistics (NCHS)

- Has been part of the Centers for Disease Control and Prevention since 1987
- Principal health statistics agency for the U.S.
- Provides information to support actions and policies relevant to health of the American people
- Brings together data from a number of sources using

[Home Page](https://www.cdc.gov/nchs/)
CDC State Snapshots

- From the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP)
- Find top health priorities for your state
- Link to state health department homepages
- Links to other statistics and health information sources

State Snapshots page (https://www.cdc.gov/chronicdisease)
State Snapshots

Select a state to access information about programs, funding, chronic disease plans, statistics and data, risk factors and health indicators, and key contacts.

Make a selection in the dropdown menu or click a location on the map.
Louisiana Health Report Card 2017

Submitted by the Louisiana Department of Health
To the Governor and the Legislature
March 2018

Healthy Chicago 2.0
Community Health Assessment:
Informing Efforts to Achieve Health Equity
2016-2020
National Statistics
Behavioral Risk Factor Surveillance System (BRFSS)

- Sponsored by the CDC and other federal agencies
- World’s largest continuously conducted health survey
- 506,000 surveys completed in 2014
- Collects self-reported data from those in all 50 states, D.C., Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and Palau on:
  - Health behaviors
  - Chronic conditions
  - Use of preventive services

BRFSS Homepage (https://www.cdc.gov/brfss)
State Health Facts

- A project from the Henry J. Kaiser Family Foundation
- Provides data on the state level on over 800 health indicators, including:
  - Demographics & the Economy
  - Women’s health
  - Minority health
  - Health reform
  - Health Insurance
  - Medicare & Medicaid
- Custom State Reports tool creates a report with the region and indictors of interest

State Health Facts Page (https://www.kff.org/statedata)
Local Statistics
U.S. Census Bureau

- The federal government’s largest statistical agency
- Provides facts and figures about America’s people, places and economy
- The American fact finder provides statistics from both the census and the American community by:
  - State
  - County
  - City
  - Town
  - Zip code
  - Census tract

Census Homepage (https://census.gov)
Assessing a Community – By The Numbers with Census Data

Class Details

Guest Speaker: Susana Guerra Privett, Data Dissemination Specialist, Customer Liaison & Marketing Service Office, U.S. Census Bureau

Description: This workshop will train participants on using the most relied-on source for detailed, up-to-date socio-economic statistics covering every community in the nation. This forum is designed for organizations that use data for community analysis, grant writing, needs assessment, and planning.

With hands on training, all on census.gov, attendees will use the American Factfinder (data search tool) and QuickFacts to gain a better understanding of the Census terms and geography levels, learn differences between 2010 Census for population numbers/basic characteristics, and American Community Survey for social/economic characteristics such as age, household income, poverty status, disability, transportation and housing. Suggestions for tables and topics are offered.

Speaker Bio: Susana Privett is with the Data Dissemination Program for the U.S. Census Bureau. As the Data Dissemination Specialist for Texas and Oklahoma, Susana gives presentations and conducts workshops about Census Bureau data, various surveys, and internet

Class Overview

SCR CONNECTions

SCR CONNECTions is a monthly web conference presented by the National Network of Libraries of Medicine South Central Region on various topics of interest to health sciences librarians and others. The webinar highlights topics such as NLM databases, subject specific resources and technology topics.

Sessions will be eligible for one hour of Medical Library Association (MLA) Continuing Education credit and will be archived for future viewing.

Click here for more details.

Class Recording
County Health Rankings and Roadmaps

- Collaboration between the Robert Wood Johnson Foundation & the University of Wisconsin Population Health Institute
- How influenced by where people live, work, learn and play
- Statistics at the county level on factors such as:
  - Quality of life
  - Health behaviors
  - Clinical care
  - Social and Economic factors
  - Physical environment
- Information about strategies to improve health in a community

CHRR Facts Page (http://www.countyhealthrankings.org)
Moving from Data to Health Equity Action: County Health Rankings and Roadmaps

Class Details
Join MAR and County Health Rankings and Roadmaps to learn about Moving from Data to Health Equity Action!

In this interactive webinar, Toni Lewis from County Health Rankings and Roadmaps will show attendees where they can find the data, evidence, guidance and examples to move their communities from data to action. Lewis will provide an introduction to helpful search strategies and practical tips, and will answer attendee questions about CHR&R. This webinar will be particularly beneficial to individuals who are considering applying for funding to support community-based library projects.

Recording

Date: Wednesday, January 10, 2018
3:30pm - 4:30pm

Class Overview

TechTime

Summary
Learn about technology issues and trends impacting your organization in this quarterly webinar series from the Middle Atlantic Region.

Participants are eligible for 1 MLA CE per session.

Registration is required.

Class Recording
City Health Dashboard

- Created by the Department of Population Health & the School of Public Service at NYU in partnership with the National Resource Network
- 36 measures of health for the 500 largest cities in the USA
- Some data can be filtered to the census tract level
- Measures align with those used by CHRR
  - Health Behaviors
  - Social and Economic Factors
  - Physical Environment
  - Health Outcomes
  - Clinical Care

City Health Dashboard Page (https://www.cityhealthdashboard.com)
Resource from the Rural Health Information Hub, which is a national clearinghouse on rural health issues

View statistics for metro and nonmetro counties and see a county’s metropolitan classification.

The statistics are from publicly available federal resources and include information on:

- Demographics
- Health disparities
- Social determinants
- Access to services
- Tribal health

RHI homepage (https://www.ruralhealthinfo.org)
Rural Data Explorer

Select from a wide range of data on health disparities, health workforce, demographics, and more. Explore how metropolitan and nonmetro counties compare, nationwide and by state. Learn more about how to use the Data Explorer.

Select Indicator: County Metropolitan Classification
Select State: National
Select Data Year: 2013

Rural Data Explorer
Select from a wide range of data on health disparities, health workforce, demographics, and more. Explore how metropolitan nonmetro counties compare, nationwide and by state. Learn more about how to use the Data Explorer.

Select Indicator

Select State

Select option

Geography
County Metropolitan Classification

Health Disparities
Diagnosed Diabetes Prevalence
HIV Prevalence per 100,000, Age 13 and Older
Leisure-time Physical Inactivity
Life Expectancy at Birth
Obesity Prevalence
Overdose Deaths per 100,000

Health Workforce
Dentists per 10,000 People
Doctors of Medicine (MDs) per 10,000 People
Doctors of Osteopathy (DOs) per 10,000 People
Nurse Anesthetists per 10,000 People
Nurse Practitioners per 10,000 People
Physician Assistants per 10,000 People
Physicians Age 75 and Older
Physicians Under 35 Years Old
Primary Care Physicians per 10,000 People
Total Physicians per 10,000 People

Healthcare Access
Health Professional Shortage Areas: Dental Care, by County
Health Professional Shortage Areas: Mental Health, by County
International Statistics
Global Health Observatory

- World Health Organization’s portal of health statistics covering 194 member states
- Over 1000 health indicators that are organized to show progress toward WHO’s Sustainable Development Goals (SDGs)
- SDGs include:
  - Maternal and child health
  - Communicable disease
  - Substance abuse
  - Violence
  - Environment
  - Health coverage
  - Healthcare workforce

Global Health Observatory page (http://www.who.int/gho)
The Global Health Observatory theme pages provide data and analyses on global health priorities. Each theme page provides information on global situation and trends highlights, using core indicators, database views, major publications and links to relevant web pages on the theme.

**SDG health and health-related target indicators**

- Mortality and global health estimates
- Health Equity Monitor

**3.1 Maternal mortality**

- Maternal health

**3.2 Newborn and child mortality**

- Child health

**3.3 Communicable diseases**

- HIV/AIDS
- Tuberculosis
- Malaria
- Neglected tropical diseases
- Cholera
- Influenza
- Meningitis
- Sexually transmitted infections
- Antimicrobial resistance (AMR) country self-assessment
- Global Antimicrobial Resistance Surveillance System (GLASS)

**3.4 Noncommunicable diseases and mental health**

- Noncommunicable diseases
- Mental health

**3.6 Road traffic injuries**

- Road safety

**3.7 Sexual and reproductive health**

- Universal access to reproductive health

**3.8 Universal health coverage**

- Universal health coverage data portal

**3.9 Mortality from environmental pollution**

- Public health and environment

**3.10 Tobacco control**

- Tobacco control

**3.b Essential medicines and vaccines**

- Essential medicines
- Essential health technologies
- Immunization
- Health R&D

**3.c Health financing and health workforce**

- Health financing
- Health workforce

**2.2 Child malnutrition**

- Stunting, wasting and overweight in children

**6.1 Drinking water**

**6.2 Sanitation and hygiene**

- Water and sanitation

**7.1 Clean household energy**

**11.6 Clean cities**

- Public health and environment
- Urban health

**16.1 Violence**

- Violence prevention
- Violence against women

**17.6 Technology**

- e-Health

**Monitoring health for the SDGs**

Data and analyses for health and health-related SDGs
Global situation and trends: TB is the ninth leading cause of death worldwide and the leading cause from a single infectious agent, ranking above HIV/AIDS. In 2016, there were an estimated 1.3 million TB deaths among HIV-negative people (down from 1.7 million in 2000) and an additional 374,000 deaths among HIV-positive people. An estimated 10.4 million people fell ill with TB in 2016: 90% were adults, 65% were male, 10% were people living with HIV (74% in Africa) and 56% were in five countries: India, Indonesia, China, the Philippines and Pakistan.

**Incidence**

10.4 million
new TB cases in 2016

**Mortality**

1.3 million
TB deaths among HIV-negative people in 2016

**Lives saved**

53 million
through effective diagnosis and treatment between 2000 and 2016

**GLOBAL TUBERCULOSIS REPORT 2017**

View/download the report
Country health data systems

Country statistics

Regional Health Observatories

Africa
Americas
South-East Asia
Europe
Eastern Mediterranean
Western Pacific
Funding Support

☐ My organization has never applied for or received NNLM funding
☐ I am unsure

Have you read the RFP and FAQs? *
If no, stop and read our Requests for Proposals (RFPs) and Frequently Asked Questions (FAQs) now! Your question may be answered.
☐ Yes

What do you need assistance with? *
Check all that apply.
☐ Determining if my proposed project fits the scope of the RFP
☐ Developing a project idea
☐ Selecting appropriate NLM/other information resources
☐ Finding existing data and statistics on my target population
☐ Creating an evaluation plan
☐ Developing a budget
☐ Other

Briefly describe your proposed project and questions: *

NNLM MAR Award Interest Form
Questions?

Erin Seger, MPH, CHES
Health Professions Coordinator
National Network of Libraries of Medicine- Middle Atlantic Region
ers166@pitt.edu

Developed resources reported in this presentation are supported by the National Library of Medicine (NLM), National Institutes of Health (NIH) under cooperative agreement number UG4LM012342 with the University of Pittsburgh, Health Sciences Library System. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.