

HESP 180

RESOURCES

Executive Summaries and Publicly Accessible Data

 <https://epistatistics.com>

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RESEARCH POSTERS

You'll need to come up with a research question, a way of analyzing that question, and interpretations of those analyses. And you'll need to do all of this on your own. Data acquisition, analysis, and interpretation are individual endeavors.

Your posters can be either epidemiological or experimental, but they must be both **practical** (capable of being carried out) and **meaningful** (of some consequence).

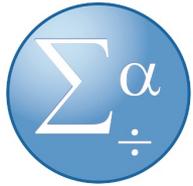


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RESEARCH POSTERS

HERE'S A SLIDE FROM THE VERY FIRST LECTURE:



ON THE SUBJECT OF YOUR POSTERS:

If poster presentation time comes, and your project is a book report summarizing some else's analyses, I will look at you in disbelief... with dead, unemotional shark eyes.



Remember (since lecture 1) that this project is original work. You're not summarizing the statistics of others. You're analyzing your *own* database.

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QUESTIONS & ANSWERS

HOW SPECIFIC SHOULD MY RESEARCH *TOPIC* BE?

A *topic* should be pretty broad. Because you need to find (or gather) data on the subject. You're not gathering publications (i.e., previously published research), but actual raw data, which you will analyze in SPSS. The narrower your topic, the harder it is to acquire relevant data sets.

HOW SPECIFIC SHOULD MY RESEARCH *QUESTION* BE?

Your research *question* should be *very* specific. Once you have identified your research topic, you'll acquire raw data on it. The availability of data will partly determine your research question: what is a question that this set of raw data answer? Make it specific.



QUESTIONS & ANSWERS

AFTER WRITING A NARROW RESEARCH QUESTION, WHAT DO I DO?

Begin your background reading. Find previously published research on your *exact* question. Or as close to your exact question as you can get; similar studies may have to suffice. Read them. If there's a meta analysis or systematic review, get it. If not, find the best studies you can. After that, write your Executive Summary.

HOW DO I WRITE AN EXECUTIVE SUMMARY?

Go to the next slide. Replicate the format (including subheadings).

HOW DO I FIND PUBLICLY ACCESSIBLE DATA?

Keep reading after the Executive Summary slides.



Your Title Here: The Effects of (Independent Variable) on (Dependent Variable)

Principal Investigator: Your name here, your degree(s)

Associate Investigators: The names of others helping you with your research, their degree(s)



Executive Summary

Statement of the bigger picture/problem: Lorem ipsum is a major public health concern associated with XX dollars in healthcare costs and XX days in lost productivity.

Statement of what is known in the literature: Previous research has demonstrated that lorem ipsum is associated with dolor sit amet, consectetur, and adipiscing elit.

Statement of what is unknown (the gap you will be filling): However, it is unclear what the role of donec venenatis is in the onset of lorem ipsum.

Purpose statement: Therefore, the purpose of this study is to determine if increases in donec venenatis is associated with increases in lorem ipsum.

Statement of the major methods you will be using: The diam a gravida tool will be used to stimulate donec venenatis, and the ultricies method will be used to measure lorem ipsum.

Statement of the benefits/what the reviewers/world will gain from this research: The findings from this study will help us better understand the role of donec venenatis in lorem ipsum. Ultimately, this work will help identify countermeasures for prevention of lorem ipsum.



Objectives

The primary objective of this study is to pellentesque fermentum lacus sed consequat gravida.

The secondary objective is to nam elementum ligula ut quam tempor mattis sed dignissim nec odio eget dictum.

Hypotheses

The primary hypothesis is that as that as donec veneatis increases, lorem ipsum will increase.

The secondary hypothesis is that lorem ipsum will increase when donec elementum metus erat but not when sit amet ultricies quam rhoncus.



Writing Your Purpose Statement

Writing Your Objectives

Writing Your Hypotheses

Be clear, concise, concrete. Waste no words.

Do not make your reader do the work. The more you revise, the less effort it takes the reader to understand. You have to do more work so that your reader can do less.



HealthData.gov

- Content Types ^
- Dataset x
- Topics ^
- Health (255)
- State (182)
- National (171)
- Medicare (161)
- Hospital (110)
- Quality (80)
- Community (59)
- Inpatient (49)
- Tags v
- Format v
- Publisher v
- Author v
- License v

The Impact of Hospital-Acquired Conditions on Medicare..

Department of Health & Human Services

Health Hospital Inpatient Medicare National Quality

According to findings reported in The Impact of Hospital-Acquired Conditions on Medicare Program Payments, published in Volume 4, Issue 4 of the Medicare and Medicaid Research Review, certain conditions or infections acquired by Medicare patients

Flu shots and unvaccinated elderly Medicare beneficiaries

Department of Health & Human Services

Medicare National

Elderly persons (aged 65 years and older) are at increased risk of complications from influenza, with the majority of influenza-related hospitalizations and deaths occurring among the elderly (Fiore et al., 2010).

Find a Health Center

Health Resources and Services Administration

Community Health National State

HRSA Health Centers care for you, even if you have no health insurance – you pay what you can afford based on your income.

Physician Referral Patterns

Department of Health & Human Services

Health Hospital Inpatient Medicare National

The physician referral data was initially provided as a response to a Freedom of Information (FOIA) request. These files represent data from 2009 through June 2013 showing the number of referrals from one physician to another.

Health Care Financing Review

Department of Health & Human Services

Health Hospital Medicare State National

The Health Care Financing Review publication is the predecessor to the Medicare and Medicaid Research Review.





guides.lib.berkeley.edu/publichealth/healthstatistics/rawdata

California Datasets

- California Health Interview Survey**
 The largest state health survey in the United States. It is a telephone survey conducted every two years on public health topics and access to health care. The web site contains the questionnaires, data files, and AskCHIS, an online data query system. (Requires one-time, free registration).
- California Office of Statewide Health Planning and Development**
 Has data available for viewing and downloading such as Hospital Annual Financial Data, Hospital Quarterly Financial Data, Utilization Data, Long-term Care Facility Financial Data, Patient Discharge Data, etc.
- California Schedule II-IV Drug Acquisition, Prescription and Dispensation Public Statistics**
 Provides statistical tables that reflect the acquisition, prescription, and dispensation aggregate data of the dispensation information reported to CA DOJ pursuant to Health and Safety Code section 11165(d).
- California Tobacco Survey 1990-2008**
 Surveys include representative statewide data on cigarette smoking behavior, attitudes towards smoking, media exposure to smoking, and use of tobacco products other than cigarettes, from adults and teenagers living in California.

International Datasets

- Berkeley Mortality Database**
 "This database contains life tables for national populations and, whenever available, the raw data used in constructing these tables." Data is provided for the United States, France, Japan, and Sweden. Note: The BMD has been replaced by the Human Mortality Database (see below for link). HMD data are superior for most purposes, however some items within the BMD are not yet available within the HMD or elsewhere.
- Data.gov.au**
 Data.gov.au provides an easy way to find, access and reuse public datasets from the Australian Government.
- Data Planet**

National Datasets

- Berkeley Mortality Database**
 "This database contains life tables for national populations and, whenever available, the raw data used in constructing these tables." Data is provided for the United States, France, Japan, and Sweden. Note: The BMD has been replaced by the Human Mortality Database (see below for link). HMD data are superior for most purposes, however some items within the BMD are not yet available within the HMD or elsewhere.
- Child Health and Development Studies (CHDS)**
 The CHDS researches the way that health and disease are passed on in families, looking at genes as well as social, personal, and environmental surroundings. Researchers may apply to use the data files. CHDS is a project of the Public Health Institute and is supported with funds from the National Institutes of Health.
- Data.gov**
 Data.gov is the home of the U.S. Government's open data. You can find Federal, state and local data, tools, and resources to conduct research, build apps, design data visualizations, and more.
- Data Planet**



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Statistical Methods & Data Sources

- Statistical Methods
- Stats Textbooks
- Survey Design
- Statistical Software at EMU or Free
- Statistical Software Manuals
- EMU Data Subscriptions
- Free Data Sources
- Statistics Compendia
- For Advanced Research

Highly Recommended Data Sources

- **Data.gov**

"The purpose of Data.gov is to increase public access to high value, machine readable datasets generated by the Executive Branch of the Federal Government." Offers numerous free data sets in a searchable database.
- **UNdata**

Do keyword searches to find statistics from the United Nations on many topics including "Agriculture, Crime, Education, Employment, Energy, Environment, Health, HIV/AIDS, Human Development, Industry, Information and Communication Technology, National Accounts, Population, Refugees, Tourism, **Trade**, as well as the **Millennium Development Goals Database**."
- **Google Public Data Explorer**

Create visualizations of public data using this tool from Google. Includes data from international organizations, national statistical offices, non-governmental organizations, and research institutions.
- **DataHub**

8000+ free datasets from the Open Knowledge Foundation. Varied topics. Includes many large datasets from national governments and numerous datasets related to economic development.
- **Quandl**

Offers a free platform with hundreds of free data sets from "central banks, exchanges, brokerages, governments, statistical agencies, think-tanks, academics, research firms and more. " You must create a free account on the site to download data. Use *Sign Up* to create account. EMU does not have access to the premium data on this site, but there are many free data sets.
- **EconData.net - Guide to Regional Economic Data on the Web**

"EconData.net is designed to help practitioners, researchers, students, and other data users quickly find and utilize socioeconomic data." Categorizes 750+ links to data by region, country, and topic. Topics include demographics, employment, education, and more.



Really, really, really good site:


icpsr.umich.edu/web/pages/HMCA/index.html




Health and Medical Care Archive
 Data Archive of the Robert Wood Johnson Foundation

[Log In/Create Account](#)

[FIND DATA](#)
[DEPOSIT DATA](#)
[ABOUT](#)
[HELP](#)

Find Data

[search tips](#) ▼



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Really, really, really good site:

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icpsr.umich.edu/web/pages/HMCA/index.html
```



Health and Medical Care Archive
Data Archive of the Robert Wood Johnson Foundation

Log into HMCA

Use MyData

Email:

Password:

Log In



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Really, really, really good site:

🔒 icpsr.umich.edu/web/pages/HMCA/index.html

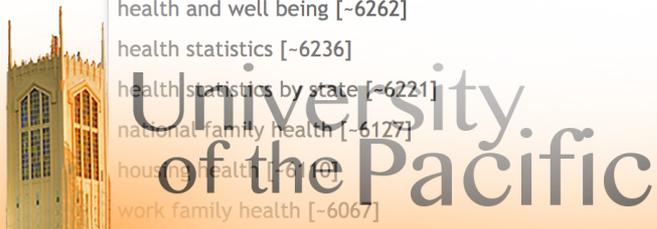


Health and Medical Care Archive
Data Archive of the Robert Wood Johnson Foundation

Find Data

health GO VIEW ALL

- child health [-21577]
- how a population health [-12824]
- health promotion or intervention or program or education [-7242]
- health data [-7210]
- university health [-7137]
- public health [-7073]
- public health data [-7060]
- public health systems [-6775]
- education and health [-6734]
- behavioral health [-6503]
- health survey [-6484]
- national health survey [-6332]
- health and well being [-6262]
- health statistics [-6236]
- health statistics by state [-6221]
- national family health [-6127]
- housing health [-6100]
- work family health [-6067]



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Really, really, really good site:

🔒 icpsr.umich.edu/web/pages/HMCA/index.html



Filters

Data Format

- [SPSS \(140\)](#)
- [SAS \(130\)](#)
- [Stata \(88\)](#)
- [Delimited \(28\)](#)
- [R \(14\)](#)
- [Online analysis \(11\)](#)

Restriction Type

- [Public Use \(160\)](#)
- [Restricted Use \(143\)](#)

Search Results

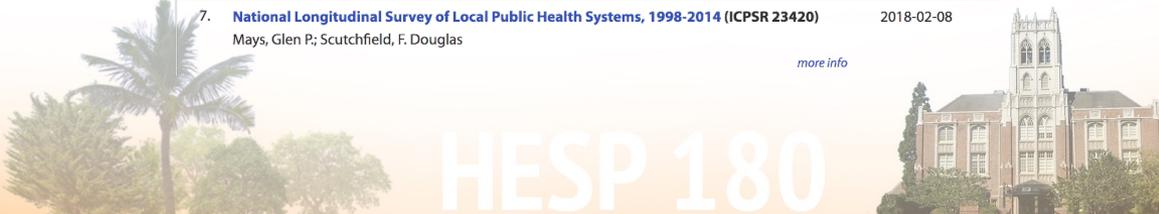
196 results.

[search tips](#) ▾

[Studies \(196\)](#)
[Publications \(8\)](#)
[Variables \(209\)](#)
[Series \(7\)](#)

Sort by: Study Relevance ▾

Study Title/Investigator	Released/Updated
1. Public Health on the Agenda of Counties, 1993: [United States] (ICPSR 6562) Marando, Vincent L. more info	1998-06-12
2. Integrated Public Health Surveys, 2010-2011 (ICPSR 33822) Jones, Jeff A.; Lamberth, Cynthia; Riddell, Martha; Sellers, Katie; Leep, Carolyn; Fenton, Ginger; Johnson, Andrew more info	2013-02-26
3. Public Health Activities and Services Tracking (PHAST): Local Health Department Expenditures for Florida and Washington, 1998-2013 (ICPSR 36126) Bekemeier, Betty more info	2016-03-14
4. Harvard School of Public Health College Alcohol Study, 1993 (ICPSR 6577) Wechsler, Henry more info	2005-11-14
5. Harvard School of Public Health College Alcohol Study, 1999 (ICPSR 3818) Wechsler, Henry more info	2005-11-22
6. Harvard School of Public Health College Alcohol Study, 1993 (ICPSR 6577) Wechsler, Henry more info	2005-11-14
7. National Longitudinal Survey of Local Public Health Systems, 1998-2014 (ICPSR 23420) Mays, Glen P.; Scutchfield, F. Douglas more info	2018-02-08



OTHER EXAMPLES:

U.S. Census Data: https://www2.census.gov/acs2013_1yr/summaryfile/

FBI Crime data: https://ucr.fbi.gov/crime-in-the-u.s/2013/crime-in-the-u.s.-2013/tables/1tabledataoverviewpdf/table_1_crime_in_the_united_states_by_volume_and_rate_per_100000_inhabitants_1994-2013.xls

And (more FBI): https://ucr.fbi.gov/crime-in-the-u.s/2013/crime-in-the-u.s.-2013/tables/table-8/table_8_offenses_known_to_law_enforcement_by_state_by_city_2013.xls/view

CDC Causes of Death: <https://wonder.cdc.gov/>

Medicare.gov Hospital Complication Rates: <https://data.medicare.gov/data/hospital-compare#>

NIH/SEER Cancer Incidence: <https://seer.cancer.gov/faststats/selections.php?series=cancer>

Bureau of Labor Statistics: <https://www.bls.gov/data/>

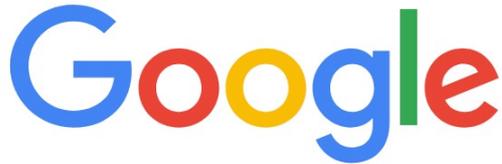
Walmart Sales Data: <https://www.kaggle.com/c/walmart-recruiting-store-sales-forecasting/data>

AirBnb Data: <http://tomslee.net/airbnb-data-collection-get-the-data>

APA.org: <https://www.apa.org/research/responsible/data-links>

Some music data: <https://data.world/datasets/music>

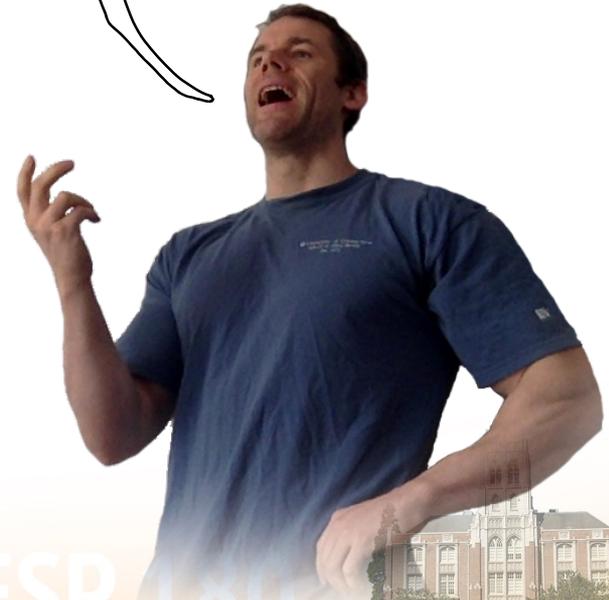
And lots of other stuff: <https://www.freecodecamp.org/news/https-medium-freecodecamp-org-best-free-open-data-sources-anyone-can-use-a65b514b0f2d/>



Search bar containing the text "publicly accessible d" and a list of search suggestions:

- publicly accessible d - Google Search
- publicly accessible **data**
- publicly accessible **databases**
- publicly accessible **datasets**
- publicly accessible **deploy keys**
- publicly accessible **defibrillators**
- publicly accessible **definition**
- publicly accessible **database for healthcare**

The easiest way to find data is to just search for it. It's out there. Google can help you track it down.



ASSIGNMENT NOTES:

c <https://epistatistics.com>

HESP 180 LECTURE 13

The "P-Word":
Understanding the
Misunderstood Meaning
of Significance

Friday, September 25, 2020



Instructions for Executive Summary.
Somewhere around 50 minutes in.

HESP 180 LECTURE 14

The "P-Word" Part 2:
Standard Quantitative
Reporting and Threats
to Validity

Monday, September 28, 2020



How to get assistance in literature
searches without being an asshole.
20:45.

HESP 180 LECTURE 16

Databanks and
Initial Analyses
on Your Database

Monday, October 5, 2020



How to create a poster. Step by step.
Around the 4:00 mark.

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