Sources of routinely collected data

Examples of UW and King County Resources

- **Vista**
  - Web-based data exploration tool
  - Geocoded vital statistics data
  - Available on UW lab computers

- **BRFSS Stata**
  - Menu-based interface to look at complex survey data (like BRFSS) to do time trends and descriptive analysis
  - Contact: David Solet david.solet@metrokc.gov

2000 Washington State Population Survey (SPS)

- Biennial survey of WA state residents started in 1998
- Employment, income, education, immigration, health, and health insurance
- Structure similar to Current Population Survey but oversample by race and geographical area

National Resources: Access Points

- **ICPSR**
- **CDC / CDC WONDER**
- **HSRR**
- **HHS Directory**

2000 Decennial Census

- Where to start: American Fact Finder

  - Click on Data Sets
    - SF-1 – 100% data for population estimates
    - SF-2 – 100% data with more detailed race/ethnicity info than SF-1
    - SF-3* – sample data of persons and households
    - SF-4 – sample data with ancestry categories

Behavioral Risk Factor Surveillance System (BRFSS)

- Study Purpose: Collect uniform state-based data on preventive health practices and risk behaviors
- Study Design / Data collection: Ongoing RDD-telephone survey interviewing a national probability sample with a new sample each year
  - Core components same across states, optional modules and state-specific questions vary across states
- Population: US non-institutionalized population, aged 18+
- Data Availability: about 8 months after collection, must submit a data request form; state specific requests should be made to state BRFSS coordinator
- Where to start: [http://www.cdc.gov/brfss/index.htm](http://www.cdc.gov/brfss/index.htm)
- Core and Optional module questionnaires available at: [http://www.cdc.gov/brfss/brfsques.htm](http://www.cdc.gov/brfss/brfsques.htm)
Example of National Cohort Data Set

- Study Name: NHANES I Epidemiologic Follow-up Study (NHEFS)
- 14,407 participants who were 25-74 years of age in NHANES I (1971-75).
- Study Design/Collection Method:
  - first (1982-84) in-person interview,
  - some clinical data,
  - hospital and nursing home records
  - death certificates,
  - other waves telephone interview, record collection
- Data availability: from HSIC
- Key References: Technical documentation available on the web at:
  [www.cdc.gov/nchs/about/major/nhefs/nhefs.htm](http://www.cdc.gov/nchs/about/major/nhefs/nhefs.htm)

British Cohort Studies

- Study Purpose: Assess the effects of changing social and economic circumstances and policies on subsequent education, employment, health and citizenship outcomes in adult life
- Study Population: Varies by study
- Study Design/Collection Method: Census data linked with complete Census linked with vital event records
- Data availability: subsets of data available at [http://www.cls.ioe.ac.uk](http://www.cls.ioe.ac.uk) and [http://www.celsius.lshtm.ac.uk](http://www.celsius.lshtm.ac.uk)

Finnish Cohort Studies (1 in men, 1 in women)

- Study Purpose: Examine how childhood exposures affect adult health outcomes
- Study Population: women or men who were born in Helsinki University Central Hospital during 1924-33 and who went to school in Helsinki
- Study Design/Collection Method: birth, school health, hospital admission and death records
- Data availability: ? Ask senior author(s)

Practical Considerations

- Data storage format
  - Tapes, CD-ROM, ASCII files on the web
  - Do you have the right hardware and software to access the data?
- Is this the best data available to answer your question of interest?
  - Is it old/ has anything changed since it was collected?
  - Are there any other data sources?
- Most sources require a data user agreement before allowing access to data
- Wise to contact investigators of ongoing studies
- Make sure UW IRB requirements are met
Resources

UW Library [http://www.lib.washington.edu/types/datasets/]

Department of Health Services Information Center 
Mostly public use data from NCHS –
Data access: Contact Yuki Durham [yukid@u.washington.edu]
Center for Social Science Computation and Research (CSSCR)
Data archive: [http://julius.csscr.washington.edu/data.htm]
ICPSR, Census and economic time series data from Datastream
Data Access: Contact Fred Nick [fred@u.washington.edu]

Communities Count
- Collects primary data from telephone and combines with routinely collected data
- Report on social and health indicators available at: www.communitiescount.org
- Possible access to original data - Kathryn Horsley [kathryn.horsley@metrokc.gov]

2004 Healthy Youth Survey
- A future resource?
- Measures health risk behaviors among WA youth

National Data Resources
- The Inter-university Consortium for Political and Social Research (ICPSR)
  [http://www.icpsr.umich.edu/index-medium.html]
  Archive of social science data for research and instruction
  ICPSR will help identify data for a specific research project
- Hosts a number of topical archives:
  - Health and Medical Care Archive (HMCA)
  - International Archive of Education Data (IAED)
  - National Archive of Computerized Data on Aging (NACDA)
  - National Archive of Criminal Justice Data (NACJD)
  - Substance Abuse & Mental Health Data Archive (SAMHDA).”

CDC WONDER [http://wonder.cdc.gov/]
- AIDS-Public Use, AIDS Microfiche
- Assisted Reproductive Technology
  Reports [http://wonder.cdc.gov/wonder/outside/asthallerg.html]
- Asthma and Allergies [http://wonder.cdc.gov/wonder/outside/brfss1.html]
- Cancer Incidence - Surveillance, Epidemiology, and End Results (SEER)
  [http://wonder.cdc.gov/wonder/outside/cdcrec.html]
- CDC Recommends [http://wonder.cdc.gov/censsus.html]
- Census [http://wonder.cdc.gov/wonder/outside/edp.html]
- Chronic Disease Prevention Databases [http://wonder.cdc.gov/codekit.html]
- Codes and Classifications (CodeKit)
  [http://wonder.cdc.gov/wonder/outside/chid.html]
○ Combined Health Information Database http://wonder.cdc.gov/mortSQ L.html
○ Compressed Mortality File or CMF http://wonder.cdc.gov/data2010
○ DATA2010...the Healthy People 2010 Database http://wonder.cdc.gov/wonder/outside/fars.html
○ FARS - Fatal Accident Reporting http://wonder.cdc.gov/wonder/outside/hazdat.html
○ Hazardous Substance Release and Health Effects (HazDat) http://wonder.cdc.gov/data2010
○ Healthy People 2010 Database (Data2010) http://wonder.cdc.gov/wonder/outside/brfss2.html
○ Injury Mortality Data
○ Linked Birth/Infant Death Records
○ Microfiche AIDS http://wonder.cdc.gov/mmwr.html
○ Mortality - occupational (NOMS) http://wonder.cdc.gov/mortSQ L.html
○ Mortality - Underlying Cause of Death http://wonder.cdc.gov/nataJ.html
○ Natality http://wonder.cdc.gov/wonder/outside/nasd.html
○ NIOSH Mortality and NOMS http://wonder.cdc.gov/wonder/outside/nrevss.html

Health Services and Sciences Research Resources
“HSRR contains information about research datasets and instruments/indices employed in Health Services Research, and the Behavioral and Social Sciences and Public Health with links to PubMed and additional resources.”

**Health and Human Services Directory of Data Resources**
Compilation of all major data collection sponsored by the U.S. Department of Health and Human Services (HHS)
- List of links to HHS sponsored recurring surveys, public health surveillance systems, disease registries and programmatic data systems and some databases from one-time studies
- Some projects only have data available from published reports
- Other projects have publicly available microdata files

Available at: [http://aspe.os.dhhs.gov/datacncl/datadir/](http://aspe.os.dhhs.gov/datacncl/datadir/)

**International Resources**
- WHO
  - WHOSIS – Statistical Information System [http://www3.who.int/whosis/menu.cfm](http://www3.who.int/whosis/menu.cfm)
- OECD - Organisation for Economic Co-operation and Development
  - Go to [www.oecd.org](http://www.oecd.org) and click on statistics
- PAHO Regional core health data
  - Go to [www.paho.org](http://www.paho.org) and click on Health Data