NCHS Remote Data Access Systems: Present and Planned



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National Center for Health Statistics

Data Access



Public Use Files 90+ Files Per Year

Data Acumen

General Public

(My Mom)

Policymaker or Journalist Graduate Student Academic Researcher Nobel Laureate

Data Systems

- National Health Interview Survey-Native Hawaiian and Pacific Islander Survey National Health Interview Survey
- National Health Care Interview Survey
- National Health and Nutrition Examination Survey
- National Survey of Family Growth
- National Death Index
- National Electronic Health Records Survey
- National Ambulatory Medical Care Survey-Physician
- Workflow Survey
- National Hospital Ambulatory Medical Care Survey
- National Study of Long-Term Care Providers
- National Survey of Children in Non-Parental Care, 2013 (NSCNC)
- National Survey of the Diagnosis and Treatment of ADHD and Tourette Syndrome, 2014 (NS-DATA)
- Supplement on Aging (SOA) 1984
- Longitudinal Study of Aging (LSOA) 1984-1990
- Second Supplement on Aging (SOA II) 1994-1996
- Second Longitudinal Study of Aging (LSOA II) 1994-1996
- National Health Interview Survey on Disability (NHIS-D) 1994-1995
- National Hispanic Health and Nutrition Examination Survey (HHANES) 1982-1984
- NHANES Epidemiologic Follow-up Study (NHEFS) 1982-1984; 1986, 1987, 1992
- NHANES National Youth Fitness Survey (NNYFS) 2012
- National Nursing Home Survey (NNHS) 1973-74, 1977, 1985, 1995, 1997, 1999 and 2004
- National Health Provider Inventory (NHPI) 1991
- National Home and Hospice Care Survey (NHHCS) 1992-1994, 1996, 1998, 2000, and 2007
- National Survey of Ambulatory Surgery (NSAS) 1994-1996; 2006
- National Nursing Assistant Survey (NNAS) 2004
- National Home Health Aide Survey (NHHAS) 2007
- National Survey of Residential Care Facilities (NSRCF) 2010
- National Maternal and Infant Health Survey (NMIHS) 1988; 1991
- National Mortality Follow-back Survey (NMFS) 1993
- National Employer Health Insurance Survey (NEHIS) 1994
- National Survey of Early Childhood Health (NSECH) 2000
- National Survey of Children with Special Health Care Needs (CSHCN) 2001, 2005-2006, 2009-2010
- National Asthma Survey (NAS) 2003
- National Survey of Children's Health (NSCH) 2003, 2007, 2011-2012
- Survey of Adult Transition and Health (SATH) 2007
- National Survey of Adoptive Parents (NSAP) 2007
- National Survey of Adoptive Parents of Children with Special Health Care Needs (NSAPSN) 2008
- Survey of Pathways to Diagnosis and Services (SPDS) 2011
- National Survey of Children in Non-Parental Care (NSCNC) 2013
- National Survey of the Diagnosis and Treatment of ADHD and Tourette Syndrome (NS-DATA) 2014

Data Types

- Public-Use Files
 - Files are available for free without registration

Restricted-Use Files

- No PII
- Research Data Center
- Indirect identifiers
- Requires proposal
- User fees



Data Access Tools – HHS

- VitalStats
- Health Indicator Warehouse
- Data 2010
- WISQARS
- CDC Wonder
- Data.CDC.gov
- CDC WONDER (NCHS birth and death data)
- CDC WISQARS (NCHS injury mortality)
- Health Indicators Warehouse (HHS)
- DATA2020 (Healthy People 2020)
- ASPE Health System Measurement Project (HHS)



Data Access Tools – NCHS

- Data Online Query System (DOQS)
- Health Data Interactive
- VitalStats
- ANDRE
- FastStats
- DOQS
- OARS



FastStats



FastStats

- Static
- Low literacy
- Public use
- Frequency, rates, and percentages
- Hard to maintain
 - The site must be updated everytime there is a new release
- Not a research tool
- HTML, PDFs





DOQS

- Dynamic
- Medium literacy
- Public use
- Tables, charts, and graphs
- Easy to maintain
 - Limited data
- Can be used for some research
- HTML, Java, XML, XMLT, SAS

ANDRE



ANDRE

- Dynamic
- High literacy
 - SASonly
- Restricted use
- Anything that is allowed; models
- Hard to maintain
 - New data for each project
 - Software engineers
- Remote execution
- C#, SQL, SAS

<u>OARS</u>

- Dynamic
- Middle literacy
- Restricted use
 - Subsampling, Swapping, Perturbation
- Tables, frequencies, percentages, rates
 - Modeling later
- Theoretically easy to maintain
- HTML, Westvar, SQL, C#, Java

Future Technology

- Dynamic
- Scaleable literacy
- All data
 - Differential Privacy, Homomorphic Encryption
- All analyses
- Easy to maintain