

**Cancer Data Resources
Dartmouth Cancer Center
July 17, 2024
Judy Rees**

This document summarizes sources of publicly available data that may be helpful to cancer researchers and grant writers. These websites are often updated so content may change. If you know of other good sources of data, please let us know. Judy.rees@dartmouth.edu

Dartmouth Biomedical Libraries

<https://researchguides.dartmouth.edu/c.php?g=517073&p=6289098>

Lists a variety of publicly available data on cancer and other areas of healthcare. This is an extensive list that partly overlaps with the data listed separately here. Dartmouth library's list is included as an Appendix to this document.

Dartmouth Cancer Center Data Portal

<https://dcc-catchment-portal.dartmouth.edu/>

Maps of NH and VT showing cancer incidence and mortality by county, risk factors such as smoking prevalence (from BRFSS, see below), and the distributions of DCC patients through the catchment area. Access using your Dartmouth College credentials.

CDC Wonder

<https://wonder.cdc.gov/cancer.html>

- Cancer Incidence 1999 - By year, state, metropolitan area, age group, race, ethnicity, sex, childhood cancers, cancer site
- Cancer Mortality 1999 - By year, state, metropolitan area, age group, race, ethnicity, sex, cancer site
- Cancer Mortality Incidence Rate Ratios 1999 - By year, state, metropolitan area, race, ethnicity, sex, cancer site
- National Program of Cancer Registries 5 year Relative Survival: By race, sex, age group, cancer site. Not by state.

CDC Wonder also includes data on deaths, environment, population, AIDS, diabetes, chronic disease indicators, infectious diseases, pesticide illness and surveillance, life expectancy, state health facts, smoking, drug deaths, and much more: <https://wonder.cdc.gov/WelcomeT.html>

US Cancer Statistics: Data Visualizations

<https://gis.cdc.gov/Cancer/USCS/DataViz.html>

For the most recent 5 years, maps, charts, tables & rankings by state, county, congressional district, sex, race/ethnicity

- Incidence, mortality, prevalence, stage, survival, trends over time
- Risk factors: screening, activity, nutrition, alcohol, tobacco, obesity, HPV vaccination
- Special analyses: brain cancers; cancers grouped by risk factors (HPV-, obesity-, inactivity-, smoking-, & alcohol-related cancers)
- Childhood cancers; cancers in American Indian/Alaska Native

State Cancer Profiles

<https://statecancerprofiles.cancer.gov/index.html>

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Detailed data by state:

- Data by state, county, health service area – maps and tables
- Demographics - census data at state & county level
- Screening & risk factors - at state & county level, colorectal, screening, women's health
- Incidence - trends, rate changes
- Mortality - trends, rate changes

NAACCR On-line Data

<https://www.naaccr.org/interactive-data-on-line/>

- CiNA data explorer: by age, sex, state, region, age, age-specific, 5y survival
- Cancer maps, past 5 years <https://www.cancer-rates.info/naaccr/>
- Cancer in North America volumes
 - Incidence <https://www.naaccr.org/cancer-in-north-america-cina-volumes/#Vol1>
 - Registry <https://www.naaccr.org/cancer-in-north-america-cina-volumes/#Vol2>
 - Mortality <https://www.naaccr.org/cancer-in-north-america-cina-volumes/#Vol3>
 - Survival <https://www.naaccr.org/cancer-in-north-america-cina-volumes/#Vol4>

SEER Cancer Statistics

<https://seer.cancer.gov/statistics/>

SEER collects data from a subset of states. Published data are often restricted to those states, but some of them include all states' data. NH, VT and ME are not SEER states. SEER provides a series of data resources:

- Reports on cancer
<https://seer.cancer.gov/report-to-nation/>
- Annual Report to Nation, Economic burden of cancer, Shareable resources
- Cancer Stat facts
<https://seer.cancer.gov/statfacts/>
Incidence, mortality, survival, stage, prevalence, lifetime risk
- Cancer Statistics Explorer Network
 - SEER*Explorer
<https://seer.cancer.gov/statistics-network/explorer/application.html>
By race, age, gender, stage, cancer subtypes, covering 48% of the U.S. population – incidence, mortality, survival, prevalence, risk, trends over time.
 - NCCR*Explorer
<https://nccrexplorer.ccdi.cancer.gov/>
Childhood, adolescent and young adult cancer statistics, ages 0-39, covering 66% of U.S. population, using ICCC. Incidence, survival. Not mortality, prevalence or risk.
- Interactive Tools, Maps, Graphs
<https://seer.cancer.gov/statistics/interactive.html>
- CI*Rank
<https://surveillance.cancer.gov/cirank/>
Ranked Incidence and Mortality Rates by State, County, and Special Region

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- Small Area Estimates for cancer measures
<https://sae.cancer.gov/>
 - Cancer risk factors and screening
 - Tobacco use & policies
 - Cancer knowledge
- Know your chances cancer risk estimates
<https://knowyourchances.cancer.gov/>
Risk charts showing chance of dying from cancers over specific time frames
- Cancer prevalence & costs of care
<https://surveillance.cancer.gov/research/cost-projections.html>
(website under development as of 09/22)
- Cancer query system: SEER survival statistics for SEER8, SEER17 registries
<https://seer.cancer.gov/canques/survival.html>
- Customizable charts
<https://seer.cancer.gov/explorer/>
 - SEER states combined (cannot break out by state)
 - There is a nice graph showing time trends for incidence v mortality
 - A strength of this site is the break-out of data for cancer subtypes such as HR+/HER2- etc., and histology, tho' not by state.

American Cancer Society

<https://www.cancer.org/>

The American Cancer Society produces aggregate reports but also provides information about specific cancers, including risk factors and treatment options. It is an excellent resource for patients diagnosed with cancer.

National Cancer Database

https://www.facs.org/media/buvfsm0p/22_ca_ncdbtools_8-5x11_v01.pdf

The American College of Surgeons Commission on Cancer oversees data collection from CoC accredited hospital registries which cover about 70% of cancer patients in the US.

National Center for Health Statistics

<https://www.cdc.gov/nchs/hus/index.htm>

Births, deaths, chronic disease, health, infectious diseases, healthcare access, access and expenditures, and more

Data on mortality by rural/urban residence:

<https://www.cdc.gov/nchs/products/databriefs/db417.htm>

Environmental Public Health Tracking

<https://ephtracking.cdc.gov/>

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The National EPHT brings together health data and environmental data from national, state, and city sources and provides supporting information to make the data easier to understand. The Tracking Network has data and information on environments and hazards, health effects, and population health.

CDC Places

<https://www.cdc.gov/places/index.html>

PLACES provides health data for small areas across the country. PLACES provides model-based, population-level analysis and community estimates of health measures to all counties, places (incorporated and census designated places), census tracts, and ZIP Code Tabulation Areas (ZCTAs) across the United States.

Behavioral Risk Factor Surveillance System (BRFSS)

https://www.cdc.gov/brfss/data_tools.htm

Health-related telephone surveys collect state data from U.S. residents about their health-related risk behaviors, chronic health conditions, and use of preventive services. Data on: Alcohol consumption, cholesterol, chronic health indicators, colorectal screening, days of poor health, demographics, e-cigarette use, fruits & vegetables consumption, healthcare access/coverage, health status, HIV, hypertension, immunization, injury, lung screening, oral health, overweight, physical activity, prostate cancer, tobacco use, women's health.

HINTS

<https://hints.cancer.gov/>

The Health Information National Trends Survey (HINTS) regularly collects nationally representative data about the American public's knowledge of, attitudes toward, and use of cancer- and health-related information.

County Health Rankings

<https://www.countyhealthrankings.org/>

A website that compiles data from multiple sources and presents them by state/county. Includes synthesis of data from National Center for Health Stats, BRFSS, cancer, USDA food environment atlas/Map the Meal Gap, EPHT, Safe Drinking water information system, Small area health insurance estimates, EDFacts, Living wage Calculator, Census

USDA Economic Research Service (ERS)

<https://www.ers.usda.gov/data-products/state-fact-sheets/>

State Fact Sheets provide information on population, rurality, income, poverty, food security, education, employment/unemployment, farm characteristics, farm financial indicators, top commodities, and agricultural exports. Links to available county-level data are included where applicable.

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Health Resources & Services Administration

<https://data.hrsa.gov/>

Identify Federally Qualified Health Centers & Lookalikes;
Data on workforce/professionals & shortage areas

US Census and American Community Survey

Age and Sex, Business and Economy, Education, Emergency Management / Disasters, Employment, Families and Living Arrangements, Geography, Health, Hispanic Origin, Housing Income and Poverty, International Trade, Migration/Geographic Mobility, Population, Population Estimates, Public Sector, Race, Redistricting, Research, Voting and Registration

<https://www.census.gov/topics.html>

<https://www.census.gov/programs-surveys/acs/>

National Mortality Database

<http://cdc.gov/nchs/fastats/deaths.htm>

Statistics & Data Sets for Health Care and Public Health

<https://researchguides.dartmouth.edu/c.php?g=517073&p=6289098>

An inventory of Statistics & Data Sets for Health Care and Public Health, compiled by Dartmouth College libraries.

Global Health Data

<https://researchguides.dartmouth.edu/c.php?g=517073&p=6289100>

New Hampshire Data

- NH WISDOM (search tool for health metrics in NH including cancer and many other topics)
<https://wisdom.dhhs.nh.gov/wisdom/#main>
- NH Public Health Tracking
<https://www.nh.gov/epht/data-portal/index.htm>
- New Hampshire State Cancer Registry website
<https://geiselmed.dartmouth.edu/nhscr/>
- Researchers can request NH cancer data for research
<https://www.dhhs.nh.gov/programs-services/disease-prevention/cancer/cancer-registry>
- NH Public Health reports
<https://www.dhhs.nh.gov/programs-services/disease-prevention/cancer/cancer-registry>
- Seacoast investigation
<https://www.dhhs.nh.gov/programs-services/disease-prevention/cancer/cancer-concerns-and-investigations/investigation>
- NH Cancer Collaboration
<https://www.dhhs.nh.gov/programs-services/disease-prevention/cancer/nh-cancer-collaboration>

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- NH PFAS page
<https://www.dhhs.nh.gov/programs-services/environmental-health-and-you/poly-and-fluoroalkyl-substances-pfas>
- Merrimack kidney cancer investigation
<https://www.dhhs.nh.gov/programs-services/disease-prevention/cancer/cancer-concerns-and-investigations/investigation-kidney>
- Department of Environmental Services PFAS
<https://www.pfas.des.nh.gov/>
- DES Environmental Health Guide and training videos featuring Dartmouth researchers
<https://www.des.nh.gov/blog/environmental-health-guide>
<https://www.des.nh.gov/home-and-recreation/your-health-and-environment>
- Town of Merrimack, NH
<https://www.merrimacknh.gov/>

Vermont Cancer data

- Cancer data
<https://www.healthvermont.gov/stats/data>
- VT Environmental Public Health Tracking
<https://www.healthvermont.gov/environment/tracking>
- Various cancer topic reports, VT
<https://www.healthvermont.gov/health-statistics-vital-records/surveillance-reporting-topic/cancer>
- Vermonters taking action against cancer
<https://vtaac.org/>
- Vermont PFAS pages
<https://www.healthvermont.gov/environment/drinking-water/perfluoroalkyl-and-polyfluoroalkyl-substances-pfas>
<https://dec.vermont.gov/pfas>

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Appendix

Dartmouth inventory of health data as of May 12, 2024 (the Biomedical Libraries may update their list to add or change these categories)

Dartmouth Biomedical Libraries

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National Data and Statistics

Behavioral Risk Factor Surveillance System (BRFSS)

Sponsored by the CDC and other federal agencies, BRFSS collects self-reported data on health behaviors, chronic conditions, and use of preventative services.

Directory of Research & Statistics (HHS)

Directory to research, data sources, and statistics from all operating divisions of the U.S. Department of Health and Human Services.

Diseases, Risks & Vital Statistics (CDC)

Maps, graphs, and tables by state and year for many diseases, risk factors, and vital statistics.

Downloadable Health Datasets (HealthData.gov)

Downloadable datasets on health, inpatient health care, health care quality, and geographic data on health and health care.

National Center for Health Statistics (NCHS)

Data visualization, searchable statistics, and interactive queries on health and health care.

National Health Safety Network

Surveillance reports published by CDC using data from the National Healthcare Safety Network (NHSN). Reports are organized by topic, and include summaries of healthcare-associated infections, antimicrobial use and resistance, healthcare personnel influenza vaccination rates, and dialysis events.

National Surveys & Data Systems (HHS)

An annotated directory of all surveys and data sources available from the U.S. Department of Health and Human Services from the following agencies: CDC, NIH, HRSA, CMS, AHRQ, SAMHSA

Statista

Graphs and tables on health, the global pharmaceutical industry, environmental services (such as wastewater treatment and waste management), demographics, employment, poverty, the tobacco industry, gambling, and fitness in the U.S., plus many industries and aspects of society. Reports also available by country. *Statista is a subscription service available to Dartmouth students and employees.*

U.S. Public Health Databases (CDC Wonder)

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Interactive queries of CDC databases for public health, including chronic conditions, communicable diseases, environmental health, behavior & health, prevention, injury prevention, health promotion, and occupational health.

[U.S. Public Health Issues \(Surgeon General\)](#)

Reports by the U.S. Surgeon General of the Public Health Service.

State-level Data and Statistics

[Health & Care by State \(Kaiser\)](#)

Tables, maps, and graphs of health status and aspects of health care, insurance coverage, and health policy by state.

[Health Care Variation \(Dartmouth Atlas\)](#)

Interactive queries and downloadable datasets about health care, including care of surgical conditions, prescription drug use, hospital use, and hospital and physician capacity by state and locality.

[Outcomes & Determinants \(Health Rankings\)](#)

Graphs, maps, tables, and downloadable datasets on health outcomes and determinants of health by state.

[Spending by State and County \(CMS\)](#)

Interactive dashboards for standardized Medicare spending by state and county.

[State Snapshots \(CDC\)](#)

[Vermont Department of Health](#)

Access to public health data, news, and resources pertaining to healthcare in Vermont (scroll to Reports).

Local Data and Statistics

[City Health Dashboard](#)

36 measures of health for the 500 largest cities in the USA

[County Health Outcomes & Factors \(CHRankings\)](#)

Statistics at the county level on factors such as:
quality of life, health behaviors, clinical care, social and economic factors, and physical environment

[Rural Data Explorer](#)

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

[U.S. Census Bureau](#)

The American Fact Finder provides statistics from both the Census and the American community by: state, county, city, town, zip code, census tract.

Local public health departments

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Maine Center for Disease Control & Prevention

Data and reports on chronic diseases, behavioral risk factors, chronic diseases, injuries, environmental factors, and oral health in the state.

Massachusetts Population Health Statistics

For the state: Healthy People Leading Indicators, Population Information, Regional Health Status Indicators, Race and ethnicity Reports, Smoking Reports.

New Hampshire (NH HHS)

Interactive dashboards, community profiles and brief reports on health behaviors, chronic diseases, infectious diseases, environmental health, immunizations, Medicaid usage, and emergency department visits in the state.

Vermont Department of Health

Access to public health data, news, and resources pertaining to healthcare in Vermont (scroll to Reports).

Health Spending, Utilization, and Quality of Care

Cost & quality of care (NH HealthCost)

After inputting an insurance company, plan type, deductible, and co-insurance, displays estimated total cost for facilities and professionals in New Hampshire. Compare costs for medical procedures, dental procedures, prescriptions, and lab tests. Also, quality indicators for all New Hampshire hospitals and health insurance costs for employers.

Diffusion of Procedures (Dartmouth Institute)

Publicly available source of data providing researchers, payers, regulators, and innovators with metrics quantifying the temporal and regional patterns of health care spending and utilization, particularly with regard to the diffusion and exnovation of medical interventions.

Healthcare Cost & Utilization (HCUPnet)

Graphs and tables on hospital stays (overall and by payer and by state), mental health hospitalizations, readmissions, ambulatory surgeries, emergency department use, and quality improvement indicators.

Hospital Ownership & Expenses (AHA)

Graphs and counts including the number of registered hospitals in the U.S. by ownership type, plus number of beds, admissions, and expenses.

Hospital Services & Financials (AHD)

Hospital profiles including key characteristics, services provided, utilization statistics, accreditation status, and financial information. Statistics by hospital, state, and nation, including bed size, discharges, patient days, and gross patient revenue.

Medicare & Medicaid (CMS)

Directory of research, statistics, data and systems. Topics include chronic conditions, program rates and statistics, actuarial studies, and financing.

Nonprofit Hospital Study (IRS)

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This 2009 study focused on community benefit provided by U.S. nonprofit hospitals (500 in all) consistent with rules for federal tax exemption: patient insurance mix, uncompensated care (charity care and bad debt), and CEO compensation.

Policy, Costs & Payment (Kaiser)

Graphics, interactives, and reports on topics including disparities policy, health care costs, health care reform, insurance (including the uninsured), and U.S. commitment to global health policy. *Click the "Menu" icon at the upper left*

ProPublica Health Data Sets

Health data sets from ProPublica on a variety of measures; prescriber information, hospital analyses, clinical trial data, and more. Some are freely available and others are behind a paywall.

Quality Measures by Hospital (CMS)

Compare hospitals on patient experience, timely and effective care, complication rates, readmissions and deaths, use of medical imaging, payment and value of care. Compare up to 3 hospitals in a single view online or download the entire database for 4000 hospitals.

Variation in Spending, Utilization & Quality (CMS)

File downloads on demographics, spending, utilization, and quality indicators for Medicare's fee-for-service population, by state, hospital referral region (HRR) and county.

Food and Drug Data

Drugs, Devices & Foods (FDA)

Interactive queries of OpenFDA, covering food recalls and adverse events, product labeling, and recall enforcement for both drugs and devices. Datasets are also available for download.

Pharmaceutical Industry (Census Bureau ISP)

Directory to 13 data sources related to U.S. pharmaceutical and medicine manufacturing industries.

Workplace Injuries

Workplace Injuries (OSHA)

Tables and reports of rates of workplace injury, illness, and fatalities.

Dartmouth AI

Consider asking Dartmouth's instance of ChatGPT your data question, but remember it isn't always right.

<https://ai.dartmouth.edu/>