

# National Home and Hospice Care Survey (NHHCS)

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      - American Hospital Association Annual Survey of Hospitals
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## General Information

- **Topic/focus:** Healthcare Facilities and Services
- **Year(s):** 1992, 1994, 1996, 1998, 2000, 2007
- **Source:** National Center for Health Statistics
- **Study and sample characteristics:** Interview, medical records
- **Universe:** Home health agencies and hospices and their current and discharge patients
- **Variables:** Varies by year
- **Access:** Publicly available
- **Cost:** Free
- **Key web links:** [National Home and Hospice Care Survey \(NHHCS\)](#)
- **Summary:** The NHHCS provides information on all types of agencies that provide home health and hospice care without regard to whether they are Medicare- or Medicaid-certified or whether they are licensed. The NHHCS is organized into the agency, current patient, and discharged patient files and includes data items on agency ownership, affiliation, and patient and staff counts; current patient demographics, diagnoses, procedures, assistive devices, activities of daily living, services, and payment information; and discharged patient demographics, diagnoses, procedures, assistive devices, activities of daily living, services, and payment information.

Chronic  
condition  
data  
warehouse

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Dartmouth  
Atlas of  
Health Care

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Dartmouth  
Atlas  
Project

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Demographic  
Health  
Survey (DHS)

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Healthcare Co  
and Utilization  
Project(H-  
CUP/HCUPNE

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Health  
United  
States

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ICPSR

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Innovation in  
Medical Eviden  
Development &  
Surveillance(I

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Integrated  
Public Use  
Microdata  
Series

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Kaiser  
family  
foundation  
state level  
health facts

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LSOA II

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Medical  
Expenditure  
Panel  
Survey(MEPS)

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information.

## Data Tables

### Data for 2007

- All data in the table corresponds a number to a actual value which can be numerical or text based and the data dictionary shows
- "-1", "-7", and "-8" usually correspond to either an empty cell or error in the database and can be ignored.
- "1" and "2" usually correspond to yes or no when they are the only available answers, but can correspond to MALE/FEMALE in one instance.

### AgencyPUF

- **Data Tables:**
  - **Sas Format:**[ location]
  - **Fixed Length Text:**[ location]
- **Data Dictionary:** [Location](#)

### MedicationsPUF

- **Note:** This table has been heavily modified as outlined below due to the numerous many to many relationship in the flat file. This was done in order to reduce the amount of memory the server required to store it and to speed up queries.
- **Original Data Dictionary:** [Location](#)

### CatgeoryInfo

- **\*Summary:**\*This table is used in order to find which category of drug the RXCAT links to. The medscategorylink bridge table links the drugs and each category that each drug belongs to. The category table is split off from the medical table due to that for original data set the rxv# was the same for every rxcat. Because of this the data was duplicated for every drug with this category.
  - **rxcat:** Reflects the most detailed therapeutic level to which the drug can be classified.
    - "" = Blank/not applicable
    - 001 - 899 = Drug category
    - 999 = Undetermined category"
  - **catdscr:** Description of the categories outlined in [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset)
  - **rxv1:** Level 1 of MULTUM Drug Category"
    - "" = Blank/not applicable
    - 001 - 899 = Drug category
    - 999 = Undetermined category"

Medicare  
Current  
Beneficiary  
Survey  
Survey  
(MCBS)

Medicare  
Healthcare  
Cost Report  
Information  
System(HCRIS)

Medicare  
Provider  
Utilization  
and  
Payment  
Data

MEPSnet

National  
Ambulatory  
Medical  
Care  
Survey  
(NAMCS)

National  
Health Aging  
Trends  
Study(NHATS)

National  
Health and  
Nutrition  
Examination  
Survey  
(NHANES)

National  
Health  
Examination  
Survey(NHES)  
Cycle\_II

National  
Health  
Examination  
Survey  
(NHES)  
Cycle I

- **rxv2:** Level 2 of MULTUM Drug Category,
  - "" "" = Blank/not applicable 001 - 899 = Drug category 999 = Undetermined category"
- **rxv3:** Level 3 of MULTUM Drug Category
  - "" "" = Blank/not applicable 001 - 899 = Drug category 999 = Undetermined category"

### medscategorylink

- **Summary:** Bridge Table to link the medscore table and the categoryinfo tables
  - **drugid:** Id of the drug
    - a10001-a71037 = NCHS code (for drugs not found in MULTUM but for which ingredients could be determined)
    - c00012-c00899 = NCHS code (for drugs not found in MULTUM and with undetermined ingredients)
    - d00001-d06848 = MULTUM code "
  - **categoryid:**
    - id of the category

### medscore

- **Summary:** Table listing the drugs and their ids
  - **drugid** Generic drug code
    - a10001-a71037 = NCHS code (for drugs not found in MULTUM but for which ingredients could be determined)
    - c00012-c00899 = NCHS code (for drugs not found in MULTUM and with undetermined ingredients)
    - d00001-d06848 = MULTUM code
  - **drugdscr:** Description of the Drugids outlined in [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset)
  - **prescr:** Prescription status code
    - 1 = Prescription drug
    - 2 = Nonprescription drug
    - 3 = Undetermined "
  - **constsub:** "Controlled substance status code "
    - 1 = Schedule I (Research Only)
    - 2 = Schedule II
    - 3 = Schedule III
    - 4 = Schedule IV
    - 5 = Schedule V
    - 6 = No control
    - 7 = Undetermined
  - **comstat:** Composition status code
    - 1 = Single entity drug
    - 2 = Combination drug
    - 3 = Undetermined

### Medsinfo

National Health Examination Survey (NHES) Cycle III

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National Health Interview Survey (NHIS)

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National Health Interview Survey (NHIS) Multiple Cause-of-Death Public Use Data File

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National Health Interview Survey (NHIS) State Data Files

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National Health Interview Survey on Disability (NHID) Phase I and II

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**National Home and Hospice Care Survey (NHHCS)**

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National Hospital Ambulatory Medical Care Survey (NHAMC)

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National Hospital Discharge Survey (NHDS)

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- **Summary:** Information about the patient's general drug usage. Unsplittable information of the original MEDICATIONPUF data
  - **PATNUM:** Patient/Discharge Record (Case) Number
    - 400001-501410 = valid patient/discharge identification number
  - **PTAGYNUM:** Agency Record (Case) Number
    - 4000-5014=valid agency identification number. PTAGYNUM is a unique agency identifier and is not identical to agency identifiers in the agency public-use file or agency identifiers in the home health aides public-use file. For requirement of confidentiality, these files cannot be linked.
  - **PHTYPE:** Patient type
    - 1. Current home health patient
    - 2. Hospice discharge
  - **TOTALRX:** Total number of medications taken by patient/discharge
    - -8=don't know
    - -7=information refused
    - 0-25=valid total number
  - **PSTRATA:** Sample Design Variable (SUDAAN NEST variable)
  - **POPPAT:** Sample Design Variable (SUDAAN TOTCNT variable)
    - 1-19041=valid design variable
  - **POPAGN:** Sample Design Variable (SUDAAN TOTCNT variable)
    - 208-9196=valid design variable
  - **SAMWT:** Sample weight for current home health patients and annual hospice discharges
    - 1-1367=valid patient/discharge sample weight
  - **SURYEAR:** Survey year 2007

#### medslist

- **Summary:** Bridge table between medsinfo and medscopy. Patnum can be used to link the patientpuf with the medicalpuf
  - **recordid:** Created identifier when normalizing the table might be removed if determined extraneous
  - **patnum:** Patient/Discharge Record (Case) Number
    - 400001-501410 = valid patient/discharge identification number
  - **pmcodeb:** Medication 24 code
    - Blank. No medication taken
    - 00002-99227 = medication code
    - 90000 = non-medication
  - **drugid:** Generic drug code

National  
Nursing Home  
Survey(NNHS)

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National  
Survey of  
Ambulatory  
Surgery  
(NSAS)

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Nationwide  
Inpatient  
Sample(NIS)

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NCHS-CMS  
Medicare  
and NCHS-  
USRDS  
Data

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NDFRT

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RESDAC  
CMS Data

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School Health  
Policies and  
Programs  
Study(SHPPS)

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SEER-  
Medicare

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SIPP

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State of  
Aging and  
Health  
Report

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The  
biennial  
National  
Study of  
Long-Term  
Care  
Providers  
(NSLTCP)

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The MIMIC  
II Clinical  
Database  
Demo

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- a10001–a71037 = NCHS code (for drugs not found in MULTUM but for which ingredients could be determined)
- c00012–c00899 = NCHS code (for drugs not found in MULTUM and with undetermined ingredients)
- d00001–d06848 = MULTUM code

## PatientPUF

- **Data Tables:**
  - **Sas Format:**location
  - **Fixed Length Text:**location
- **Data Dictionary:** Location

## Data for 2000

- **Data Dictionary:** Location

## Data for 1998

- **Data Dictionary:** Location

## Data for 1996

- **Data Dictionary:** Location

## Sources

All information relating to data elements descriptions and database summaries have been pulled from the database providers website located here: <http://www.cdc.gov/nchs/nhhcs.htm>.

The National  
Hospital Care  
Survey(NHCS)

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The  
Organisation  
for  
Economic  
Co-operation  
and  
Development  
international  
health  
statistics

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U.S.  
Census  
Bureau  
Data

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U.S.  
Nursing  
Home  
Information  
and  
Registry

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Us  
Preventive  
Services  
Task Force

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Visiting  
Nurse  
Service of  
New York

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Web-Based Inj  
Statistics Que  
and Reporting  
System(WISQ,

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Wide-Ranging  
Data for Epide  
Research(CDC

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ZCTA  
County

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Download,  
normalization,  
and upload  
procedure for  
datasets.

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In-Progress  
Databases

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LastPass  
Enterprise

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Software Tools

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Training  
Materials