# NATIONAL HOSPITAL DISCHARGE SURVEY 1996 PUBLIC USE DATA TAPE DOCUMENTATION 


#### Abstract

This material provides documentation for users of the 1996 NHDS Public Use Data Tape. The NHDS is conducted annually by the National Center for Health Statistics (NCHS) and is a principal source of information on inpatient hospital utilization in the United States.

Section I describes the survey and includes information on the history and scope of the NHDS; the methodology followed, including data collection and medical coding procedures; population estimates; measurement errors and sampling errors.

Section II provides technical details of the tape.

Section III provides a detailed description of the contents of each data record.

Appendix A defines certain terms used in this document; Appendix B lists the ICD-9-CM Addenda; Appendix C provides population estimates to allow the user to calculate rates; and Appendix D provides unweighted and weighted frequencies for selected descriptive variables.


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## I. DESCRIPTION OF THE NATIONAL HOSPITAL DISCHARGE SURVEY

INTRODUCTION. This document and its appendices contain information for users of the 1996 National Hospital Discharge Survey (NHDS) public use data file. Conducted annually by the National Center for Health Statistics, NHDS collects medical and demographic information from a sample of discharge records selected from a national sample of nonFederal, short-stay hospitals. The data serve as a basis for calculating statistics on inpatient hospital utilization in the United States. For a brief description of the survey design and data collection procedures, see below. For a more detailed description of the survey design, data collection procedures, and the estimation process, see Reference 1. Publications based on the data for each survey year can be obtained from the Government Printing Office.

HISTORY. To provide more complete and precise information on the utilization of the Nation's hospitals and on the nature and treatment of illness among the hospitalized population, in 1962 the NCHS began exploring possibilities for surveying morbidity in hospitals. A national advisory group was established. The NCHS conducted planning discussions with other officials of the Public Health Service. Hospitalization material from the Survey Research Center of the University of Michigan, the American Hospital Association, and the Professional Activities Study was examined and evaluated. In 1963, a study by the School of Public Health of the University of Pittsburgh under contract to the NCHS demonstrated the feasibility of an NHDS type of program. An additional pilot study using enumerators from the Bureau of the Census was conducted in late 1964 and confirmed the University of Pittsburgh's findings.

Finally, with advice and support from the American Hospital Association, the American Medical Association, individual experts, other professional groups, and officials of the U.S. Public Health Service, the NCHS initiated the National Hospital Discharge Survey in 1964.

## SURVEY METHODOLOGY

SOURCE OF THE DATA. The National Hospital Discharge Survey (NHDS) covers discharges from noninstitutional hospitals, exclusive of Federal, military, and Veterans Administration hospitals, located in the 50 States and the District of Columbia. Only short-stay hospitals (hospitals with an average length of stay for all patients of less than 30 days) or those whose specialty is general (medical or surgical) or children's general are included in the survey. These hospitals must also have six or more beds staffed for patient use. These criteria, used from 1988 through the current survey year, differ slightly from those used prior to 1988.

Beginning in 1988, the NHDS sampling frame consisted of hospitals that were listed in the April 1987 SMG Hospital Market Tape (2), met the above criteria, and began accepting patients by August 1987. The hospital sample was updated in 1991 and 1994, to allow for
hospitals that opened later or changed their eligibility status since the previous sample update. For 1996 the sample consisted of 525 hospitals. Of the 525 hospitals, 18 were found to be out of scope (ineligible) because they went out of business or otherwise failed to meet the criteria for the NHDS universe. Of the 507 inscope (eligible) hospitals, 480 hospitals responded to the survey.

SAMPLE DESIGN AND DATA COLLECTION. The NCHS has conducted the NHDS continuously since 1965. The original sample was selected in 1964 from a frame of short-stay hospitals listed in the National Master Facility Inventory. That sample was updated periodically with samples of hospitals that opened later. Sample hospitals were selected with probabilities ranging from certainty for the largest hospitals to 1 in 40 for the smallest hospitals. Within each sample hospital, a systematic random sample of discharges was selected. A report on the design and development of the original NHDS has been published (1).

In 1988, the NHDS was redesigned to provide geographic sampling comparability with other surveys conducted by the NCHS; to update the sample of hospitals selected into the survey; and to maximize the use of data collected through automated systems. As did the original design, the redesigned NHDS sample included with certainty the largest hospitals. The remaining sample of hospitals was based on a stratified, three-stage design. The first stage consisted of selecting 112 primary sampling units (PSU's) that comprised a probability subsample of PSU's used in the 1985-94 National Health Interview Survey. The second stage consisted of selecting non-certainty hospitals from the sampled PSU's. At the third stage a sample of discharges was selected by a systematic random sampling technique.

These changes in the survey may affect trend data. That is, some of the differences between NHDS statistics based on the 1965-87 sample and statistics based on the sample drawn for the new design may be due to sampling error rather than actual changes in hospital utilization.

Two data collection procedures were used for the survey. The first was a manual system of sample selection and data abstraction, used for approximately 62 percent of the responding hospitals. The second was an automated method, used for approximately 38 percent of the responding hospitals, that involved the purchase of computerized data tapes from abstracting service organizations, state data systems, or from the hospitals themselves.

In the manual system, the sample selection and the transcription of information from the hospital records to abstract forms were performed at the hospitals. Of the hospitals using this system in 1996, about 34 percent had the work performed by their own medical records staff. In the remaining hospitals using the manual system, personnel of the U.S. Bureau of the Census did the work on behalf of NCHS. The completed forms, along with sample selection control sheets, were forwarded to NCHS for coding, editing, and weighting.

For the automated system, NCHS purchased tapes containing machine-readable medical
record data from which records were systematically sampled by NCHS.

The Medical Abstract Form and the automated data contain items relating to the personal characteristics of the patient, including birth date or age, sex, race, and marital status, but not name and address; administrative information, including admission and discharge dates, discharge status, and medical record number, and medical information, including diagnoses and surgical and nonsurgical procedures. Since 1977, patient zip code, expected source of payment, and dates of surgery have also been collected. (The medical record number, date of birth, and patient zip code are confidential information and are not available to the public.)

MEDICAL CODING AND EDIT. The medical information that was recorded manually on the sample patient abstracts was coded centrally by NCHS staff. A maximum of seven diagnostic codes was assigned for each sample abstract. In addition, if the medical information included surgical or nonsurgical procedures, a maximum of four codes for these procedures was assigned. The system currently used for coding the diagnoses and procedures on the medical abstract forms as well as on the commercial abstracting services data tapes is the International Classification of Diseases, 9th Revision, Clinical Modification, or ICD-9-CM (3).

NHDS usually presents diagnoses and procedures in the order they are listed on the abstract form or obtained from abstract services; however, there are exceptions. For women discharged after a delivery, a code of V27 from the supplemental classification is entered as the first-listed code, with a code designating either normal or abnormal delivery in the second-listed position. In another exception, a decision was made to reorder some acute myocardial infarction diagnoses. If an acute myocardial infarction is listed with other circulatory diagnoses and is other than the first entry, it is reordered to first position. If a symptom appears as a first-listed code and a diagnosis appears as a secondary code, the diagnosis replaces the symptom which is moved back.

Following conversion of the data on the medical abstract to computer tape and combining it with the automated data tapes, a final medical edit was accomplished by computer inspection and by a manual review of rejected records. Priority was given to medical information in the editing decision.

A new edit program was developed for the NHDS and was implemented beginning in the 1996 data year. The updated edit program, while following the same general specifications as the previous edit program, was designed to make as few changes as possible in the data. Thus, there may be some minor anomalies in certain areas which would be apparent when examining data over time, performing trend analyses, or examining combinations of variables. Particular features of the new edit program which may affect certain variables are: < An improved imputation procedure for missing age and sex data was developed, which maintains the known distribution of these variables, according to categories
of the First-Listed Diagnosis.
$<$ There is no longer a re-ordering of the procedure codes.
< Principal and additional expected sources of payment are no longer re-ordered, with one exception: "Self-Pay" is listed as the principal source only if there are no other sources, or the only other source is "Not Stated"; otherwise it must be listed after every other source (except "Not Stated").
$<$ An arbitrary month of admission is no longer assigned to records received from abstract services which do not provide the exact date of admission and discharge.

Users of the National Hospital Discharge Survey (NHDS) diagnostic and/or procedure data, which is coded to the ICD-9-CM, must take into account annual ICD-9-CM addenda. The addenda lists new codes, new fourth or fifth digits to existing codes, as well as other modifications. Changes go into effect October 1 of the calendar year. A list of the changes for 1986 through 1995 are listed in Appendix B. All coding of the 1996 data is consistent with the ICD-9-CM and the addendum effective October 1, 1995. Information provided by automated systems for the last three months of 1996 which was coded using the October 1996 addendum was converted back to the previous code assignment. This was done in order to prevent NHDS data users from mistaking partial year estimates for annual estimates.

THE UNIFORM HOSPITAL DISCHARGE DATA SET (UHDDS). Starting with 1979 data, the NHDS has followed guidelines of the Uniform Hospital Discharge Data Set (UHDDS) within the confines of its contractual agreement with participating hospitals. The UHDDS is a minimum data set of items uniformly defined (4). These items were selected on the basis of their usefulness to a broad range of organizations and agencies requiring hospital information, uniformity of definition, and general availability from medical records and abstract services.

POPULATION. Appendix C shows population estimates provided by the U.S. Bureau of the Census. The estimates are of the U.S. civilian resident population on July 1 of the data year. These population estimates are consistent with those published in Current Population Reports, Series P-25; however, they are not official population estimates of the Bureau of the Census.

MEASUREMENT ERRORS. As in any survey, results are subject to nonsampling or measurement errors, which include errors due to hospital nonresponse, missing abstracts, information incompletely or inaccurately recorded on abstract forms, and processing errors. A very small proportion, (less than one-half of one percent) of the discharge records failed to include the sex, age, or date of birth of the patient. If the hospital record did not state either the age or sex of patient, it was imputed by assigning an age or sex value according to the specifications described earlier. In a very few cases (about a quarter of a percent of the records), the age or sex was edited, because it was inconsistent with the diagnosis. Data on race was missing for 23 percent of the discharges, and no attempt was made to impute for these missing values.

During 1996, 15 percent of the records lacked the day of admission or day of discharge, but included a length of stay. Because the new edit program does not require exact admission or discharge dates if length of stay is provided on the record, no attempt was made to impute for these missing values.

Other edit and imputation procedures may have been applied to data in the NHDS collected in automated form.

SAMPLING ERRORS AND ROUNDING OF NUMBERS . The standard error is primarily a measure of sampling variability that occurs by chance because only a sample rather than the entire universe is surveyed. The relative standard error of the estimate is obtained by dividing the standard error by the estimate itself. The resulting value is multiplied by 100 , so the relative standard error is expressed as a percent of the estimate. Estimates of sampling variability were calculated with SUDAAN software, which computes standard errors by using a first-order Taylor series approximation of the deviation of estimates from their expected values. A description of the software and the approach it uses was published by Shah, Barnwell, and Bieler (5).

## RELATIVE STANDARD ERRORS FOR AGGREGATE ESTIMATES

Parameters for calculating approximate relative standard errors for aggregate estimates are presented in Table 1. To derive error estimates that would be applicable to a wide variety of statistics, numerous estimates and their variances were produced. A regression model was then used to produce best-fit curves, based on the empirically determined relationship between the size of an estimate X and its relative variance.

The relative standard error of an estimate, $\operatorname{RSE}(\mathrm{X})$, may be calculated from the formula:

$$
\operatorname{RSE}(X)=\operatorname{SQRT}(a+b / X)
$$

with $a$ and $b$ provided in the accompanying table. When multiplied by $100, \operatorname{RSE}(X)$ is expressed as a percent of X .

For example, in 1996 the estimated number of discharges from short-stay hospitals for females with a first-listed diagnosis of atherosclerotic heart disease (ICD-9-CM code 414.0) was 416,000 . Using the applicable constants from Table 1 for estimates by sex produces:

$$
\operatorname{RSE}(416,000)=\operatorname{SQRT}[.00157+(384.999 / 416,000)]=.0500
$$

Expressed as a percent, $\operatorname{RSE}(416,000)=5.0 \%$

The relative standard error for the estimate of interest is 5.0 percent. From this the standard error is obtained by multiplying the relative standard error by the estimate:

$$
\operatorname{SE}(416,000)=416,000 * 5.0 \%=20,800
$$

The standard error can be employed to generate confidence intervals for statistical testing. In this example, the $95 \%$ confidence interval for the estimate of female inpatients with a first-listed diagnosis of atherosclerotic heart disease is:

LOWER LIMIT: $\quad 416,000-1.96 * 20,800=375,232$
UPPER LIMIT: $\quad 416,000+1.96 * 20,800=456,768$

## RELATIVE STANDARD ERRORS FOR ESTIMATES OF PERCENTS

Approximate relative standard errors for estimates of percents may be calculated using values from Table 1 also. The relative standard error for a percent, 100 p where $(0<p<1)$, may be calculated using the formula:

$$
\operatorname{RSE}(\mathrm{p})=\operatorname{SQRT}[\mathrm{b} *(1-\mathrm{p}) /(\mathrm{p} * \mathrm{X})]
$$

where 100 p is the percent of interest, X is the base of the percent, and b is the parameter b in the formula for approximating the RSE(X). Values for b are given in Table 1.

For example, in 1996 the estimated number of discharges from short-stay hospitals which were female was $18,435,000$. This is 60.4 percent of the estimated $30,545,000$ discharges for that year. Using the applicable constants for estimates by sex produces:

$$
\operatorname{RSE}(.604)=\operatorname{SQRT}[384.999 *(1-.604) /(.604 * 30,545,000)]=0.00288
$$

Expressed as a percent, $\operatorname{RSE}(.604)=0.288 \%$
The relative standard error for the estimate of interest is 0.288 percent. From this the standard error is obtained by multiplying the relative standard error by the estimate:

$$
\mathrm{SE}(.604)=.604 * 0.288 \%=.0017
$$

The standard error can be employed to generate confidence intervals for statistical testing. In this example, the $95 \%$ confidence interval for the estimate of the percentage of female inpatients is:

LOWER LIMIT: . $604-1.96 * .0017=.6007=60.07 \%$
UPPER LIMIT: $.604+1.96 * .0017=.6073=60.73 \%$

TABLE 1. Parameter values for relative standard error curves for National Hospital Discharge Survey aggregate statistics, by statistics type: United States, 1996

|  | First-Listed Diagnosis |  | All-Listed Diagnoses |  | Days of Care | All-Listed Procedures |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 兂 | b | a | b | a | b |  | b |
| TOTAL | 0.00135 | 355.278 | 0.00315 | 340.624 | 0.00422 | 961.321 | 0.00265 | 367.004 |
| Male | 0.00153 | 328.232 | 0.00412 | 323.367 | 0.0059 | 104.936 | 0.00347 | 330.761 |
| Female | 0.00157 | 384.999 | 0.00174 | 322.104 | 0.00226 | ,341.036 | 0.00278 | 331.207 |
| Und15 | 0.01700 | 229.443 | 0.01958 | 289.646 | 0.02006 | 722.724 | 0.01858 | 236.345 |
| 15-44 | 0.00158 | 322.959 | 0.00265 | 328.234 | 0.00317 | 997.933 | 0.00398 | 298.470 |
| 45-64 | 0.00147 | 321.327 | 0.00235 | 302.405 | 0.00323 | 1,186.155 | 0.00373 | 293.436 |
| 65\&Up | 0.00157 | 340.854 | 0.00196 | 309.446 | 0.00296 | 1,593.926 | 0.00252 | 277.559 |
| NE | 0.00437 | 213.840 | 0.01157 | 277.233 | 0.00778 | 632.459 | 0.00668 | 234.728 |
| MW | 0.01253 | 384.988 | 0.00819 | 183.086 | 0.00783 | 701.464 | 0.00821 | 154.838 |
| SO | 0.00358 | 350.427 | 0.00388 | 306.111 | 0.00671 | 923.876 | 0.00441 | 270.511 |
| WE | 0.00519 | 389.105 | 0.00822 | 420.446 | 0.01139 | 1,093.364 | 0.00829 | 369.526 |
| White | 0.00288 | 344.126 | 0.00424 | 396.381 | 0.00683 | 958.234 | 0.00446 | 378.885 |
| Black | 0.00698 | 240.332 | 0.00771 | 1276.320 | 0.01082 | 754.460 | 0.00817 | 237.593 |
| Other | 0.02162 | 208.929 | 0.02079 | 230.003 | 0.03905 | 304.882 | 0.02340 | 179.421 |
| NS | 0.01766 | 230.613 | 0.01928 | 200.987 | 0.02187 | 627.572 | 0.01829 | 212.222 |
| WC | 0.00509 | 304.826 | 0.00931 | 1283.960 | 0.00669 | 1,467.813 | 0.01162 | 277.455 |
| Mcare | 0.00174 | 341.447 | 0.00210 | 326.982 | 0.00327 | 1,626.007 | 0.00244 | 286.803 |
| Mcaid | 0.00441 | 278.567 | 0.01071 | 1244.514 | 0.00744 | 1,047.394 | 0.00610 | 266.303 |
| NS | 0.01795 | 324.671 | 0.02042 | 310.113 | 0.02161 | 2,341.849 | 0.02469 | 260.039 |
| OGOV | 0.00212 | 324.673 | 0.00319 | 323.036 | 0.00322 | 1,102.728 | 0.00318 | 8289.470 |
| Private | 0.00432 | 286.980 | 0.00588 | 297.950 | 0.01006 | 747.057 | 0.01101 | 232.298 |
| SelfPay | 0.02025 | 156.446 | 0.02058 | 171.334 | 0.03048 | 309.822 | 0.02773 | 134.803 |
| NC/Oth | 0.03311 | 303.321 | 0.08591 | 1272.588 | 0.06216 | 1,446.674 | 0.08680 | 0619.590 |

PRESENTATION OF ESTIMATES. Publication of estimates for the NHDS is based on the relative standard error of the estimate and the number of sample records on which the estimate is based. Estimates are not presented in NCHS reports unless a reasonable assumption regarding the probability distribution of the sampling error is possible.

Based on consideration of the complex sample design of the NHDS, the following guidelines are used for presenting the NHDS estimates:

If the sample size is less than 30 , the value of the estimate is not reported.

If the sample size is $30-59$, the value of the estimate is reported but should not be assumed reliable.

If the sample size is 60 or more and the relative standard error is less than 30 percent, the estimate is reported.

If the relative standard error of any estimate is over 30 percent, the estimate is considered to be unreliable. It is left to the author to decide whether or not to present it. However, if the author chooses to present the unreliable estimate, the consumer of the statistic must be informed that the statistic is not reliable.

## MONTHLY AND SEASONAL ESTIMATES UNDER THE NEW DESIGN.

An important difference between the old and new designs is the method used to adjust for nonresponse. In the old design, weights for responding hospitals were adjusted each month to account for hospitals that did not respond for that month. In the new design, the type of nonresponse adjustment applied depended on whether the hospital was considered a nonrespondent or partial respondent. A nonresponding hospital was one which failed to provide at least half of the expected number of discharges for at least half of the months for which it was inscope. In this case, weights of discharges from hospitals similar to the nonresponding hospital were inflated to account for discharges of the nonrespondent hospital. However, this adjustment was performed just once, after the close out of the survey for the year, instead of monthly as before.

For partially responding hospitals, one or both of two adjustments were made. If the hospital provided at least half, but not all, of the expected number of abstracts for a given month, the weights of the abstracts actually collected for that month were inflated to account for the missing abstracts. If fewer than half of the expected number of abstracts were provided, the weights of the abstracts provided were inflated by a factor of two, then a second adjustment was made to account for the excess nonresponse. In the second adjustment, the weights of the discharges in the hospital's respondent months were inflated by ratios that varied by category of first-listed ICD-9-CM diagnostic code. This adjustment ratio was based on the hospital's month(s) of nonresponse and the month-by-month distributions of first-listed diagnostic groups among discharges from hospitals which
responded for all twelve months. The ratio accounts for the seasonality in the occurrence of the first-listed diagnostic groups for annual statistics, but not for partial year estimates. As a result monthly and seasonal estimates may be skewed. While the effect is believed to be small, it is recommended that partial year estimates NOT be produced. In the 1996 NHDS, 76 percent of the 480 responding hospitals provided data for all twelve months, and 95 percent provided at least 9 months of data.

HOW TO USE THE DATA TAPE. The NHDS records are weighted to allow inflation to national or regional estimates. The weight applied to each record is found in tape location 21-25. To produce an estimate of the number of discharges, the weights for the desired records must be summed. To produce an estimate for number of days of care, the weight must be multiplied by the days of care (tape location 13-16) and these products are summed. Average length of stay data can be obtained by dividing the days of care by the number of discharges as calculated above.

Appendix D contains unweighted and weighted frequencies for selected variables on the data tape. These may be used as a cross-check when processing the data on the user's system.

DIAGNOSIS-RELATED GROUPS (DRGs). Many users of the NHDS data tapes have expressed an interest in converting the data to DRGs. This has been done using DRG Grouper Programs obtained from the Health Care Financing Administration. The DRGs and the DRG Grouper Programs were developed outside of the National Center for Health Statistics; any questions about DRGs, other than specific questions about how they relate to NHDS data, should be addressed elsewhere.

QUESTIONS. Questions concerning data on the tape should be directed to Maria Owings, Ph.D., Hospital Care Statistics Branch, Division of Health Care Statistics, National Center for Health Statistics, Presidential Building, Room 956, 6525 Belcrest Road, Hyattsville, Maryland 20782, (301)-436-7125.

## REFERENCES

(1) National Center for Health Statistics: Development of the design of the NCHS Hospital Discharge Survey, by W. R. Simmons. Vital and Health Statistics. PHS Pub. No. 1000, Series 2-No. 39. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1970.
(2) SMG Marketing Group, Inc. Hospital Market Database. Healthcare Information Specialists, 1342 North LaSalle Drive, Chicago, IL. 1987, April 1991, April 1994.
(3) Public Health Service and Health Care Financing Administration. International Classification of Diseases, 9th Revision, Clinical Modification. Washington, DC. U.S. Public Health Service. 4th edition. 1991.
(4) Office of the Secretary, Department of Health and Human Services: Health Information Policy Council: 1984 Revision of the Uniform Hospital Discharge Data Set. Federal Register, Volume 50, No. 147. July 31, 1985.
(5) Shah, Babubhai.V., Beth G. Barnwell, and Gayle S. Bieler. SUDAAN User's Manual: Software for Analysis of Correlated Data, Release 6.40. Research Triangle Institute: Research Triangle Park, N.C. 1996.

## II. TECHNICAL DESCRIPTION OF TAPE

Data Set Name ..... BG00.NHDS96.PU
Number of REELS or CARTRIDGES ..... $-1$
Number of Recording Tracks, REEL ..... -9
Number of Recording Tracks, CARTRIDGE ..... 18
Density for REEL (bpi) ..... -6,250
Density for CARTRIDGE (bpi) ..... 38,000
Language ..... EBCDIC
Parity ..... -Odd
Record Length ..... $-81$
Block Size ..... 16,200
Number of Records ..... 282,008

## III. RECORD FORMAT: Location and Coding of Data Elements

This section provides detailed information for each sampled record on the tape, with a description of each item included in the record. Data elements are arranged sequentially according to their physical location on the tape record. Unless otherwise stated in the Item Description, the data are derived from the abstract form or from automated sources. The SMG Hospital Market Tape and the hospital interview are alternate sources of data; some other items are computer generated.

Item Tape Number of
Number Location Positions Item Description and Codes

| 1 | 1-2 | 2 | Survey Year: | 96 |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 3 | 1 | Newborn Status: | $\begin{aligned} & 1=\text { Newborn } \\ & 2=\text { Not Newborn } \end{aligned}$ |
| 3 | 4 | 1 | Units for Age: | $\begin{aligned} & 1=\text { Years } \\ & 2=\text { Months } \\ & 3=\text { Days } \end{aligned}$ |
| 4 | 5-6 | 2 | Age in years, mon <br> If Un <br> If Un <br> If Un | or days:  <br> Years: $0-99^{*}$ <br> Months: $01-11$ <br> Days: $00-31$ |
| 5 | 7 | 1 | Sex: | $\begin{aligned} & 1=\text { Male } \\ & 2=\text { Female } \end{aligned}$ |
| 6 | 8 | 1 | Race: | $\begin{aligned} & 1=\text { White } \\ & 2=\text { Black } \\ & 3=\text { American Indian/Eskimo } \\ & 4=\text { Asian/Pacific Islander } \\ & 5=\text { Other } \\ & 9=\text { Not Stated } \end{aligned}$ |
| 7 | 9 | 1 | Marital Status: | $\begin{aligned} & 1=\text { Married } \\ & 2=\text { Single } \\ & 3=\text { Widowed } \\ & 4=\text { Divorced } \\ & 5=\text { Separated } \\ & 9=\text { Not Stated } \end{aligned}$ |

$8 \quad 10-11 \quad 2$ Month of Admission: 01-12: January to December 99: Missing

[^0]Item Tape Number of
Number Location Positions Item Description and Codes
9
12
Discharge Status
$1=$ Routine/Discharged Home
$2=$ Left Against Medical Advice
$3=$ Discharged/Transferred to
Short-Term Facility
$4=$ Discharged/Transferred to
Long-Term Care Institution
$5=$ Alive, Disposition Not Stated
$6=$ Dead
$9=$ Not Stated or Not Reported

10 13-16 4 Days of Care:
Use to calculate number of days of care; Values of zero generated by the computer from admission and discharge dates were changed to one. (Discharges for which dates of admission and discharge are the same are identified in Item Number 11.)
$19 \quad 1$
Number of Beds, Recode: $1=6-99$
$2=100-199$
$3=200-299$
$4=300-499$
$5=500$ and over

14
$20 \quad 1$
Hospital Ownership:
1 = Proprietary
2 = Government
3 = Nonprofit, including Church

|  | Tape |  |  |
| :---: | :---: | :---: | :---: |
| Number | Locatio | ositions | Item Description and Codes |
| 15 | 21-25 | 5 | Analysis Weight: Use to obtain weighted estimates |
| 16 | 26 | 1 | Principal Expected Source of Payment: $\begin{aligned} & 0=\text { No Charge } \\ & 1=\text { Workmen's Compensation } \\ & 2=\text { Medicare } \\ & 3=\text { Medicaid } \\ & 4=\text { Other Govt Payments, incl. Title V } \\ & 5=\text { Blue Cross } \\ & 6=\text { Other Private/Commercial Insurance } \\ & 7=\text { Self-Pay } \\ & 8=\text { Other } \\ & 9=\text { Not Stated } \end{aligned}$ |
| 17 | 27 | 1 | Secondary Expected Source of Payment: Same coding as item 16 |
| 18 | 28-32 | 5 | Diagnosis Code \#1 * |
| 19 | 33-37 | 5 | Diagnosis Code \#2 * |
| 20 | 38-42 | 5 | Diagnosis Code \#3 * |
| 21 | 43-47 | 5 | Diagnosis Code \#4 * |
| 22 | 48-52 | 5 | Diagnosis Code \#5 * |
| 23 | 53-57 | 5 | Diagnosis Code \#6 * |
| 24 | 58-62 | 5 | Diagnosis Code \#7 * |
| 25 | 63-66 | 4 | Procedure Code \#1 * |
| 26 | 67-70 | 4 | Procedure Code \#2 * |
| 27 | 71-74 | 4 | Procedure Code \#3 * |
| 28 | 75-78 | 4 | Procedure Code \#4 * |
| 29 | 79-81 | 3 | DRG, Grouper Version 13.0 |

$\qquad$

* Codes are in compliance with the International Classification of Diseases, 9th Revision, Clinical Modification, (ICD-9-CM). For diagnosis codes, there is an implied decimal between positions 3 and 4. For E-codes, the implied decimal is between the 4th and 5th position. For inapplicable 4th or 5th digits, a dash is inserted. For procedure codes, there is an implied decimal between positions 2 and 3. For inapplicable 3rd or 4th digits, a dash is inserted.

If you have any suggestions about how to better provide NHDS data by DRGs to NHDS data users, please write to Maria Owings, NCHS, Room 956, 6525 Belcrest Road, Hyattsville, MD 20782. Your assistance is greatly appreciated.

## APPENDIX A

## DEFINITION OF TERMS

Terms relating to hospitals and hospitalization
HOSPITALS: Short stay hospitals or hospitals whose specialty is general (medical or surgical), or children's general. Hospitals must have 6 beds or more staffed for patients use. Federal hospitals and hospital units of institutions are not included.

TYPE OF OWNERSHIP OF HOSPITAL: The type of organization that controls and operates the hospital. Hospitals are grouped as follows:

NOT FOR PROFIT: Hospitals operated by a church or another not for profit organization.

GOVERNMENT: Hospitals operated by State and local government.

PROPRIETARY: Hospitals operated by individuals, partnerships, or corporations for profit.
PATIENT: A person who is formally admitted to the inpatient service of a short: stay hospital for observation, care, diagnosis, or treatment, or by birth.

DISCHARGE: The formal release of a patient by a hospital; that is, the termination of a period of hospitalization by death or by disposition to place of residence, nursing home, or another hospital. The terms "discharges" and "patients discharged" are used synonymously.

DISCHARGE RATE: The ratio of the number of hospital discharges during the year to the number of persons in the civilian population on July 1 of that year.

DAYS OF CARE: The total number of patient days accumulated at time of discharge by patients discharged from short: stay hospitals during a year. A stay of less than 1 day (patient admission and discharge on the same day) is counted as 1 day in the summation of total days of care. For patients admitted and discharged on different days, the number of days of care is computed by counting all days from (and including) the date of admission to (but not including) the date of discharge.

RATE OF DAYS OF CARE: The ratio of the number of patient days accumulated at time of discharge to the number of persons in the civilian population on July 1 of that year.

AVERAGE LENGTH OF STAY: The total number of days of care accumulated at time of discharge by patients discharged during the year, divided by the number of patients discharged.

## TERMS RELATING TO DIAGNOSES AND PROCEDURES

DISCHARGE DIAGNOSIS: One or more diseases or injuries (or some factor that influences health status and contact with health services that is not itself a current illness or injury) listed by the attending physician on the medical record of a patient. In the NHDS, discharge (or final) diagnoses listed on the face sheet (summary sheet) of the medical record are transcribed in the order listed. Each sample discharge is assigned a maximum of seven five-digit codes according to ICD-9-CM (2).

PRINCIPAL DIAGNOSIS: The condition established after study to be chiefly responsible for occasioning the admission of the patient to the hospital for care.

FIRST-LISTED DIAGNOSIS: The coded diagnosis identified as the principal diagnosis or listed first on the face sheet of the medical record if the principal diagnosis cannot be identified. The number of first-listed diagnoses is equivalent to the number of discharges.

PROCEDURE: One or more surgical or nonsurgical operations, procedures, or special treatments listed by the physician on the medical record. In the NHDS, all terms listed on the face sheet (summary sheet) of the medical record under the caption "operation," "operative procedures," "operations and/or special treatment," and the like are transcribed in the order listed. A maximum of four procedures are coded.

RATE OF PROCEDURES: The ratio of the number of all-listed procedures during a year to the number of persons in the civilian population on July 1 of that year determines the rate of procedures.

## DEMOGRAPHIC TERMS

AGE: Refers to the age of the patient on the birthday prior to admission to the hospital inpatient service.

POPULATION: Civilian population is the resident population excluding members of the Armed Forces.

GEOGRAPHIC REGIONS: Hospitals are classified by location in one of the four geographic regions of the United States corresponding to those used by the U.S. Bureau of the Census:

## U.S. CENSUS REGIONS

| NORTHEAST | MIDWEST | SOUTH | WEST |
| :--- | :--- | :--- | :---: |
| Maine | Michigan | Delaware | Montana |
| New Hampshire | Ohio | Maryland | Idaho |
| Vermont | Illinois | District of Columbia | Wyoming |
| Massachusetts | Indiana | Virginia | Colorado |
| Rhode Island | Wisconsin | West Virginia | New Mexico |
| Connecticut | Minnesota | North Carolina | Arizona |
| New York | Iowa | South Carolina | Utah |
| New Jersey | Missouri | Georgia | Nevada |
| Pennsylvania | North Dakota | Florida | Washington |
|  | South Dakota | Kentucky | Oregon |
|  | Nebraska | Tennessee | California |
|  | Kansas | Alabama | Hawaii |
|  |  | Mississippi | Alaska |
|  |  | Arkansas |  |
|  |  | Louisiana |  |
|  |  | Oklahoma |  |
|  |  | Texas |  |

## APPENDIX B

The International Classification of Diseases, 9th Revision, Clinical Modification, which has been used for coding NHDS data since 1979, undergoes annual updating. Assignment of new diagnostic and procedure codes, fourth and fifth digit expansion of codes, as well as code deletions, are contained in addenda developed by the ICD-9-CM Coordination and Maintenance Committee and approved by the Director of NCHS and the Administrator of the Health Care Financing Administration. Addenda to the ICD-9-CM become effective on October 1 of the calendar year and have been released for 1986 through 1996.

As described earlier in this document, the 1996 NHDS involved two data collection modes: manual and abstract service. All data collected manually were coded using the third edition of the ICD-9-CM, which includes the addenda for 1986 through 1995. Data collected via abstract service were coded using two different ICD-9-CM revisions. For the first 9 months of 1996, the ICD-9-CM including the addendum of October 1, 1986-95 was used; for the last 3 months the October 1996 addendum was used. Therefore, data provided by automated systems for the last three months of 1996 was converted back to the code assignment under the October 1995 addendum. This was done in order to prevent NHDS data users from mistaking partial year estimates for annual estimates.

In order to assist users in data retrieval, a conversion table is provided that shows the date of introduction of each new code and the previously assigned code equivalent, which had been used for reporting the selected diagnosis or procedure prior to issuance of the new code.

## DIAGNOSIS CODES

|  | Effective | Previous code(s) assignment |
| :---: | :---: | :---: |
| Current code(s) assignment |  | Previous code(s) assignment |
| 005.81 | 1995 | 005.8 |
| 005.89 | 1995 | 005.8 |
| 008.00-008.09 | 1992 | 008.0 |
| 008.43-008.47 | 1992 | 008.49 |
| 008.61-008.69 | 1992 | 008.6 |
| 041.00-041.09 | 1992 | 041.0 |
| 041.10-041.19 | 1992 | 041.1 |
| 041.81-041.89 | 1992 | 041.8 |
| 041.86 | 1995 | 041.84 |
| 042 | 1994 | $\begin{array}{r} 042.0-042.2,042.9,043.0-043.3, \\ 043.9,044.0,044.9 \end{array}$ |
| 042.0-042.9 | 1986 | 279.19 |
| 043.0-043.9 | 1986 | 279.19 |
| 044.0-044.9 | 1986 | 279.19 |
| 070.20-070.21 | 1991 | 070.2 |
| 070.22 | 1994 | 070.20 |
| 070.23 | 1994 | 070.21 |
| 070.30-070.31 | 1991 | 070.3 |
| 070.32 | 1994 | 070.30 |
| 070.33 | 1994 | 070.31 |
| 070.41-070.49 | 1991 | 070.4 |
| 070.44 | 1994 | 070.41 |
| 070.51-070.59 | 1991 | 070.5 |
| 070.54 | 1994 | 070.51 |


| 077.98-077.99 | 1993 | 077.9 |
| :---: | :---: | :---: |
| 078.10-078.11,078.19 | 1993 | 078.1 |
| 078.88 | 1993 | 078.89 |
| 079.4 | 1993 | 079.8 |
| 079.50-079.53,079.59 | 1993 | 079.8 |
| 079.81 | 1995 | 079.89 |
| 079.88-079.89 | 1993 | 079.8 |
| 079.98-079.99 | 1993 | 079.9 |
| 088.81,088.89 | 1989 | 088.8 |
| 088.82 | 1993 | 088.89 |
| 099.40-099.49 | 1992 | 099.4 |
| 099.50-099.59 | 1992 | 078.89 |
| 112.84-112.85 | 1992 | 112.89 |
| 114.4-114.5 | 1993 | 114.3 |
| 176.0-176.9 | 1991 | 173.0-173.9 |
| 203.00 | 1991 | 203.0 |
| 203.01 | 1991 | V10.79 |
| 203.10 | 1991 | 203.1 |
| 203.11 | 1991 | V10.79 |
| 203.80 | 1991 | 203.8 |
| 203.81 | 1991 | V10.79 |
| 204.00 | 1991 | 204.0 |
| 204.01 | 1991 | V10.61 |
| 204.10 | 1991 | 204.1 |
| 204.11 | 1991 | V10.61 |
| 204.20 | 1991 | 204.2 |
| 204.21 | 1991 | V10.61 |
| 204.80 | 1991 | 204.8 |
| 204.81 | 1991 | V10.61 |


| 204.90 | 1991 | 204.9 |
| :---: | :---: | :---: |
| 204.91 | 1991 | V10.61 |
| 205.00 | 1991 | 205.0 |
| 205.01 | 1991 | V10.62 |
| 205.10 | 1991 | 205.1 |
| 205.11 | 1991 | V10.62 |
| 205.20 | 1991 | 205.2 |
| 205.21 | 1991 | V10.62 |
| 205.30 | 1991 | 205.3 |
| 205.31 | 1991 | V10.62 |
| 205.80 | 1991 | 205.8 |
| 205.81 | 1991 | V10.62 |
| 205.90 | 1991 | 205.9 |
| 205.91 | 1991 | V10.62 |
| 206.00 | 1991 | 206.0 |
| 206.01 | 1991 | V10.63 |
| 206.10 | 1991 | 206.1 |
| 206.11 | 1991 | V10.63 |
| 206.20 | 1991 | 206.2 |
| 206.21 | 1991 | V10.63 |
| 206.80 | 1991 | 206.8 |
| 206.81 | 1991 | V10.63 |
| 206.90 | 1991 | 206.9 |
| 206.91 | 1991 | V10.63 |
| 207.00 | 1991 | 207.0 |
| 207.01 | 1991 | V10.69 |
| 207.10 | 1991 | 207.1 |
| 207.11 | 1991 | V10.69 |
| 207.20 | 1991 | 207.2 |
| 207.21 | 1991 | V10.69 |
| 207.80 | 1991 | 207.8 |
| 207.81 | 1991 | V10.69 |
| 208.00 | 1991 | 208.0 |
| 208.01 | 1991 | V10.60 |
| 208.10 | 1991 | 208.1 |
| 208.11 | 1991 | V10.60 |
| 208.20 | 1991 | 208.2 |
| 208.21 | 1991 | V10.60 |
| 208.80 | 1991 | 208.8 |


| 208.81 | 1991 | V10.60 |
| :---: | :---: | :---: |
| 208.90 | 1991 | 208.9 |
| 208.91 | 1991 | V10.60 |
| 237.70-237.72 | 1990 | 237.7 |
| 250.02 | 1993 | 250.90 |
| 250.03 | 1993 | 250.91 |
| 250.12 | 1993 | 250.10 |
| 250.13 | 1993 | 250.11 |
| 250.22 | 1993 | 250.20 |
| 250.23 | 1993 | 250.21 |
| 250.32 | 1993 | 250.30 |
| 250.33 | 1993 | 250.31 |
| 250.42 | 1993 | 250.40 |
| 250.43 | 1993 | 250.41 |
| 250.52 | 1993 | 250.50 |
| 250.53 | 1993 | 250.51 |
| 250.62 | 1993 | 250.60 |
| 250.63 | 1993 | 250.61 |
| 250.72 | 1993 | 250.70 |
| 250.73 | 1993 | 250.71 |
| 250.82 | 1993 | 250.80 |
| 250.83 | 1993 | 250.81 |
| 250.92 | 1993 | 250.90 |
| 250.93 | 1993 | 250.91 |
| 278.00-278.01 | 1995 | 278.0 |
| 283.10-283.11,283.19 | 1993 | 283.1 |
| 305.1 | 1994 | $\begin{array}{r} 305.10,305.11,305.12, \\ 305.13 \text { (delete code) } \end{array}$ |
| 312.81-312.82,381.89 | 1994 | 312.8 |
| 320.81-320.89 | 1992 | 320.8 |
| 333.92-333.93 | 1994 | 333.99 |
| 337.20-337.22,337.29 | 1993 | 337.9 |


| 342.00-342.02 | 1994 | 342.0 |
| :---: | :---: | :---: |
| 342.10-342.12 | 1994 | 342.1 |
| 342.80-342.82 | 1994 | 342.9 |
| 342.90-342.92 | 1994 | 342.9 |
| 344.00-344.04,344.09 | 1994 | 344.0 |
| 344.30-344.32 | 1994 | 344.3 |
| 344.40-344.42 | 1994 | 344.4 |
| 344.81,344.89 | 1993 | 344.8 |
| 345.00-345.01 | 1989 | 345.0 |
| 345.10-345.11 | 1989 | 345.1 |
| 345.40-345.41 | 1989 | 345.4 |
| 345.50-345.51 | 1989 | 345.5 |
| 345.60-345.61 | 1989 | 345.6 |
| 345.70-345.71 | 1989 | 345.7 |
| 345.80-345.81 | 1989 | 345.8 |
| 345.90-345.91 | 1989 | 345.9 |
| 346.00-346.01 | 1992 | 346.0 |
| 346.10-346.11 | 1992 | 346.1 |
| 346.20-346.21 | 1992 | 346.2 |
| 346.80-346.81 | 1992 | 346.8 |
| 346.90-346.91 | 1992 | 346.9 |
| 355.71 | 1993 | 354.4 |
| 355.79 | 1993 | 355.7 |
| 371.82 | 1992 | 371.89 |
| 374.87 | 1990 | 374.89 |
| 403.00-403.01 | 1989 | 403.0 |
| 403.10-403.11 | 1989 | 403.1 |
| 403.90-403.91 | 1989 | 403.9 |
| 404.00-404.03 | 1989 | 404.0 |
| 404.10-404.13 | 1989 | 404.1 |
| 404.90-404.93 | 1989 | 404.9 |
| 410.00-410.02 | 1989 | 410.0 |
| 410.10-410.12 | 1989 | 410.1 |


| 410.20-410.22 | 1989 | 410.2 |
| :---: | :---: | :---: |
| 410.30-410.32 | 1989 | 410.3 |
| 410.40-410.42 | 1989 | 410.4 |
| 410.50-410.52 | 1989 | 410.5 |
| 410.60-410.62 | 1989 | 410.6 |
| 410.70-410.72 | 1989 | 410.7 |
| 410.80-410.82 | 1989 | 410.8 |
| 410.90-410.92 | 1989 | 410.9 |
| 411.81 | 1989 | 410.9 |
| 411.89 | 1989 | 411.8 |
| 414.00-414.01 | 1994 | 414.0 |
| 414.02-414.03 | 1994 | 996.03 |
| 415.11 | 1995 | 997.3 \& 415.1 |
| 415.19 | 1995 | 415.1 |
| 429.71 | 1989 | 410.0-410.9 |
| 429.79 | 1989 | 410.0-410.9 |
| 433.00-433.01 | 1993 | 433.0 |
| 433.10-433.11 | 1993 | 433.1 |
| 433.20-433.21 | 1993 | 433.2 |
| 433.30-433.31 | 1993 | 433.3 |
| 433.80-433.81 | 1993 | 433.8 |
| 433.90-433.91 | 1993 | 433.9 |
| 434.00-434.01 | 1993 | 434.0 |
| 434.10-434.11 | 1993 | 434.1 |
| 434.90-434.91 | 1993 | 434.9 |
| 435.3 | 1995 | 435.0 \& 435.1 |
| 437.7 | 1992 | 780.9 |
| 440.20-440.22 | 1992 | 440.2 |
| 440.23 | 1993 | $\begin{aligned} & 440.20 \& 707.1 \\ & \text { or } 707.8 \text { or } 707.9 \end{aligned}$ |
| 440.24 | 1993 | 440.20 \& 785.4 |
| 440.29 | 1993 | 440.20 |


| 440.30-440.32 | 1994 | 996.1 |
| :---: | :---: | :---: |
| 441.00-441.03 | 1994 | 441.0 |
| 441.6 | 1993 | 441.1 \& 441.3 |
| 441.7 | 1993 | 441.2 \& 441.4 |
| 446.20-446.21,446.29 | 1990 | 446.2 |
| 451.82-451.84 | 1993 | 451.89 |
| 458.2 | 1995 | 997.9 \& 458.9 |
| 482.30-482.39 | 1992 | 482.3 |
| 482.81-482.89 | 1992 | 482.8 |
| 483.0 | 1992 | 483 |
| 483.8 | 1992 | 483 |
| 491.20-491.21 | 1991 | 491.2 |
| 493.20 | 1989 | 493.90 |
| 493.21 | 1989 | 493.91 |
| 512.1 | 1994 | 997.3 |
| 518.81 | 1987 | 799.1 |
| 518.82-518.89 | 1987 | 518.8 |
| 524.00-524.09 | 1992 | 524.0 |
| 524.10-524.19 | 1992 | 524.1 |
| 524.60-524.69 | 1991 | 524.6 |
| 524.70-524.79 | 1992 | 524.8 |
| 530.10-530.11, 530.19 | 1993 | 530.1 |
| 530.81 | 1993 | 530.1 |
| 530.82-530.84, 530.89 | 1993 | 530.8 |
| 535.00-535.01 | 1991 | 535.0 |
| 535.10-535.11 | 1991 | 535.1 |
| 535.20-535.21 | 1991 | 535.2 |
| 535.30-535.31 | 1991 | 535.3 |


| 535.40-535.41 | 1991 | 535.4 |
| :---: | :---: | :---: |
| 535.50-535.51 | 1991 | 535.5 |
| 535.60-535.61 | 1991 | 535.6 |
| 536.3 | 1994 | 536.8 |
| 537.82 | 1990 | 537.89 |
| 537.83 | 1991 | 537.82 |
| 556.0-556.6 | 1994 | 556 |
| 556.8-556.9 | 1994 | 556 |
| 562.02 | 1991 | 562.00 |
| 562.03 | 1991 | 562.01 |
| 562.12 | 1991 | 562.10 |
| 562.13 | 1991 | 562.11 |
| 569.60-569.61 | 1995 | 569.6 |
| 569.69 | 1995 | 569.6 |
| 569.84 | 1990 | 557.1 |
| 569.85 | 1991 | 569.84 |
| 593.70-593.73 | 1994 | 593.7 |
| 596.51-596.53 | 1992 | 596.5 |
| 596.54 | 1992 | 344.61 |
| 596.55-596.59 | 1992 | 596.5 |
| 599.81-599.89 | 1992 | 599.8 |
| 645.0 | 1991 | 645 |
| 651.30-651.31,651.33 | 1989 | 651.00-651.01,651.03 |
| 651.40-651.41,651.43 | 1989 | 651.10-651.11,651.13 |
| 651.50-651.51,651.53 | 1989 | 651.20-651.21,651.23 |
| 651.60-651.61,651.63 | 1989 | 651.80-651.81,651.83 |
| 654.20-654.21,654.23 | 1990 | 654.2,654.9 |
| 654.90-651.94 | 1990 | 654.2,654.9 |
| 657.0 | 1991 | 657 |


| 659.60,659.61,659.63 | 1992 | 659.80-659.81,659.83 |
| :---: | :---: | :---: |
| 665.10,665.11 | 1992 <br> Note: <br> has subclas | 665.10,665.11,665.12,665.14 the for the subcategory, 665.1 anged, making the fifth-digit on, 665.12 and 665.14 invalid. |
| 670.0 | 1991 | 670 |
| 672.0 | 1991 | 672 |
| 677 | 1994 | There was no previous code assignment for this code. |
| 690.10 | 1995 | 690 |
| 690.11 | 1995 | 691.8 \& 704.8 |
| 690.12 | 1995 | 691.8 |
| 690.18 | 1995 | 690 |
| 690.8 | 1995 | 690 |
| 692.72-692.74 | 1992 | 692.79 |
| 692.82-692.83 | 1992 | 692.89 |
| 702.0-702.8 | 1991 | 702 |
| 702.11,702.19 | 1994 | 702.1 |
| 704.02 | 1993 | 704.09 |
| 709.00-709.01,709.09 | 1994 | 709.0 |
| 710.5 | 1992 | 288.3,729.1 |
| 728.86 | 1995 | 729.4 |
| 733.10-733.16, 733.19 | 1993 | 733.1 |
| 738.10-738.19 | 1992 | 738.1 |
| 747.60-747.64, 747.69 | 1993 | 747.6 |
| 747.82 | 1993 | 747.89 |
| 753.10-753.17,753.19 | 1990 | 753.1 |


| 759.81-759.89 | 1989 | 759.8 |
| :---: | :---: | :---: |
| 759.83 | 1994 | 759.89 |
| 760.75 | 1991 | 760.79 |
| 760.76 | 1994 | 760.79 |
| 764.00-764.09 | 1988 | 764.0 |
| 764.10-764.19 | 1988 | 764.1 |
| 764.20-764.29 | 1988 | 764.2 |
| 764.90-764.99 | 1988 | 764.9 |
| 765.00-765.09 | 1988 | 765.0 |
| 765.10-765.19 | 1988 | 765.1 |
| 780.01-780.09 | 1992 | 780.0 |
| 780.03 | 1993 | 780.01 |
| 780.57 | 1992 | 780.51,780.53 |
| 781.8 | 1994 | 781.9 |
| 787.01-787.03 | 1994 | 787.0 |
| 787.91 | 1995 | 558.9 |
| 787.99 | 1995 | 787.9 |
| 788.20-788.21, 788.29 | 1993 | 788.2 |
| 788.30-788.39 | 1992 | 788.3 |
| 788.41-788.43 | 1993 | 788.4 |
| 788.61-788.62, 788.69 | 1993 | 788.6 |
| 789.00-789.07, 789.09 | 1994 | 789.0 |
| 789.30-789.37, 789.39 | 1994 | 789.3 |
| 789.40-789.47, 789.49 | 1994 | 789.4 |
| 789.60-789.67, 789.69 | 1994 | 789.6 |
| 790.91 | 1993 | 790.9 |
| 790.92 | 1993 | 286.9 |
| 790.93, 790.99 | 1993 | 790.9 |


| 795.71 | 1994 | 795.8 (delete code) |
| :---: | :---: | :---: |
| 795.79 | 1994 | 795.7 |
| 795.8 | 1986 | 795.7 |
| 864.05 | 1992 | 864.09 |
| 864.15 | 1992 | 864.19 |
| 909.5 | 1994 | 909.9 |
| 925.1-925.2 | 1993 | 925 |
| 989.81-989.84 | 1995 | 989.8 |
| 989.89 | 1995 | 989.8 |
| 995.60-995.69 | 1993 | 995.0 |
| 996.04 | 1994 | 996.09 |
| 996.51-996.59 | 1987 | 996.5 |
| 996.60-996.69 | 1989 | 996.6 |
| 996.70-996.79 | 1989 | 996.7 |
| 996.80-996.89 | 1987 | 996.8 |
| 996.85 | 1990 | 999.8 |
| 997.00-997.01 | 1995 | 997.0 |
| 997.02 | 1995 |  |
|  |  | 430-434, 436 |
| 997.09 | 1995 | 997.0 |
| 997.91 | 1995 | 997.9 |
| 997.99 | 1995 | 997.9 |
| 998.81-998.82, 998.89 | 1994 | 998.8 |
| V03.81-V03.82, V03.89 | 1994 | V03.8 |
| V05.3-V05.4 | 1993 | V05.8 |
| V06.5-V06.6 | 1994 | V06.8 |
| V07.31,V07.39 | 1994 | V07.3 |


| V07.4 | 1992 | V07.8 |
| :---: | :---: | :---: |
| V08 | 1994 | 044.9, 795.8 (delete code) |
| V09.0-V09.91 | 1993 | There were no previous code assignments for these codes. |
| V12.00-V12.03, V12.09 | 1994 | V12.0 |
| V12.50-V12.52 | 1995 | V12.5 |
| V12.59 | 1995 | V12.5 |
| V12.70-V12.72, V12.79 | 1994 | V12.7 |
| V13.00-V13.01, V13.09 | 1994 | V13.0 |
| V15.82 | 1994 | 305.13 (delete code) |
| V15.84-V15.86 | 1995 | V15.89 |
| V25.43 | 1992 | V25.49 |
| V25.5 | 1992 | V25.8 |
| V29.0-V29.8 | 1992 | V71.8 |
| V29.9 | 1992 | V71.9 |
| V30.00-V30.01 | 1989 | V30.0 |
| V31.00-V31.01 | 1989 | V31.0 |
| V32.00-V32.01 | 1989 | V32.0 |
| V33.00-V33.01 | 1989 | V33.0 |
| V34.00-V34.01 | 1989 | V34.0 |
| V35.00-V35.01 | 1989 | V35.0 |
| V36.00-V36.01 | 1989 | V36.0 |
| V37.00-V37.01 | 1989 | V37.0 |
| V39.00-V39.01 | 1989 | V39.0 |
| V43.60-V43.66, V43.69 | 1994 | V43.6 |
| V43.81-V43.82 | 1995 | V43.8 |
| V43.89 | 1995 | V43.8 |
| V45.00 | 1994 | V45.89 |


| V45.01 | 1994 | V45.0 |
| :---: | :---: | :---: |
| V45.02, V45.09 | 1994 | V45.89 |
| V45.51 | 1994 | V45.5 |
| V45.52, V45.59 | 1994 | V45.89 |
| V45.82 | 1994 | V45.89 |
| V45.83 | 1995 | V45.89 |
| V49.60-V49.67 | 1994 | V49.5 |
| V49.70-V49.77 | 1994 | V49.5 |
| V50.41-V50.42, V50.49 | 1994 | V50.8 |
| V53.31 | 1994 | V53.3 |
| V53.32, V53.39 | 1994 | V53.9 |
| V56.1 | 1995 | V58.89 |
| V57.21-V57.22 | 1994 | V57.2 |
| V58.41, V58.49 | 1994 | V58.4 |
| V58.61 | 1995 | V67.51 |
| V58.69 | 1995 | V67.51 |
| V58.81, V58.89 | 1994 | V58.8 |
| V58.82 | 1995 | V58.89 |
| V59.01-V59.02 | 1995 | V59.0 |
| V59.09 | 1995 | V59.0 |
| V59.6 | 1995 | V59.8 |
| V65.40-V65.45, V65.49 | 1994 | V65.4 |
| V69.0-V69.3 | 1994 | No previous code assignments for these codes. |
| V69.8-V69.9 | 1994 | No previous code assignments for these codes. |
| V72.81-V72.85 | 1993 | V72.8 |


| V73.88-V73.89 | 1993 | V73.8 |
| :--- | :---: | :---: |
| V73.98-V73.99 | 1993 | V73.9 |
|  |  |  |
| E854.8 | 1995 | E858.8 |
|  |  |  |
| E869.4 | 1994 | E869.8 |
|  |  |  |
| E880.1 | 1995 | E884.9 |
| E884.3-E884.4 | 1995 | E884.2 |
| E884.5-E884.6 | 1995 |  |
|  |  | E9064.3 |
| E906.5 | 1995 | E908 |
| E908.0-E908.4 | 1995 | E908 |
| E908.8-E908.9 | 1995 | E909 |
| E909.0-E909.4 | 1995 | E909 |
| E909.8-E909.9 | 1995 | E920.4 |
| E920.5 | 1995 | E924.0 |
| E924.2 | 1995 | E968.8 |
| E968.5 | 1995 |  |

Procedure codes

| Current code(s) assignment | Effective <br> October 1 | Previous code(s) assignment |
| :---: | :---: | :---: |
| 02.96 | 1992 | 89.19 |
| 03.90 | 1987 | 03.99 (Insertion of Catheter) |
| 05.25 | 1995 | 39.7 (delete) |
| 11.75 | 1989 | 11.79 |
| 11.76 | 1989 | 11.62 |
| 20.96-20.98 | 1986 | 20.95 |
| 22.12 | 1988 | 22.11 |
| 26.12 | 1988 | 26.11 |
| 29.31 | 1991 | 83.02 |
| 29.32 | 1991 | 29.3 |
| 29.33 | 1991 | 29.3 |
| 29.39 | 1991 | 29.3 |
| 31.45 | 1988 | 31.43-31.44 |
| 31.95 | 1989 | 31.75 |
| 32.01 | 1989 | 32.0 |
| 32.09 | 1989 | 32.0 |
| 32.22 | 1995 | 32.29, 32.9 |
| 32.28 | 1989 | 32.29 |
| 33.27 | 1987 | $33.22+33.27$ |
| 33.28 | 1987 | 33.27 |
| 33.29 | 1987 | 33.28-33.29 |
| 33.50 | 1995 | 33.5 |
| 33.51 | 1995 | 33.5 |
| 33.52 | 1995 | 33.5 |


| 33.6 | 1990 |  | $33.5+37.5$ |
| :---: | :---: | :---: | :---: |
| 34.05 | 1994 |  | 34.99 |
| 35.84 | 1988 |  | 35.82 |
| 35.96 | 1986 |  | 35.03 |
| 36.00-36.03 | 1986 |  | 36.0 |
| 36.04 | 1986 |  | 39.97 |
| 36.05 | 1987 |  | 36.01 |
| 36.05 | 1986 | 36. | (1), 36.02 |
| 36.06 | 1995 | 36.01, 36.02, | 36.03, 36.05 |
| 36.09 | 1986 |  | 36.0 |
| 36.09 | 1991 | 36.00 | ode deleted) |
| 37.26-37.27 | 1988 |  | 37.29 |
| 37.34 | 1988 |  | 37.33 |
| 37.65 | 1995 |  | 37.62 |
| 37.66 | 1995 |  | 37.62 |
| 37.70 (Leads only) | 1987 | (Leads/Device) | 37.70 |
| 37.71-37.72 (Leads only) | 1987 | (Leads/Device) | 37.74 |
| 37.73 (Leads only) | 1987 | (Leads/Device) | 37.73 |
| 37.74 (Leads only) | 1987 | (Leads/Device) | 37.76 |
| 37.75 (Leads only) | 1987 | (Leads/Device) | 37.89 |
| 37.76 (Leads only) | 1987 | (Leads/Device) | 37.81 |
| 37.77 (Leads only) | 1987 | (Leads/Device) | 37.83-37.84 |
| 37.78 | 1987 |  | 37.71-37.72 |
| 37.79 | 1987 |  | 86.09 |
| 37.80-37.87 | 1992 |  | 89.49 (2) |
| 37.80 (Device only) | 1987 | (Leads/Device) | 37.73-37.77 |
| 37.81 (Device only) | 1987 | (Leads/Device) | 37.73-37.77 |
| 37.82 (Device only) | 1987 | (Leads/Device) | 37.73-37.77 |
| 37.83 (Device only) | 1987 | (Leads/Device) | 37.73-37.77 |
| 37.85-37.87 | 1987 |  | 37.85 |
| 37.89 | 1987 |  | 37.86+37.89 |
| 37.94-37.98 | 1986 |  | 37.99 |
| 38.22 | 1986 |  | 38.29 |


| 38.44 (Abdominal Aorta Only) | 1986 | 38.44 (Entire Aorta) |
| :---: | :---: | :---: |
| 38.45 (Thoracic Aorta Added) | 1986 | 38.44-38.45 |
| 38.95 | 1989 | 38.93 |
| 39.28 | 1991 | 39.29 |
| 39.50 | 1995 | 39.59 |
| 39.65 | 1988 | 39.61 |
| 39.66 | 1990 | 39.65 |
| 41.00-41.03 | 1988 | 41.0 |
| 41.04 | 1994 | 99.79 |
| 42.25 | 1988 | 42.24 |
| 42.33 | 1989 | 42.32, 42.39 |
| 42.33 | 1990 | 42.91 |
| 43.11 | 1989 | 43.1 |
| 43.19 | 1989 | 43.1, 43.2 |
| 43.41 | 1989 | 43.41,43.49 |
| 44.21 | 1986 | 44.2 |
| 44.22 | 1986 | 44.99 |
| 44.29 | 1986 | 44.2 |
| 44.43 | 1989 | 43.49,45.32 |
| 44.44 | 1989 | 38.86 |
| 44.49 | 1989 | 43.0 |
| 44.93-44.94 | 1986 | 44.99 |
| 45.16 | 1988 | 45.14 (45.15 before 1987) |
| 45.30 | 1989 | 45.31,45.32 |
| 45.42 | 1988 | 45.41 |
| 45.43 | 1989 | 45.49 |
| 45.75 (Hartmann Resection Added) | 1988 | 48.66 (code deleted) |
| 45.95 | 1987 | 45.93 |
| 46.13 | 1992 | 46.12 (code deleted) |
| 46.32 | 1989 | 46.39 |
| 46.85 | 1989 | 46.99 |


| 48.36 | 1995 | 45.42 |
| :---: | :---: | :---: |
| 49.31 | 1989 | 49.3 |
| 49.39 | 1989 | 49.3 |
| 51.10 | 1989 | 51.97 |
| 51.11 | 1989 | 51.11,51.97 |
| 51.14 | 1989 | 51.12 |
| 51.15 | 1989 | 51.97 |
| 51.22 | 1991 | 51.21 (code deleted),51.22 |
| 51.23 | 1991 | 51.22 |
| 51.64 | 1989 | 51.69 |
| 51.84-51.88 | 1989 | 51.97 |
| 51.97 | 1986 | 52.91,51.99, or 51.82 |
| 51.98 | 1986 | 51.99 |
| 52.13 | 1989 | 51.97,52.91 |
| 52.14 | 1989 | 52.11 |
| 52.21 | 1989 | 52.2 |
| 52.22 | 1989 | 52.2 |
| 52.93 | 1989 | $52.93+52.91$ |
| 52.94 | 1989 | 52.09 |
| 52.97 | 1989 | 52.91 |
| 52.98 | 1989 | 52.91 |
| 52.99 | 1989 | 52.93,52.94,52.99 |
| 54.24 | 1987 | 54.23 |
| 54.25 | 1993 | 54.98 |
| 55.03-55.04 | 1986 | 55.02 |
| 56.33-56.34 | 1987 | 56.33 |
| 56.35 | 1987 | 45.12 |
| 57.17-57.18 | 1989 | 57.21 |
| 57.22 | 1989 | 57.22,57.82 |
| 58.31 | 1990 | 58.3 |
| 58.39 | 1990 | 58.3 |
| 58.93 | 1986 | 57.99 |


| 59.72 | 1995 | 59.79 |
| :---: | :---: | :---: |
| 59.96 | 1986 | 59.95 |
| 60.21 | 1995 | 60.2 |
| 60.29 | 1995 | 60.2 |
| 60.95 | 1991 | 60.99 |
| 64.97 | 1986 | 64.95 |
| 66.01 | 1992 | 66.0 |
| 66.02 | 1992 | 66.73 |
| 68.15 | 1987 | 68.14 |
| 68.16 | 1987 | 68.13 |
| 68.9 | 1992 | 68.4 |
| 74.3 | 1992 | 69.11 (code deleted) |
| 77.56 | 1989 | 77.89,78.49,81.18 |
| 77.57 | 1989 | 77.89,80.48,81.18,83.85 |
| 77.58 | 1989 | 77.59,81.18 |
| 78.10 | 1991 | 78.40 |
| 78.11 | 1991 | 78.41 |
| 78.12 | 1991 | 78.42 |
| 78.13 | 1991 | 78.43 |
| 78.14 | 1991 | 78.44 |
| 78.15 | 1991 | 78.45 |
| 78.16 | 1991 | 78.46 |
| 78.17 | 1991 | 78.47 |
| 78.18 | 1991 | 78.48 |
| 78.19 | 1991 | 78.49 |
| 78.20 | 1991 | 78.10,78.20,78.30 |
| 78.21 | 1991 | 78.11,78.31 |
| 78.22 | 1991 | 78.12,78.22,78.32 |
| 78.23 | 1991 | 78.13,78.23,78.33 |
| 78.24 | 1991 | 78.14,78.34 |
| 78.25 | 1991 | 78.15,78.25,78.35 |
| 78.27 | 1991 | 78.17,78.27,78.37 |
| 78.28 | 1991 | 78.18,78.38 |
| 78.29 | 1991 | 78.11,78.16,78.19,78.29,78.39 |

78.39
78.90 (3)
78.91 (3)
78.92 (3)
78.93 (3)
78.94 (3)
78.95 (3)
78.96 (3)
78.97 (3)
78.98 (3)
78.99 (3)
80.50-80.59
81.03
81.04-81.05
81.06-81.07
81.08
81.09
81.40
81.51
81.52
81.53
81.54-81.55
81.56
81.57
81.59
81.72
81.73-81.74
81.75
81.79
81.80
81.97
85.95
85.96
86.06
86.07
86.27
86.28

1991

1987
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78.31
78.40
78.41
78.42
78.43
78.44
78.45
78.46
78.47
78.48
78.49
80.5
81.02
81.03,81.04,81.05
81.06,81.07
81.06,81.07,81.08
81.08
81.69
81.51,81.59
81.61,81.62,81.63,81.64
81.51,81.59,81.61,81.62,
81.63,81.64
81.41
81.48
81.31,81.39
81.39
81.79
81.86
81.87
81.79,81.87
81.81
81.59
85.99
85.99
86.09
86.09
86.22-86.23
86.22

| 86.93 | 1987 | 86.89 |
| :---: | :---: | :---: |
| 88.90 | 1986 | 88.39 |
| 88.91 | 1986 | 89.15 |
| 88.92 | 1986 | 89.39 |
| 88.93 | 1986 | 89.15 |
| 88.94 | 1986 | 89.39 |
| 88.95 | 1986 | 89.29 |
| 88.97 | 1989 | 88.99 |
| 88.98 | 1989 | 88.90 |
| 88.99 | 1986 | 89.39 |
| 89.10 | 1989 | 89.15 |
| 89.17-89.18 | 1988 | 89.15 |
| 89.19 | 1989 | 89.15 |
| 89.50 | 1991 | 89.54 |
| 92.3 | 1995 | 01.59, 04.07, 07.63, 07.68 |
| 93.90 | 1988 | 93.92 |
| 94.61-94.69 | 1989 | 94.25 |
| 96.6 | 1986 | 96.35 |
| 96.70 | 1991 | 93.92 (code deleted) |
| 96.71 | 1991 | 93.92 (code deleted) |
| 96.72 | 1991 | 93.92 (code deleted) |
| 97.05 | 1989 | 51.97 |
| 98.51-98.52 | 1989 | 59.96 (code deleted) |
| 98.59 | 1989 | 59.96 (code deleted) |
| 99.00 | 1995 | 99.02 |
| 99.15 | 1986 | 99.29 |
| 99.28 | 1994 | 99.25 |
| 99.71-99.79 (4) | 1988 | 99.70 |
| 99.85 | 1987 | 93.35 |
| 99.86 | 1987 | 93.39 |
| 99.88 | 1988 | 99.83 |

(1) Before October 1986 contents of current code 36.05 would have been assigned to 36.0.
(2) Code 89.49 deleted; this procedure is included in the code for pacemaker insertion/replacement.
(3) Codes 78.90-78.99 were retitled as "Insertion of bone growth stimulator" in October 1987; the previous contents of codes 78.90-78.99 were reassigned to codes 78.40-78.49.
(4) Codes 99.71-99.79 were deleted in October 1987; their contents were not transferred elsewhere. In the October 1988 revision, codes 99.71-99.79 were reclassified as "Therapeutic apheresis."

## APPENDIX C

National Hospital Discharge Survey statistics are used to produce rates of hospital utilization for the civilian population of the United States. In order to accomplish this, estimates of the U.S. civilian resident population for 1996 are provided with this documentation. On a separate diskette accompanying this documentation, are three LOTUS files containing estimates provided by the U. S. Bureau of the Census. These estimates are consistent with the population estimates published in Current Population Reports, Series P-25. Note that these estimates have NOT been adjusted for undercounting of certain special populations.

The file names and their contents are as follows:

TABLE_A.WK4 --- Civilian Population of the United States, by Sex, Age Group, Geographic Region and Race: July 1, 1996

TABLE_B.WK4 --- Civilian Population of the United States, July 1, 1996: Estimates by Age Group, Sex, and Region

TABLE_C.WK4 --- Civilian Population of the United States, July 1, 1996:
Estimates by Age, Sex, and Race
Since 1981, NCHS has used the civilian resident population to calculate rates of hospital utilization. The civilian resident population was determined to be more appropriate than the civilian noninstitutional population because persons in institutions, for example nursing home patients, are hospitalized when necessary.

## APPENDIX D

BASIC DATA FOR NEWBORN INFANTS, Non-Medical Variables

## UNWEIGHTED N WEIGHTED ESTIMATE

| SURVEY YEAR |  |  |
| :---: | :---: | :---: |
| 96 | 31,706 | 3,925,871 |
| UNITS FOR AGE |  |  |
| 1 = Years | 0 | 0 |
| $2=$ Months | 0 | 0 |
| 3 = Days | 31,706 | 3,925,871 |
| AGE |  |  |
| $1=$ Under 15 | 31,706 | 3,925,871 |
| $2=15-44$ | 0 | 0 |
| $3=45-64$ | 0 | 0 |
| $4=65$ and Up | 0 | 0 |
| SEX |  |  |
| 1 = Male | 16,195 | 1,998,799 |
| 2 = Female | 15,511 | 1,927,072 |
| RACE |  |  |
| $1=$ White | 16,633 | 2,251,570 |
| $2=$ Black | 4,223 | 502,456 |
| 3 = AmInd/Eskimo | 135 | 19,784 |
| $4=$ Asian/PacIsland | 896 | 115,776 |
| 5 = Other | 1,532 | 147,183 |
| 9 = Race Not Stated | 8,287 | 889,102 |
| MARITAL STATUS |  |  |
| 1 = Married | 1 | 369 |
| $2=$ Single | 10,988 | 2,554,106 |
| 3 = Widowed | 0 | 0 |
| 4 = Divorced | 0 | 0 |
| 5 = Separated | 0 | 0 |
| $9=$ Not Stated | 20,717 | 1,371,396 |
| DISCHARGE STATUS |  |  |
| 1 = Routine/Home | 30,340 | 3,701,550 |
| $2=$ Left Ag Medical Advice | 7 | 1,585 |
| 3 = Short Term Facility | 366 | 57,244 |
| 4 = Long Term Care | 32 | 2,598 |
| 5 = Alive, Not Stated | 661 | 97,274 |
| 6 = Dead | 116 | 13,133 |
| 9 = Status Not Stated | 184 | 52,487 |
| LENGTH OF STAY FLAG |  |  |

$0=$ Less than 1 day
$1=1$ day or more
31,136
73,761
3,852,110

## UNWEIGHTED N WEIGHTED ESTIMATE

## REGION

| $1=$ NorthEast | 5,974 | 645,439 |
| :--- | ---: | ---: |
| $2=$ MidWest | 9,238 | 825,932 |
| $3=$ South | 10,365 | $1,403,164$ |
| $4=$ West | 6,129 | $1,051,336$ |
| BEDSIZE GROUP |  |  |
| $1=6-99$ | 3,244 | 714,697 |
| $2=100-199$ | 6,317 | $1,019,273$ |
| $3=200-299$ | 6,751 | 653,068 |
| $4=300-499$ | 10,707 | $1,103,553$ |
| $5=500$ and Up | 4,687 | 435,280 |

HOSPITAL OWNERSHIP GROUP
$1=$ Proprietary $\quad 1,894 \quad 478,007$
2 Government $\quad 2,971 \quad 467,346$
3 = Nonprofit 26,841 2,980,518
EXPECTED SOURCE OF PAYMENT, PRINCIPAL
$0=$ No Charge
99
14,204
$1=$ Workers Comp
8
686
$2=$ Medicare
63
13,302
3 = Medicaid
4 = Other Govt Pymt
5 = Blue Cross
6 = Other Priv/Comm
9,585
314
3,119
1,325,
67,798
345,013
7 = Self-Pay
13,286
1,629,515
$8=$ Other
$9=$ Pymt Not Stated
ADMISSION MONTH
01 = January
2,334
298,785
$02=$ February
2,293
296,588
$03=$ March
2,464
322,570
$04=$ April
2,353
297,840
$05=$ May
2,464
320,197
06 = June
2,377
299,926
07 = July
2,419
321,316
$08=$ August
$09=$ September
2,415
333,763
$10=$ October
2,315
307,838
2,227
298,605

| $11=$ November | 1,993 | 268,221 |
| :--- | ---: | :--- |
| $12=$ December | 2,086 | 294,488 |
| $99=$ Missing | 3,966 | 265,734 |

BASIC DATA FOR NON-NEWBORNS, Non-Medical Variables

## UNWEIGHTED N WEIGHTED ESTIMATE

SURVEY YEAR

96
1 = Years
2 = Months
3 = Days
AGE
Under 15
15-44
45-64
65 and Up
SEX
1 = Male
$2=$ Female
RACE
$1=$ White
$2=$ Black
3 = AmInd/Eskimo
$4=$ Asian/PacIsland
$5=$ Other
$9=$ Race Not Stated
MARITAL STATUS
1 = Married
2 = Single
$3=$ Widowed
4 = Divorced
5 = Separated
$9=$ Not Stated
DISCHARGE STATUS
1 = Routine/Home
$2=$ Left Ag Medical Advice
3 = Short Term Facility
4 = Long Term Care

250,302

242,438
5,473
2,391

23,880
85,034
50,988
90,400

99,772
150,530

144,087
35,544
817
3,478
9,642
56,734

39,800
23,627
13,033
4,875
981
167,986

201,038
2,102
7,260
17,676

30,544,614

29,808,419
500,960
235,235

2,206,856
10,325,208
6,294,238
11,718,312

12,109,749
18,434,865

19,738,155
3,779,331
123,921
488,751
738,556
5,675,900

9,266,843
5,308,794
3,096,853
1,154,053
185,149
11,532,922
24,325,346
233,885
1,227,320
2,169,884

| $5=$ Alive, Not Stated | 13,993 | $1,411,150$ |
| :--- | ---: | ---: |
| $6=$ Dead | 6,713 | 814,523 |
| $9=$ Status Not Stated | 1,520 | 362,506 |
| LENGTH OF STAY FLAG |  |  |
| $0=$ Less than 1 day | 5,689 | 812,199 |
| $1=1$ day or more | 244,613 | $29,732,415$ |

## UNWEIGHTED N WEIGHTED ESTIMATE

## REGION

| $1=$ NorthEast | 58,493 | $6,665,339$ |
| :--- | ---: | ---: |
| $2=$ MidWest | 74,864 | $7,106,564$ |
| 3 = South | 83,710 | $11,085,190$ |
| $4=$ West | 33,235 | $5,687,521$ |

BEDSIZE GROUP
$1=6-99 \quad 28,457$
5,957,110
$2=100-199$
48,312
7,639,989
$3=200-299$
49,943
5,533,746
$4=300-499$
88,460
7,927,924
$5=500$ and Up
35,130
3,485,845
HOSPITAL OWNERSHIP GROUP
1 = Proprietary $\quad 17,296 \quad 3,355,094$
$2=$ Government 25,063
3,628,276
3 = Nonprofit 207,943
23,561,244
EXPECTED SOURCE OF PAYMENT, PRINCIPAL
$0=$ No Charge $569 \quad 94,080$
1 = Workers Comp $\quad 1,809 \quad 224,344$
$2=$ Medicare $\quad 89,834$
11,647,252
$3=$ Medicaid $\quad 36,302 \quad 4,409,872$
4 = Other Govt Pymt
2,588
459,807
$5=$ Blue Cross
19,981
$6=$ Other Priv/Comm 67,970
2,267,748
8,453,149
7 = Self-Pay
$8=$ Other
$9=$ Pymt Not Stated
11,829
1,421,566

ADMISSION MONTH
01 = January
19,217
1,021,754
545,042
$02=$ February
18,471
2,536,400
$03=$ March
18,941
2,398,878
$04=$ April
18,380
2,491,541
$05=$ May
18,426
2,420,737
$06=$ June
17,452
2,414,590
2,285,677

| 07 = July | 17,594 | $2,336,233$ |
| :--- | :---: | :---: |
| $08=$ August | 16,979 | $2,264,541$ |
| $09=$ September | 16,417 | $2,225,512$ |
| $10=$ October | 16,878 | $2,303,351$ |
| $11=$ November | 15,973 | $2,107,026$ |
| $12=$ December | 17,472 | $2,306,970$ |
| 99 = Missing | 38,102 | $2,453,158$ |

FIRST-LISTED DIAGNOSES FOR NEWBORN INFANTS, by ICD9-CM Chapter
UNWEIGHTED N WEIGHTED ESTIMATE

| VCODES | 31,706 | $3,925,871$ |
| :--- | ---: | ---: |
| CHAPTER 1 | 0 | 0 |
| CHAPTER 2 | 0 | 0 |
| CHAPTER 3 | 0 | 0 |
| CHAPTER 4 | 0 | 0 |
| CHAPTER 5 6 | 0 | 0 |
| CHAPTER | 0 | 0 |
| CHAPTER 7 | 0 | 0 |
| CHAPTER 9 | 0 | 0 |
| CHAPTER 9 10 | 0 | 0 |
| CHAPTER | 0 |  |
| CHAPTER 11 | 0 | 0 |
| CHAPTER 12 | 0 | 0 |
| CHAPTER 13 | 0 | 0 |
| CHAPTER 14 | 0 | 0 |
| CHAPTER 15 | 0 | 0 |
| CHAPTER 16 | 0 | 0 |
| CHAPTER 17 | 0 | 0 |

FIRST-LISTED DIAGNOSES FOR NON-NEWBORNS, by ICD9-CM Chapter

UNWEIGHTED N
VCODES
CHAPTER 1
CHAPTER 2
CHAPTER 3
CHAPTER 4
CHAPTER 5
CHAPTER 6
CHAPTER 7
CHAPTER 8
CHAPTER 9
CHAPTER 10
CHAPTER 11
CHAPTER 12
CHAPTER 13
CHAPTER 14
CHAPTER 15

37,490
7,386
14,791
10,163
3,099
16,211
4,307
48,112
25,949
23,090
13,261
4,677
3,766
11,751
1,953
1,542

WEIGHTED ESTIMATE
4,245,991
845,293
1,804,767
1,272,426
333,479
1,942,533
512,456
6,107,307
3,237,891
2,906,030
1,672,588
535,681
451,556
1,505,708
166,770
152,320

| CHAPTER 16 | 2,250 | 302,190 |
| :--- | :---: | :---: |
| CHAPTER 17 | 20,504 | $2,549,628$ |
| WEIGHTED FREQUENCIES | ALL-LISTED DIAGNOSES, by ICD9-CM Chapter |  |

NEWBORN INFANTS NON-NEWBORNS

| ALL | $7,511,702$ | $125,078,947$ |
| :--- | ---: | ---: |
| ECODES | 2,439 | $3,367,282$ |
| VCODES | $4,695,900$ | $8,371,966$ |
| CHAPTER 1 | 50,176 | $3,527,457$ |
| CHAPTER 2 | 13,307 | $4,488,142$ |
| CHAPTER 3 | 16,839 | $12,022,958$ |
| CHAPTER 4 | 6,421 | $3,920,735$ |
| CHAPTER 5 | 549 | $7,350,789$ |
| CHAPTER 6 | 16,396 | $3,455,621$ |
| CHAPTER 7 | 17,497 | $26,992,311$ |
| CHAPTER 8 | 17,549 | $9,368,172$ |
| CHAPTER 9 | 23,388 | $8,156,083$ |
| CHAPTER 10 | 25,500 | $6,811,524$ |
| CHAPTER 11 | 0 | $8,264,816$ |
| CHAPTER 12 | 21,425 | $1,531,063$ |
| CHAPTER 13 | 11,038 | $4,540,849$ |
| CHAPTER 14 | 252,180 | 576,600 |
| CHAPTER 15 | $2,271,852$ | 415,824 |
| CHAPTER 16 | 61,935 | $5,997,787$ |
| CHAPTER 17 | 7,311 | $5,918,968$ |

WEIGHTED FREQUENCIES - ALL-LISTED PROCEDURES, by ICD9-CM Chapter
NEWBORN INFANTS NON-NEWBORNS

| ALL | $2,538,483$ | $40,397,052$ |
| :--- | ---: | ---: |
| CHAPTER 1 | 56,918 | 937,246 |
| CHAPTER 2 | 0 | 100,674 |
| CHAPTER 3 | 552 | 188,200 |
| CHAPTER 4 | 1,144 | 58,201 |
| CHAPTER 5 | 1,835 | 323,448 |
| CHAPTER 6 | 15,763 | $1,038,474$ |
| CHAPTER 7 | 112,923 | $5,443,642$ |
| CHAPTER 8 | 107 | 347,776 |
| CHAPTER 9 | 11,370 | $4,976,411$ |
| CHAPTER 10 | 1,723 | $1,016,417$ |
| CHAPTER 11 | $1,204,539$ | 301,734 |


| CHAPTER 12 | 45 | $2,095,890$ |
| :--- | ---: | ---: |
| CHAPTER 13 | 0 | $6,540,185$ |
| CHAPTER 14 | 510 | $3,134,126$ |
| CHAPTER 15 | 7,064 | $1,290,163$ |
| CHAPTER 16 | $1,123,990$ | $12,604,465$ |


[^0]:    * Ages 100 and over were recoded to 99 .

