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# **1978 NAMCS Micro Data Tape Documentation**

U.S. DEPARTMENT OF  
HEALTH AND HUMAN SERVICES  
Public Health Service  
Office of Health Research, Statistics, and Technology  
National Center for Health Statistics

1978  
NAMCS MICRO DATA TAPE  
DOCUMENTATION

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## 1978 NAMCS MICRO-DATA TAPE DOCUMENTATION

## ABSTRACT

This material provides documentation for users of the Micro-Data tapes of the National Ambulatory Medical Care Survey (NAMCS) conducted by the National Center for Health Statistics. Section I, "Description of the National Ambulatory Medical Care Survey," includes information on the history of NAMCS, the scope of the survey, the sample, field activities, data collection procedures, symptom coding procedures, population estimates, and sampling errors. Section II provides technical details of the tape (number of tracks, record length, etc.). Section III provides a detailed description of the contents of each data record by location. Section IV contains marginal data or estimates for each item on the data record in Section III. An appendix defines certain terms used in this document.

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## 1978 NAMCS MICRO-DATA TAPE DOCUMENTATION

## I. DESCRIPTION OF THE NATIONAL AMBULATORY MEDICAL CARE SURVEY

INTRODUCTION.--These Micro-Data Tapes comprise the data collected by the National Ambulatory Medical Care Survey (NAMCS) in 1978, conducted by the National Center for Health Statistics (NCHS). The National Ambulatory Medical Care Survey provides continuous data from samples of patient records selected from a national sample of office-based physicians. These national estimates describe the utilization of ambulatory medical care services in the coterminous United States. In 1978 there were approximately 47,000 patient records sampled from the 1,850 doctors that participated in the survey. For a 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 references 1 and 6. A brief statement on sampling errors can be found in the appendix of these documentation.

HISTORY.--To provide more complete and precise information on the utilization of the nation's ambulatory care resources and on the nature and treatment of illness among the population seeking ambulatory care, the NCHS in 1967 began exploring possibilities for surveying morbidity in private physicians' offices. A national technical advisory group was established. Initial discussions resulted in a tentative protocol that called for periodic meetings of a working group comprised of the Director of the NCHS Division of Health Resources Statistics, the Project Officer and staff, the contractor's representatives, and a consultant group from the Johns Hopkins University in Baltimore.

The background and development of methods employed for the NAMCS required exploratory and feasibility studies conducted over a period of 6 years. Literature review and consultation documented needs and potential uses for national ambulatory medical care statistics. Information regarding accepted definitions, uniform terminology, procedural experience, or practical classifications for the problems and conditions encountered in ambulatory care settings was found to be limited. First, data collection forms and procedures were developed and tested by sample physicians in a national field survey, which demonstrated the difficulty of achieving high levels of participation. Refined data collection forms and improved procedures were further tested by a second sample of physicians in an extensive national survey lasting over 2 quarters in 1 year. Results demonstrated the usefulness of professional endorsement, procedural efficiency, and minimal work requirements in achieving physician-participation levels exceeding 80 percent.

Finally, with advice and support from the technical advisory group, the American Medical Association, individual experts, other professional groups, and elements of the Public Health Service, NCHS initiated the National Ambulatory Medical Care Survey in 1973.

SCOPE OF THE SURVEY.--The basic sampling unit for the NAMCS is the physician-patient encounter or visit. Only visits in the offices of nonfederally employed physicians classified by the American Medical Association (AMA) or the American Osteopathic Association (AOA) as "office-based, patient care" were included in the 1978 NAMCS. In addition, physicians in the specialties of anesthesiology,

pathology, and radiology were excluded from the physician universe. Major types of ambulatory encounters not included in the 1978 NAMCS were those made by telephone, those made outside of the physician's office, and those made in hospital or institutional settings. It is planned to extend the NAMCS to include these encounters in the future, though some complex methodological and sampling problems must be resolved first.

**SAMPLING FRAME AND SIZE OF SAMPLE.** The sampling frame for the NAMCS is composed of all physicians contained in the master files maintained by the AMA and AOA as of December 31, 1977, who met the following criteria:

Office-based, as defined by the AMA and AOA:

Principally engaged in patient care activities;

Nonfederally employed;

Not in specialties of anesthesiology, pathology, clinical pathology, forensic pathology, radiology, diagnostic radiology, pediatric radiology, or therapeutic radiology.

The 1978 NAMCS sample included 3,007 physicians: 2,903 MD's and 104 doctors of osteopathy. Sample physicians were screened at the time of the survey to assure that they met the above-mentioned criteria; 466 physicians did not meet all of the criteria and were, therefore, ruled out of scope (ineligible) for the study. The most frequent reasons for being out of scope were that the physician was retired, deceased, or employed in teaching, research, or administration. Of the 2,541 in-scope (eligible) physicians, 1,850 (72.8 percent) participated in the study. The physician universe, sample size, and response rates by physician specialty are shown in table I. Of the participating physicians, 295 physicians saw no patients during their assigned reporting period because of vacations, illness, or other reasons for being temporarily not in practice.

**Sample Design.** The 1978 NAMCS utilized a multistage probability design that involved probability samples of primary sampling units (PSU's), physician practices within PSU's, and patient visits within practices. The first-stage sample of 87 PSU's was selected by the National Opinion Research Center (NORC), the organization responsible for field operations under contract to the NCHS. A PSU is a county, a group of adjacent counties, or a standard metropolitan statistical area (SMSA). A modified probability proportional-to-size procedure using separate sampling frames for SMSA's and for nonmetropolitan counties was employed. After sorting and stratifying by size, region, and demographic characteristics, each frame was divided into sequential zones of 1 million residents, and a random number was drawn to determine which PSU came into the sample from each zone.

Table I. Distribution of physicians in the universe (AMA and AOA) and in the 1978 National Ambulatory Medical Care Survey sample by physician specialty, United States, January-December 1978.

Physician specialty	Universe	Gross Total	Out of Scope	Net Total	Non-Response	Response	Response Rate
All specialties	212,215	3,007	466	2,541	691	1,850	72.8
General and family practice	51,503	756	129	627	203	424	67.6
Medical specialties	60,120	820	123	697	186	511	73.3
Internal medicine	31,743	421	61	360	94	266	73.9
Pediatrics	14,707	208	37	171	40	131	76.6
Other	13,670	191	25	166	52	114	68.7
Surgical specialties	73,537	1,058	105	953	251	702	73.7
General surgery	20,991	284	35	249	65	184	73.9
Obstetrics and gynecology	17,233	245	22	223	61	162	72.6
Other	35,313	529	48	481	125	356	74.0
Other specialties	27,055	373	109	264	51	213	80.7
Psychiatry	15,417	220	37	183	36	147	80.3
Other	11,638	153	72	81	15	66	81.5

The second stage consisted of a probability sample of practicing physicians selected from the master files maintained by the American Medical Association (AMA) and American Osteopathic Association (AOA). Within each PSU, all eligible physicians were arranged by nine specialty groups: general and family practice, internal medicine, pediatrics, other medical specialties, general surgery, obstetrics and gynecology, other surgical specialties, psychiatry, and other specialties. Then, within each PSU, a systematic random sample of physicians was selected in such a way that the overall probability of selecting any physician in the United States was approximately constant.

The final stage was the selection of patient visits within the annual practices of sample physicians. This involved two steps. First, the total physician sample was divided into 52 random subsamples of approximately equal size, and each subsample was randomly assigned to 1 of the 52 weeks in the survey year. Second, a systematic random sample of visits was selected by the physician during the assigned week. The sampling rate varied for this final step from a 100-percent sample for very small practices to a 20-percent sample for very large practices as determined in a presurvey interview. The method by which the sampling rate was determined is described in reference 7.

FIELD ACTIVITIES--The first contact with the sample physician is through a letter from the Director, NCHS, which may be accompanied by a letter from one of the 17 national medical associations that endorse the NAMCS providing the physician is a member of one or more of these associations. Examples of these letters are shown in Figures 1 and 2. After the physician has received the introductory letter(s) the interviewer telephones the physician to set up an appointment with him or her to discuss the survey and instruct the doctor on how to complete the forms. The success of the survey depends a great deal on the outcome of this first personal contact with the physician. Therefore, it is very important that the interviewer be trained and well-informed on all aspects of the survey. Rather than include copies of all the interviewer materials in this documentation, copies are available on request. These materials include instructions to interviewers as well as all the forms used in the field by the interviewer in carrying out his or her assignment.

It should be noted that in 1978 a new classification system was used to code reason for visit data. This new system differs from the symptom classification system<sup>3/</sup> used from 1973 through 1976 in that it contains several major revisions and includes a substantially greater amount of detail. Unfortunately, because of these differences the reason for visit date for 1978 are not comparable with reason for visit data from the years prior to 1977. The new system utilizes a modular structure composed of seven modules:

- 1 - symptom module
- 2 - disease module
- 3 - diagnostic, screening, and preventive module
- 4 - treatment module.
- 5 - injuries and adverse effects module
- 6 - test results module
- 7 - administrative module

A maximum of three problems were coded, in sequence.

Diagnostic information in item 8 of the Patient Record was coded according to the Eighth Revision International Classification of Diseases, Adapted for Use in the United States (ICDA).<sup>4</sup> A maximum of three diagnoses were coded in sequence.

In addition to the diagnostic codes contained in the ICDA there are 4 unique codes on the tape that were developed by the NAMCS staff:

0000 = blank diagnosis  
Y997 = diagnosis given as "NONE"  
Y998 = noncodable diagnosis  
Y999 = illegible diagnosis

It should be noted that all "Y" codes will have an alpha character in the first position of the 4-digit code. A two-way independent verification procedure with 100-percent verification was used to control the medical coding operation. Differences between coders were adjudicated at the National Center for Health Statistics.

Coding instructions concerning the reason for visit classification as well as the ICDA are contained in the NAMCS 1977 Medical Coding Manual.<sup>5</sup> Copies are available upon request. Call or write to Raymond O. Gagnon, NCHS, Room 212, 3700 East-West Highway, Hyattsville, Maryland 20782 (301/436-7132).

Data Collection.--The actual data collection for the NAMCS was carried out by the physician aided by his office staff when possible. Two data collection forms were employed by the physician: The Patient Log and the Patient Record (Figure 3). The Patient Log is a sequential listing of patients seen in the physician's office during his assigned reporting week. This list served as the sampling frame to indicate the visit for which data were to be recorded. A perforation between the patient names and patient visit characteristics permitted the physician to remove patient names and protect confidentiality.

Based on the physician's estimate of the expected number of office visits each physician was assigned a patient-sampling ratio. These ratios were designed so that about 30 Patient Records were completed during the assigned reporting week. Physicians expecting 10 or fewer visits each day recorded data for all of them, while those expecting more than 10 visits per day recorded data for every second, third, or fifth visit based on the predetermined sampling interval. These procedures minimized the data collection workload and maintained approximate equal reporting levels among sample physicians regardless of practice size. For physicians assigned a patient sampling ratio, a random start was provided on the first page of the log, so that predesignated sample visits on each succeeding page of the log provided a systematic random sample of patient visits during the reporting period.



Figure 1



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
NATIONAL CENTER FOR HEALTH STATISTICS  
HYATTSVILLE, MARYLAND 20782

NATIONAL AMBULATORY  
MEDICAL CARE SURVEY

Date

Endorsing Organizations

American Academy  
of Dermatology

American Academy of  
Family Physicians

American Academy  
of Neurology

American Academy of  
Orthopaedic Surgeons

American Academy  
of Pediatrics

American Association of  
Neurological Surgeons

American College of  
Obstetricians and  
Gynecologists

American College  
of Physicians

American College of  
Preventive Medicine

American Osteopathic  
Association

American Proctologic  
Society

American Psychiatric  
Association

American Society of  
Internal Medicine

American Society of  
Plastic and Reconstructive  
Surgeons, Inc.

American Urologic  
Association

Association of American  
Medical Colleges

National Medical  
Association

John Doe, M.D.  
1000 Anywhere Steet  
Sunnyville, Anywhere 99999

Dear Dr. Doe:

The National Center for Health Statistics, as part of its continuing program to provide information on the health status of the American people, is conducting a National Ambulatory Medical Care Survey (NAMCS).

The purpose of this survey is to collect information about ambulatory patients, their problems, and the resources used for their care. The resulting published statistics will help your profession plan for more effective health services, determine health manpower requirements, and improve medical education.

Since practicing physicians are the only reliable source of this information, we need your assistance in the NAMCS. As one of the physicians selected in our national sample, your participation is essential to the success of the survey. Of course, all information that you provide is held in strict confidence.

Many organizations and leaders in the medical profession have expressed their support for this survey, including those shown to the left. In particular, your own specialty society has reviewed the NAMCS program and supports this effort (see enclosure). They join me in urging your cooperation in this important research.

Within a few days, a survey representative will telephone you for an appointment to discuss the details of your participation. We greatly appreciate your cooperation.

Sincerely yours,

Dorothy P. Rice  
Director

Enclosure



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Johnson City, Tennessee

*President-Elect*  
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Danville, Pennsylvania

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*Executive Director*  
WILLIAM R. RAMSEY

Twenty-Third Annual Meeting  
New Orleans, Louisiana  
April 28-29, 1979

Dear Dr.

You will soon be asked to participate in the National Ambulatory Medical Survey (NAMCS). The National Center for Health Statistics has invested over five years in developing this unique study for collecting national data on office-based ambulatory practice. You are well aware that the American Society of Internal Medicine is deeply interested in the science of the delivery of health care and particularly as it relates to office practice. We believe that NAMCS will provide a data-base for planning and organizing health services, assessing health facility and manpower requirements, as well as possibly determining desirable modification in medical education programs.

ASIM has been involved in finalizing the forms and procedures. We believe that the survey designed minimizes the amount of record-keeping and time involved on your part. We have assurances that strict confidentiality provisions will be maintained and that only summary data will be published or made available to the health planners, researchers, and the public.

I would urge that you support NAMCS by providing the information requested since we look forward to obtaining and utilizing the results of this important research study. Should you have any questions, do not hesitate to get in touch with me.

Sincerely yours,

Ben D. Hall, M.D.

BDH:kb

Figure 3

C 444121

C444121

ASSURANCE OF CONFIDENTIALITY—All information which would permit identification of an individual, a practice, or an establishment will be held confidential, will be used only by persons engaged in and for the purposes of the survey and will not be disclosed or released to other persons or used for any other purpose.	
<b>PATIENT LOG</b>	<b>1. DATE OF VISIT</b> _____ <i>Mo/Day/Yr</i>
For each patient arrives, record name and time of visit on the log below. For the patient entered on line #2, also complete the patient record to the right.	<b>PATIENT RECORD</b> <b>NATIONAL AMBULATORY MEDICAL CARE SURVEY</b>
<b>PATIENT'S NAME</b>	<b>2. DATE OF BIRTH</b> _____ <i>Mo/Day/Yr</i>
TIME OF VISIT	<b>3. SEX</b> 1 <input type="checkbox"/> FEMALE 2 <input type="checkbox"/> MALE
	<b>4. COLOR OR RACE</b> 1 <input type="checkbox"/> WHITE 2 <input type="checkbox"/> NEGRO/BLACK 3 <input type="checkbox"/> OTHER 4 <input type="checkbox"/> UNKNOWN
	<b>5. WAS PATIENT REFERRED FOR THIS VISIT BY ANOTHER PHYSICIAN?</b> 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO
	<b>6. PATIENT'S COMPLAINT(S), SYMPTOM(S), OR OTHER REASON(S) FOR THIS VISIT</b> <i>(In patient's own words)</i> a. MOST IMPORTANT _____ b. OTHER _____
	<b>7. TIME SINCE ONSET OF COMPLAINT/SYMPTOM IN ITEM 6a</b> <i>(Check one)</i> 1 <input type="checkbox"/> LESS THAN 1 DAY 2 <input type="checkbox"/> 1-6 DAYS 3 <input type="checkbox"/> 1-3 WEEKS 4 <input type="checkbox"/> 1-3 MONTHS 5 <input type="checkbox"/> MORE THAN 3 MONTHS 6 <input type="checkbox"/> NOT APPLICABLE
	<b>8. PHYSICIAN'S DIAGNOSES</b> a. PRINCIPAL DIAGNOSIS/PROBLEM ASSOCIATED WITH ITEM 6a _____ b. OTHER SIGNIFICANT CURRENT DIAGNOSES _____
	<b>9. HAVE YOU SEEN PATIENT BEFORE?</b> 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO IF YES, FOR THE CONDITION IN ITEM 8a? 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO
	<b>10. SERIOUSNESS OF CONDITION IN ITEM 8a</b> <i>(Check one)</i> 1 <input type="checkbox"/> VERY SERIOUS 2 <input type="checkbox"/> SERIOUS 3 <input type="checkbox"/> SLIGHTLY SERIOUS 4 <input type="checkbox"/> NOT SERIOUS
Record items 1-14 for this patient	<b>11. DIAGNOSTIC SERVICES THIS VISIT</b> <i>(Check all ordered or provided)</i> 1 <input type="checkbox"/> NONE 2 <input type="checkbox"/> LIMITED EXAM/HISTORY 3 <input type="checkbox"/> GENERAL EXAM/HISTORY 4 <input type="checkbox"/> PAP TEST 5 <input type="checkbox"/> CLINICAL LAB TEST 6 <input type="checkbox"/> X-RAY 7 <input type="checkbox"/> EKG 8 <input type="checkbox"/> VISION TEST 9 <input type="checkbox"/> ENDOSCOPY 10 <input type="checkbox"/> BLOOD PRESSURE CHECK 11 <input type="checkbox"/> OTHER <i>(Specify)</i> _____
	<b>12. THERAPEUTIC SERVICES THIS VISIT</b> <i>(Check all ordered or provided)</i> 1 <input type="checkbox"/> NONE 2 <input type="checkbox"/> IMMUNIZATION/DESENSITIZATION 3 <input type="checkbox"/> DRUGS (PRESCRIPTION/NONPRESCRIPTION) 4 <input type="checkbox"/> DIET COUNSELING 5 <input type="checkbox"/> FAMILY PLANNING 6 <input type="checkbox"/> MEDICAL COUNSELING 7 <input type="checkbox"/> PHYSIOTHERAPY 8 <input type="checkbox"/> OFFICE SURGERY 9 <input type="checkbox"/> PSYCHOTHERAPY/THERAPEUTIC LISTENING 10 <input type="checkbox"/> OTHER <i>(Specify)</i> _____
	<b>13. DISPOSITION THIS VISIT</b> <i>(Check all that apply)</i> 1 <input type="checkbox"/> NO FOLLOW-UP PLANNED 2 <input type="checkbox"/> RETURN AT SPECIFIED TIME 3 <input type="checkbox"/> RETURN IF NEEDED, P.R.N. 4 <input type="checkbox"/> TELEPHONE FOLLOW-UP PLANNED 5 <input type="checkbox"/> REFERRED TO OTHER PHYSICIAN 6 <input type="checkbox"/> RETURNED TO REFERRING PHYSICIAN 7 <input type="checkbox"/> ADMIT TO HOSPITAL 8 <input type="checkbox"/> OTHER <i>(Specify)</i> _____
	<b>14. DURATION OF THIS VISIT</b> <i>(Time actually spent with physician)</i> _____ MINUTES

CONTINUE LISTING PATIENTS ON NEXT PAGE

Data Processing and Medical Coding.--In addition to the completeness checks made by the field staff, clerical edits were performed upon receipt of the data for central processing. These procedures proved quite efficient, reducing the item nonresponse rates to a negligible amount--2 percent or less for all data items.

Information contained in item 6 (patient's reason for visit) of the Patient Record was coded according to a special classification system developed for that purpose.<sup>2</sup>

Information from the Induction Interview and Patient Record was keypunched, with 100-percent verification and converted to computer tape. At this time, extensive computer consistency and edit checks were performed. Data items still unanswered at this point were imputed by assigning a value from a Patient Record with similar characteristics; imputations were based on physician specialty, major reason for visit, and broad diagnostic categories.

Population Figures.--The base population used in computing annual visit rates is presented in table II. These figures are based on provisional estimates for the civilian noninstitutionalized population as of July 1, 1978, provided by the U.S. Bureau of the Census. Because the NAMCS includes data for only the coterminous United States, the original census estimates were modified to account for the exclusion of Alaska and Hawaii from the study. For this reason the population estimates should not be considered as official population estimates and are presented here solely for the purpose of providing denominators for rate computations.

Estimation Procedures.--Statistics produced from the 1978 National Ambulatory Medical Care Survey were derived by a multistage estimating procedure. The procedure produces essentially unbiased national estimates and has basically three components: (1) inflation by reciprocals of the probabilities of selection, (2) adjustment for nonresponse, and (3) a ratio adjustment to fixed totals. Each of these components is described briefly below.

*Inflation by reciprocals of sampling probabilities.*--Since the survey utilized a three-stage sample design, there were three probabilities: (1) the probability of selecting the PSU, (2) the probability of selecting a physician within the PSU, and (3) the probability of selecting a patient visit with the physician's practice. The last probability was defined to be the exact number of office visits during the physician's specified reporting week divided by the number of Patient Records completed. All weekly estimates were inflated by a factor of 52 to derive annual estimates.

Table II. Estimates of the civilian noninstitutionalized population of the United States,<sup>1</sup> by age, according to race and sex, geographic region, and metropolitan and nonmetropolitan area as of July 1, 1978

Race, sex, geographic region, and metropolitan and nonmetropolitan area	All ages	Age				
		Under 15 years	15-24 years	25-44 years	45-64 years	65+ years
<u>Race and Sex</u>		Number in thousands				
All races	212,510	50,423	39,684	56,497	43,186	22,719
Male	102,531	25,726	19,494	27,315	20,631	9,365
Female	109,979	24,697	20,190	29,183	22,555	13,354
<u>White</u>	183,916	41,728	33,791	49,284	38,562	20,551
Male	89,160	21,346	16,729	24,141	18,506	8,438
Female	94,157	20,382	17,062	25,144	20,055	12,114
<u>Black</u>	25,532	7,880	5,333	6,176	4,135	2,009
Male	11,795	3,941	2,490	2,646	1,878	840
Female	13,736	3,939	2,842	3,530	2,257	1,169
<u>Other</u>	3,061	816	561	1,037	489	159
Male	1,575	439	275	528	246	87
Female	1,486	377	286	509	243	72
<u>Geographic region</u>						
Northeast	48,667					
North Central	57,356					
South	69,206					
West	37,280					
<u>Area</u>						
Metropolitan	145,538					
Nonmetropolitan	66,972					

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<sup>1</sup>Excludes Alaska and Hawaii

*Adjustment for nonresponse.*--Estimates from the NAMCS data were adjusted to account for sample physicians who did not participate in the study. This was done in such a manner as to minimize the impact of nonresponse on final estimates by imputing to nonresponding physicians the practice characteristics of similar responding physicians. For this purpose, similar physicians were judged to be physicians having the same specialty designation and practicing in the same PSU.

*Ratio adjustment.*--A poststratification adjustment was made within each of nine physician specialty groups. The ratio adjustment was a multiplication factor which had as its numerator the number of physicians in the universe in each physician specialty group, and as its denominator the estimated number of physicians in that particular specialty group. The numerator was based on figures obtained from the AMA-AOA master files, and the denominator was based on data from the sample.

*Sampling Errors.*--Procedures for calculating sampling errors as well as estimates of standard errors of statistics derived from the NAMCS are described in Appendix I of reference 6, as well as the Appendix of these documentation.

*Patient Weight.*--The "patient weight" is a vital component in the process of producing national estimates from sample data and its use should be clearly understood by all micro-data tape users. The statistics contained on the micro-data tape reflect data concerning only a sample of patient visits--and not a complete count of all the visits that occurred in the United States. The "patient weight" is an inflation factor assigned to each patient record. By aggregating the "patient weights" an estimated complete count or national estimate can be obtained.

*Questions.*--Questions concerning data in the tapes should be directed to Ambulatory Care Statistics Branch, Division of Health Resources Utilization Statistics, National Center for Health Statistics, Room 212, 3700 East-West Highway, Hyattsville, Maryland 20782. The telephone number is 301/436-7132.

References<sup>1/</sup>

NCHS published statistics from the NAMCS in Series 13 of VITAL AND HEALTH STATISTICS, PHS No. 1000, Public Health Service, Washington, U.S. Government Printing Office.

1.--National Center for Health Statistics: National Ambulatory Medical Care Survey: Background and Methodology, United States. VITAL AND HEALTH STATISTICS. Series 2--No. 61. DHEW Pub. No. (HRA) 74-1335. Health Resources Administration. Washington. U.S. Government Printing Office. March 1974.

2.--National Center for Health Statistics: A Reason for Visit Classification for Ambulatory Care, United States. VITAL AND HEALTH STATISTICS. Series 2--No. 78. DHEW Pub. No. (PHS) 79-1352. Public Health Service. Hyattsville, Maryland. U.S. Government Printing Office, February 1979.

3.--National Center for Health Statistics: The National Ambulatory Medical Care Survey: Symptom Classification, United States, VITAL AND HEALTH STATISTICS. Series 2--No. 63. DHEW Pub. No. (HRA) 74-1337. Health Resources Administration. Washington. U.S. Government Printing Office, May 1974.

4.--National Center for Health Statistics: Eighth Revision International Classification of Diseases, Adapted for Use in the United States (ICDA). PHS Pub. No 1693. Public Health Service. Washington. U.S. Government Printing Office, 1967.

5.--National Ambulatory Medical Care Survey: 1977 Medical Coding Manual.

6.--National Center for Health Statistics: 1978 Summary: National Ambulatory Medical Care Survey, United States. Advance Data from Vital and Health Statistics, No. 60. DHEW Publication No. (PHS) 80-1250. Public Health Service. Hyattsville, Maryland

7.--Induction Interview Form. National Ambulatory Medical Care Survey. National Opinion Research Center. University of Chicago. OMB No. 068-572106.

<sup>1/</sup>Information concerning other reports to be written on 1978 data may be obtained from the Ambulatory Care Statistics Branch.

## II. Technical Description of Tapes

Date Set Name:	NAMC1978
Number of Reels:	1
Number of Recording Tracks:	9
Density (bpi):	1600
Language:	EBEDIC
Parity:	ODD
Record Length:	90
Blocksize:	4,500
Number of Records:	47,291
Computer Compatibility:	IBM 360 or 370



## III. TAPE RECORD FORMAT

This section consists of a detailed breakdown of each tape record, providing a brief description of each item of data included in the records. The data are arranged sequentially according to their physical location on the tape record. Unless otherwise stated in the "Item description" column, the data are derived from the patient record (figure 3). The AMA and the induction interview (reference 7) are alternate sources of data, while the computer generates other items by recoding selected data items.

<u>Item No.</u>	<u>Field Length</u>	<u>Tape Location</u>	<u>Item Description and Codes</u>
1	4	1-4	<u>Date of visit</u>
1.1	2	1-2	Month of visit 01-12: January-December
1.2	2	3-4	Year of visit Last 2 digits of year
2	4	5-8	<u>Date of birth</u>
2.1	2	5-6	Month of birth 01-12: January-December
2.2	2	7-8	Year of birth Last 2 digits of year
3	1	9	<u>Sex</u> 1=Female 2=Male
4	1	10	<u>Race</u> 1=White 2=All other
5	1	11	<u>Patient Referred by Another Physician</u> 1=Yes 2=No
6	15	12-26	<u>Patient Problems</u> (see reference 2 for codes)
6.1	5	12-16	Most important problem #1
6.2	5	17-21	Most important problem #2 (if any reported)
6.3	5	22-26	Other problem
7	1	27	<u>Time Since Onset of Complaint/Symptom in Item 6a</u> 1=Less than 1 day 2=1-6 days 3=1-3 weeks 4=1-3 months 5=more than 3 months 6=not applicable

<u>Item No.</u>	<u>Field Length</u>	<u>Tape Location</u>	<u>Item Description and Codes</u>
8	12	28-39	<u>Physician's principal diagnosis</u> (see reference 4 for codes)
8.1	4	28-31	First diagnosis associated with item 6a
8.2	4	32-35	Second Diagnosis associated with item 6a (if any
8.3	4	36-39	Other significant current diagnosis reported)
9	2	40-41	<u>Ever seen patient before</u>
9.1	1	40	1=yes 2=no
9.2	1	41	<u>If yes, for the condition in item 8a?</u> 0=blank 1=yes 2=no
10	1	42	<u>Seriousness of Condition in item 8a</u> 1=very serious 2=serious 3=slightly serious 4=not serious
11	11	43-53	<u>Diagnostic services this visit</u>
11.1	1	43	None (1=yes and 0=no)
11.2	1	44	Limited exam/history "
11.3	1	45	General exam/history "
11.4	1	46	Pap test "
11.5	1	47	Clinical lab. test "
11.6	1	48	X-ray "
11.7	1	49	EKG "
11.8	1	50	Vision test "
11.9	1	51	Endoscopy "
11.10	1	52	Blood pressure check "
11.11	1	53	Other "
12	10	54-63	<u>Therapeutic services this visit</u>
12.1	1	54	None (1=yes and 0=no)
12.2	1	55	Immunization/desensitization "
12.3	1	56	Drugs (prescription/nonprescription) "
12.4	1	57	Diet counseling "
12.5	1	58	Family planning "
12.6	1	59	Medical counseling "
12.7	1	60	Physiotherapy "
12.8	1	61	Office surgery "
12.9	1	62	Psychotherapy/therapeutic listening "
12.10	1	63	Other "

<u>Item No.</u>	<u>Field Length</u>	<u>Tape Location</u>	<u>Item Description and Codes</u>
13	8	64-71	<u>Disposition of visit</u>
13.1	1	64	No follow-up planned (1=yes and 0=no)
13.2	1	65	Return at specified time "
13.3	1	66	Return if needed "
13.4	1	67	Telephone follow-up "
13.5	1	68	Referral "
13.6	1	69	Return to referring physician "
13.7	1	70	Admit to hospital "
13.8	1	71	Other "
14	3	72-74	<u>Duration of visit in minutes</u> (000-999)
15	10	75-84	<u>Patient Weight</u> A right justified, alphanumeric integer developed by the NAMCS staff for the purpose of producing national estimates from sample estimates. See notes on page 12 of these documentation.
16	1	85	<u>Geographic Region</u> (Based on actual location of physician's practice.)  1=Northeast 2=North Central 3=South 4=West
17	1	86	<u>Metropolitan/Nonmetropolitan</u> (Based on actual location in conjunction with the definition of the Bureau of the Census and the U.S. Office of Management and Budget. 01=Standard Metropolitan Statistical Area (SMSA) 02=Non-SMSA
18	3	87-89	<u>Physician Specialty</u> (Derived from Induction Interview - reference 7)  NOTE: See "List of Designated Specialty Codes" on page 18 of these documentation.
19	1	90	<u>Type of practice</u> (Derived from Induction Interview--see reference 7) 1=solo 2=partnership 3=group 4=other



## IV. 1978 MARGINALS

Any cell with an estimate of 460,000 visits or less has a relative standard error of 30-percent or more; therefore, it is considered an unreliable statistic, according to the standards of reliability of the National Center for Health Statistics.

For tabulations involving principal diagnoses (coded according to the ICDA-8) the following characteristics exist:

- 1 - The prefix "1" preceding the 3-digit diagnostic codes represents diagnoses 001-999, e.g. '1381'='381'=otitis media.
- 2 - The prefix "2" preceding the 3-digit diagnostic codes represents Y code diagnoses Y00-Y13, e.g., '2010'='Y10'=medical or surgical aftercare. In other words, eliminate the prefix "2" and change the first "0" to Y.
- 3 - The diagnostic code '2099'=Y99=the sum of the following: diagnosis given as "none", noncodable diagnosis, and illegible diagnosis.

NOTE: The user should be aware that characteristics 1, 2 and 3 above apply only to the marginal data included in these documentation. The diagnostic codes on the micro-data tape will not include such prefixes, but will represent the actual 4-digit diagnoses as found in ICDA-8.

For tabulations involving principal reasons for visit (coded according to A Reason for Visit Classification for Ambulatory Care (RVC)<sup>2/</sup>), the digits 1 through 8 preceding the 3-digit RVC codes represent the various modules of the RVC according to the following:

- "1" = symptom module, e.g., '1010'='S010'=fever
- "2" = disease module, e.g., '2205'='D205'=diabetes mellitus
- "3" = diagnostic, screening, and preventive module, e.g., '3100'='X100' = general medical exam
- "4" = treatment module, e.g., '4110'='T110'=injections
- "5" = injuries and adverse effects module, '5020'='J020'=fracture and dislocation of leg
- "6" = test results module, e.g., '6100' = R100 = results of blood glucose test
- "7" = administrative module, e.g., '7100' = A100 = physical examination required for employment
- "8" = Uncodeable entries, e.g., '8997' = U997 = entry of "none" or no complaint

"0" = special code=blank

## 1978 NAMCS Micro-Data Tape Documentation

## KEY

Row 01 = Unweighted frequency

Row 02 = Weighted frequency\*

Row 03 = Column percent

Row 04 = Row percent

\* See notes on "patient weight" on page 12 of these documentation.

	ALL	UNDER15	15-24	25-44	45-64	65+
AGE	47291	7932	6637	12872	11997	7853
	584498040	108917301	86494513	153654716	141507527	93923983
	100.00	100.00	100.00	100.00	100.00	100.00
	100.00	18.63	14.80	26.29	24.21	16.07

  

	ALL	F	M
SEX	47291	27983	19408
	584498040	349244476	235253564
	100.00	100.00	100.00
	100.00	59.75	40.25

  

	ALL	WHITE	BLACK	OTHER
RACE(3)	47291	42158	3753	1380
	584498040	520434762	46924070	17139208
	100.00	100.00	100.00	100.00
	100.00	89.04	8.03	2.93

  

	ALL	YES	NO
PATIENT REFERRAL STATUS	47291	2636	44655
	584498040	28567784	555930256
	100.00	100.00	100.00
	100.00	4.89	95.11

  

	ALL	NEW PT	OLD PT NEWPROB	OLD PT OLDPROB
STATUS OF VISIT	47291	7389	10524	29378
	584498040	87386257	142527903	354583880
	100.00	100.00	100.00	100.00
	100.00	14.95	24.38	60.66

1978 NAMCS Micro-Data Tape Documentation

	ALL	LESS THAN 1 DAY	1-5 DA	1-3 WK	1-3 MO	3 MO OR MORE
TIME SINCE ONSET OF COMPLAINT	47291 584498040 100.00 100.00	1677 23706004 100.00 4.06	5320 126891719 100.00 21.71	5925 87803242 100.00 15.02	6423 75863905 100.00 12.98	17392 193660859 100.00 34.16
NA	5559 70554311 100.00 12.07					
	ALL	VERY SERIOUS	SERIOUS	SLIGHT SER	NOT SER	
SERIOUSNESS OF PROB	47291 584498040 100.00 100.00	2134 20891236 100.00 3.57	8194 88018012 100.00 15.06	14695 186918285 100.00 31.98	22268 288670507 100.00 49.39	
	ALL	NONE	LIMITED EXAM	GEN EXAM	PAP TEST	CLIN LAB TEST
DIAG SERV	47291 584498040 100.00 100.00	5128 53252229 100.00 9.11	28575 361404330 100.00 61.83	10100 124266347 100.00 21.26	2183 28376234 100.00 4.85	9686 121822816 100.00 20.84
	X-RAY	EKG	VISION TEST	ENDOS COPY	BLOOD PRES CK	
	4115 47937206 100.00 8.20	1753 20075345 100.00 3.43	2234 28048658 100.00 4.80	572 6028175 100.00 1.03	15060 194555882 100.00 33.29	
OTHER DIAG	1866 23541998 100.00 4.03					
	ALL	NE	NC	S	W	
GEOG REGION	47291 584498040 100.00 100.00	12822 130475086 100.00 22.32	11134 143069996 100.00 24.48	13872 191963322 100.00 32.84	9463 118989636 100.00 20.36	

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	ALL	NONE	IMMUNIZ DESEN	DRUGS	DIET COUNSEL	FAMILY PLAN
OTHER SERV	47291 584498040 100.00 100.00	9573 114983177 100.00 19.67	2934 45658150 100.00 7.81	23055 302604970 100.00 51.77	3300 43209122 100.00 7.39	636 8353761 100.00 1.43
	MED COUNSEL	PHYSIOT	OFFICE SURG	PSYCHOT THER LISTEN	OTHER THER	
	9690 113295301 100.00 19.38	1674 21230876 100.00 3.63	3561 45197402 100.00 7.73	4127 29300292 100.00 5.01	1270 14919770 100.00 2.55	
	ALL	NO FOLLOW	RETURN SPEC TIME	RETURN IF NEEDED	TEL FOLLOW	REFER
DISPOSITION	47291 584498040 100.00 100.00	5032 65233662 100.00 11.16	25187 353784223 100.00 60.53	3928 131077686 100.00 22.43	1870 21627313 100.00 3.70	1231 14284821 100.00 2.44
	RETURN	ADMIT HOSP	OTHER			
	442 4225536 100.00 0.72	1121 13199916 100.00 2.26	419 5032232 100.00 0.86			
	ALL	INF-PAR DIS	NEOPLSM	ENDO NUTR MET	MENTAL DISORDR	DIS NERV SYSTEM
MAJOR ICDA	47291 584498040 100.00 100.00	1669 22964211 100.00 3.93	1499 16095033 100.00 2.75	1867 25224424 100.00 4.32	3533 22895616 100.00 3.92	4239 54318799 100.00 9.29
	DIS CIRC SYSTEM	DIS RESP SYSTEM	DIS DIGEST SYSTEM	DIS GENITO SYSTEM	SKIN DIS	DIS MUSKETL SYSTEM
	4711 55157060 100.00 9.44	5717 83289795 100.00 14.25	1778 20109309 100.00 3.44	2860 34750936 100.00 5.95	2446 37519114 100.00 6.42	2693 31873787 100.00 5.45
	SYMPTOM	ACCENT	SPECL COND	OTHER	DX NONE	DX UNK
	2155 26227170 100.00 4.49	3788 46896465 100.00 8.02	6577 85580786 100.00 14.64	670 8201223 100.00 1.40	396 5074453 100.00 0.87	693 8309853 100.00 1.42



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	ALL	ZERO	1-5	6-10	11-15	16-30
DURATION	47291	1085	5610	12691	12849	10576
CF VISIT	584498040	19695599	89752528	170829287	156935193	114729734
	100.00	100.00	100.00	100.00	100.00	100.00
	100.00	3.37	15.36	29.23	26.85	19.63
	31-60	60+				
	4141	339				
	29884051	2671648				
	100.00	100.00				
	5.11	0.46				
	ALL	GP	IM	PEO	GEN SUR	ORG
PHYS SPEC	47291	13519	6994	4534	3490	4099
	584498040	211016517	68331368	60159408	33099017	55138913
	100.00	100.00	100.00	100.00	100.00	100.00
	100.00	36.10	11.69	10.29	5.66	9.43
	ORTH SURG	CARDIOV	DERMA	UROL SURG	PSYCH	OPHTHAM
	2106	666	965	1095	3001	2461
	22784464	6894907	20358556	10325544	15316275	31946894
	100.00	100.00	100.00	100.00	100.00	100.00
	3.90	1.18	3.48	1.77	2.62	5.47
	NEUROL	OTOLARY				
	415	1188				
	2419148	16476878				
	100.00	100.00				
	0.41	2.82				
	ALL	SYMPTOM MODULE	DISEASE MODULE	DIAG SCREEN PREVEN	TREATMENT MODULE	INJURY ADVERSE EFFECTS
GENERAL RFV 7 MODULES	47291	26528	4050	8102	5000	1846
	584498040	330131319	47423949	107245633	55177210	23989564
	100.00	100.00	100.00	100.00	100.00	100.00
	100.00	56.48	8.11	18.35	9.44	4.10
	TEST RESULTS MODULE	ADMIN MODULE	OTHER	BLANK		
	286	769	614	96		
	3621781	8625972	7291659	990953		
	100.00	100.00	100.00	100.00		
	0.62	1.48	1.25	0.17		

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	ALL	SOLO	PARTNER	GROUP	OTHER
	47291	28560	7600	10811	320
TYPE OF PRAC	584498040	348143017	98633220	132105282	5616521
	100.00	100.00	100.00	100.00	100.00
	100.00	59.56	16.87	22.60	0.96

	ALL	METRO	NON METRO
	47291	37436	9855
METRO-NONMETRO	584498040	430810046	153687954
	100.00	100.00	100.00
	100.00	73.71	26.27

## PATIENT'S REASON FOR VISIT

(Consult reference 2 and notes on page 19 of these documentation.)

ALL	0	1005	1010	1015	1020	1025
47291	96	39	608	338	232	127
584498040	990353	419906	8558254	3704544	2776004	1741032
100.00	100.00	100.00	100.00	100.00	100.00	100.00
100.00	0.17	0.07	1.46	0.63	0.47	0.30
1030	1035	1040	1045	1050	1055	1060
66	105	458	50	753	277	220
666021	1271793	8236538	596134	9692995	3352308	2828619
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.11	0.22	1.41	0.10	1.66	0.57	0.48
1065	1070	1075	1080	1085	1090	1095
43	55	8	43	57	206	39
577332	807113	91372	627115	756803	3343773	457717
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.10	0.14	0.02	0.11	0.13	0.57	0.08
1100	1105	1110	1115	1120	1125	1130
735	103	782	40	64	29	136
5928569	501027	4495617	215902	336926	293895	808936
100.00	100.00	100.00	100.00	100.00	100.00	100.00
1.01	0.09	0.77	0.04	0.06	0.05	0.14

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1135	1140	1145	1150	1155	1160	1165
80	8	21	6	56	64	257
676492	117416	136814	40511	250261	451011	1351924
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.12	0.02	0.02	0.01	0.04	0.08	0.23
1200	1205	1210	1215	1220	1225	1230
45	94	755	12	201	455	11
459945	686813	8883817	118012	1764007	5564755	80957
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.08	0.12	1.52	0.02	0.30	0.95	0.01
1235	1240	1260	1265	1270	1275	1280
8	61	151	7	58	65	27
93155	373271	1633132	58125	732027	824139	190316
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.06	0.28	0.01	0.13	0.14	0.03
1305	1310	1315	1320	1325	1330	1335
755	64	37	251	28	95	83
8980054	826732	469491	3145484	368881	1173345	1143853
100.00	100.00	100.00	100.00	100.00	100.00	100.00
1.54	0.14	0.08	0.54	0.06	0.20	0.20
1340	1345	1350	1355	1360	1365	1400
73	171	58	701	120	227	326
887296	2225811	860978	9850320	1458227	3179175	5431980
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.15	0.38	0.15	1.69	0.25	0.54	0.93
1405	1410	1415	1420	1425	1430	1435
106	122	287	131	105	23	35
1536342	1876389	3723318	1637164	1510473	305881	601652
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.26	0.32	0.64	0.28	0.26	0.05	0.10
1440	1445	1450	1455	1460	1470	1475
1115	726	116	1198	12	27	87
15122344	10111032	1913746	17359740	196502	348219	1359051
100.00	100.00	100.00	100.00	100.00	100.00	100.00
2.59	1.73	0.33	2.97	0.03	0.06	0.23
1480	1485	1500	1505	1510	1515	1520
53	19	24	22	63	21	53
728940	255580	338457	294775	836801	253328	659122
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.12	0.04	0.06	0.05	0.14	0.04	0.11

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1525	1530	1535	1540	1545	1550	1565
148	135	53	1	224	754	39
2231034	2135154	613131	10509	3013453	8952221	431878
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.38	0.37	0.10	0.00	0.52	1.51	0.07
1570	1580	1585	1590	1595	1600	1605
47	28	26	47	201	39	223
548084	357551	265318	515600	2403244	391521	2168381
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.09	0.06	0.05	0.09	0.41	0.07	0.37
1610	1615	1640	1645	1650	1655	1660
18	91	75	186	196	65	72
187902	1020367	814095	1996925	2480070	696428	1073353
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.17	0.14	0.34	0.42	0.12	0.18
1665	1670	1675	1680	1700	1705	1710
56	40	69	16	49	32	34
631964	695120	803196	162450	665520	350750	446882
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.11	0.12	0.14	0.03	0.11	0.06	0.08
1715	1720	1730	1735	1740	1745	1750
67	11	71	49	47	49	104
807732	129474	834934	725978	585166	754035	1535503
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.14	0.02	0.14	0.12	0.10	0.13	0.26
1755	1760	1765	1770	1775	1790	1795
148	146	147	29	61	21	7
1900757	1764734	2056946	320629	787093	346275	81249
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.33	0.30	0.35	0.05	0.13	0.06	0.01
1800	1805	1810	1815	1820	1825	1830
74	190	36	52	5	25	277
788050	1923052	422328	556259	86145	285977	5226258
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.13	0.33	0.07	0.10	0.01	0.05	0.89
1835	1840	1845	1850	1855	1860	1865
80	94	81	154	130	623	307
1280567	1125657	1073986	2324557	1725873	10522013	3819382
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.22	0.19	0.18	0.40	0.30	1.80	0.65

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1870	1875	1880	1885	1890	1895	1900
144	114	66	40	41	3	424
2281732	1616818	1140972	574363	751091	104023	4799139
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.39	0.28	0.20	0.10	0.13	0.02	0.02
1905	1910	1915	1920	1925	1930	1935
955	458	134	469	489	119	343
11811306	5049842	1602684	5314431	5499994	1523359	4573643
100.00	100.00	100.00	100.00	100.00	100.00	100.00
2.02	0.86	0.27	0.91	0.94	0.26	0.78
1940	1945	1950	1955	1960	1965	1970
377	204	122	104	271	34	114
4317920	2165740	1382619	1235598	3428154	442786	1491075
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.74	0.37	0.24	0.21	0.59	0.08	0.25
1975	1980	2005	2010	2015	2020	2025
44	16	5	21	105	9	30
575620	152970	65406	279954	1457603	171265	470087
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.10	0.03	0.01	0.05	0.25	0.03	0.08
2030	2035	2100	2105	2110	2115	2120
7	12	27	18	43	45	14
64866	130835	270337	197131	484930	467108	194127
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.02	0.05	0.03	0.08	0.08	0.03
2125	2130	2135	2140	2145	2200	2205
31	63	29	14	41	75	307
272529	554207	323726	168916	512593	843550	3831896
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.09	0.06	0.03	0.09	0.14	0.66
2210	2215	2250	2255	2300	2305	2310
57	40	46	6	3	62	33
453120	463813	465806	59178	26786	334556	170031
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.08	0.08	0.08	0.01	0.00	0.06	0.03
2315	2320	2330	2350	2355	2360	2365
13	29	4	10	10	13	10
61250	247516	32167	66655	66845	116573	147048
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.04	0.01	0.01	0.01	0.02	0.03

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2370	2400	2405	2410	2415	2420	2450
45	36	23	92	59	32	50
418737	472751	316093	1501174	761401	443585	734917
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.07	0.08	0.05	0.26	0.13	0.08	0.13
2455	2500	2505	2510	2515	2520	2525
14	7	16	657	135	28	25
216225	56843	124309	7662992	1417818	257808	255468
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.04	0.01	0.02	1.31	0.24	0.04	0.04
2530	2535	2540	2545	2550	2600	2605
7	17	26	79	55	89	28
96504	213980	186012	691064	715423	1261936	362722
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.04	0.03	0.12	0.12	0.22	0.06
2610	2620	2625	2630	2635	2640	2650
71	7	85	66	39	22	44
1041806	49333	1084702	909352	587720	249592	481098
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.18	0.01	0.19	0.16	0.10	0.04	0.08
2655	2660	2665	2670	2675	2700	2705
9	124	36	27	4	19	48
98035	1088543	355652	296660	34088	200132	464253
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.19	0.06	0.05	0.01	0.03	0.08
2710	2715	2720	2725	2730	2735	2800
45	13	6	30	29	9	84
413905	74521	44910	384936	360674	120889	1022090
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.07	0.01	0.01	0.07	0.06	0.02	0.17
2805	2810	2815	2820	2825	2900	2905
3	1	36	22	95	193	42
35759	22700	542088	371155	1231817	2746121	539037
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.00	0.09	0.06	0.21	0.47	0.09
2910	2955	2960	3100	3105	3200	3205
58	5	27	2930	349	147	1479
611024	34071	297124	38456535	5049463	2105903	20503555
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.10	0.01	0.05	6.58	0.86	0.36	3.51

## 1978 NAMCS Micro-Data Tape Documentation

3215	3220	3225	3230	3235	3240	3300
119	54	305	518	85	31	18
1743947	495779	3765129	6336982	1065657	216560	262075
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.30	0.08	0.64	1.08	0.18	3.04	0.04
3305	3310	3315	3320	3325	3330	3335
17	58	86	707	35	20	15
261859	1009973	1107339	8706132	438996	234424	170862
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.34	0.17	0.19	1.49	0.08	3.04	3.33
3340	3345	3350	3360	3365	3370	3400
1	9	11	11	287	105	309
19003	89553	107405	200412	3884412	1263974	4899014
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.02	0.02	0.03	0.66	0.22	0.84
3405	3410	3500	3505	3510	3515	3520
8	23	166	49	86	24	18
84828	187966	1843923	641575	1198231	352634	191600
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.03	0.32	0.11	0.21	0.06	0.03
3525	4100	4110	4115	4200	4205	4400
22	360	221	133	93	1346	13
350033	5605162	2803062	1619387	1157916	14590512	210421
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.06	2.96	0.48	0.28	0.20	2.50	0.04
4410	4415	4425	4500	4505	4510	4515
123	5	71	2	8	5	142
783661	56701	724873	22375	108845	104710	1807054
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.13	0.01	0.12	0.00	0.02	0.02	0.31
4520	4525	4530	4535	4540	4545	4550
40	49	8	11	59	48	2
506374	690223	93538	106776	767793	592092	13633
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.09	0.12	0.02	0.02	0.13	0.10	0.00
4555	4560	4600	4605	4700	4705	4710
280	27	190	103	1	141	75
3367963	446632	2482351	1428775	3789	690977	408741
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.58	0.08	0.42	0.24	0.00	0.12	0.07

## 1978 NAMCS Micro-Data Tape Documentation

4715	4720	4725	4730	4735	4740	4800
40	40	41	54	3	14	1251
202144	212817	255857	265469	19457	79480	12947663
100.00	100.00	100.00	100.00	100.00	100.00	100.00
1.03	2.04	0.04	0.05	0.00	3.01	2.22
5005	5010	5015	5020	5025	5030	5035
18	6	23	54	35	14	58
260922	47502	262450	527743	372655	127003	627064
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.04	0.01	0.04	0.09	0.26	0.02	0.11
5040	5045	5050	5105	5110	5115	5120
35	30	41	7	31	12	37
314117	323894	340625	63288	383350	212154	545229
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.06	0.06	0.01	0.07	0.04	0.09
5125	5130	5205	5210	5215	5220	5225
3	21	19	51	2	38	107
46951	245556	303107	711321	16128	576935	1681483
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.04	0.05	0.12	0.00	0.10	0.29
5230	5305	5310	5315	5320	5325	5405
39	2	1	15	8	7	4
509612	27597	25231	218136	96824	120162	60959
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.09	0.00	0.00	0.04	0.02	0.02	0.01
5410	5415	5420	5425	5430	5505	5510
11	5	18	8	13	70	43
120330	48298	192344	97807	239544	828036	532761
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.01	0.03	0.02	0.04	0.14	0.09
5515	5520	5525	5530	5535	5540	5545
39	12	2	35	37	32	53
643133	129399	49555	438387	514694	385620	780418
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.11	0.02	0.01	0.08	0.09	0.07	0.13
5550	5555	5560	5565	5570	5575	5600
17	23	8	16	133	55	64
287745	317833	101460	268470	1662307	455608	822936
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.05	0.02	0.05	0.28	0.08	0.14



## 1978 NAMCS Micro-Data Tape Documentation

5605	5610	5615	5620	5705	5710	5715
2	16	3	20	12	4	45
30591	261335	38899	297532	154292	47343	818314
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.04	0.01	0.05	0.03	0.01	0.14
5720	5750	5755	5760	5800	5805	5810
23	10	32	39	28	45	77
332189	128878	430706	588033	344930	894316	1043609
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.06	0.02	0.07	0.10	0.06	0.15	0.18
5815	5820	5830	5840	5900	5905	5910
11	11	2	4	3	17	2
163080	58319	22116	22529	30143	213451	6304
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.01	0.00	0.00	0.01	0.04	0.00
5915	5925	6100	6105	6110	6200	6300
1	6	27	6	14	18	50
11233	86695	289938	75007	192465	288690	761386
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.01	0.05	0.01	0.03	0.05	0.13
6400	6500	6600	6700	7100	7105	7110
36	6	11	118	241	2	204
385589	106138	111091	1411477	2698325	23068	2040145
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.07	0.02	0.02	0.24	0.46	0.00	0.35
7115	7120	7125	7130	7135	7140	8990
101	30	62	19	63	47	85
1480698	425948	663254	157026	669070	477438	732025
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.25	0.07	0.11	0.03	0.11	0.08	0.13
8997	8998	8999				
350	128	51				
4695465	1392378	471791				
100.00	100.00	100.00				
0.80	0.24	0.08				

## PHYSICIAN'S DIAGNOSIS

(Consult reference 4 and notes on pages 6 and 19 of these documentation.)

		ALL		1000		
			47291		194	
		584498540		2634164		
		100.00		100.00		
		100.00		0.45		
1001	1003	1005	1006	1008	1009	1011
1	1	3	1	54	324	10
7390	23775	31918	8300	1009074	4109737	105336
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.00	0.01	0.00	0.17	0.70	0.02
1012	1016	1017	1031	1034	1035	1036
5	1	5	1	114	2	1
73597	5875	42423	3416	1607298	21420	20277
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.00	0.01	0.00	0.27	0.00	0.00
1037	1038	1039	1044	1045	1052	1053
1	3	40	1	1	20	52
17073	46533	781837	3821	3868	285360	753668
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.01	0.13	0.00	0.00	0.05	0.13
1054	1055	1056	1057	1065	1068	1070
67	5	11	13	1	1	11
973120	95528	167718	145998	22652	12796	146495
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.17	0.02	0.03	0.02	0.00	0.00	0.03
1071	1072	1074	1075	1078	1079	1091
1	2	7	48	7	365	1
8321	28872	70851	779891	101408	4945307	26914
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.00	0.01	0.13	0.02	0.85	0.00
1096	1097	1098	1099	1110	1111	1112
2	5	33	68	77	19	132
7642	54160	421703	812408	1201141	206272	1827391
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.01	0.07	0.14	0.21	0.04	0.31

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1113	1114	1115	1117	1127	1130	1131
1	3	4	12	5	2	44
3868	33615	34096	128437	66527	19969	594230
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.01	0.01	0.02	0.01	0.00	0.10
1132	1133	1134	1135	1136	1140	1141
5	34	4	12	20	2	4
53655	398415	62708	131351	362875	14994	31532
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.07	0.01	0.02	0.06	0.00	0.01
1142	1143	1144	1145	1146	1147	1150
1	1	1	6	4	2	3
19003	5739	12078	62532	49945	10001	28462
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.00	0.00	0.01	0.01	0.00	0.00
1151	1153	1154	1155	1156	1157	1158
12	93	14	1	1	3	3
92593	915386	146971	3821	4262	35252	25180
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.16	0.03	0.00	0.00	0.01	0.00
1159	1160	1161	1152	1170	1171	1172
2	4	6	53	7	4	26
15804	54548	68993	601976	40087	33826	204389
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.01	0.01	0.10	0.01	0.01	0.03
1173	1174	1180	1182	1183	1184	1185
111	173	11	15	13	3	49
1565812	1665228	144575	244719	138957	30211	477197
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.27	0.28	0.02	0.04	0.02	0.01	0.08
1186	1188	1189	1190	1191	1192	1193
4	27	14	1	3	11	9
31088	329878	120721	22069	15262	55550	89262
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.06	0.02	0.00	0.00	0.01	0.02
1195	1196	1197	1198	1199	1200	1201
19	2	13	17	58	8	18
287555	22240	152956	208205	572250	65491	153696
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.00	0.03	0.04	0.10	0.01	0.03

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1202	1203	1204	1205	1207	1208	1209
28	18	20	17	24	11	1
272578	134559	167230	109791	174045	108536	5938
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.02	0.03	0.02	0.03	0.02	0.00
1210	1211	1212	1213	1214	1215	1216
3	29	2	10	53	7	71
26840	227998	31780	65284	486251	141894	1005070
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.04	0.01	0.01	0.08	0.02	0.17
1217	1218	1219	1220	1221	1222	1224
15	48	19	46	16	1	1
91578	566190	221044	661009	233847	9858	10276
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.10	0.04	0.11	0.04	0.00	0.00
1225	1226	1227	1228	1230	1231	1232
13	3	61	21	8	1	16
109649	22383	762974	299178	54303	4268	162067
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.00	0.13	0.05	0.01	0.00	0.03
1233	1234	1235	1236	1237	1238	1239
23	7	2	2	13	12	43
256832	85532	14636	32785	132201	82271	454062
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.04	0.01	0.00	0.01	0.02	0.01	0.08
1240	1241	1242	1243	1244	1245	1246
15	31	47	1	119	12	14
163408	335954	587340	4092	1662895	153149	137154
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.06	0.10	0.00	0.28	0.03	0.02
1250	1251	1252	1253	1255	1256	1257
682	31	5	2	16	15	1
8649312	438574	53752	21203	92518	217249	5875
100.00	100.00	100.00	100.00	100.00	100.00	100.00
1.48	0.08	0.01	0.00	0.02	0.04	0.00
1258	1263	1265	1266	1268	1269	1270
60	3	2	5	1	36	1
1205061	23783	32055	86028	15782	399443	2702
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.21	0.00	0.01	0.01	0.00	0.07	0.00

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1271	1272	1273	1274	1275	1277	1278
2 7636 100.00 0.00	11 150262 100.00 0.03	28 326924 100.00 0.06	82 805427 100.00 0.14	7 127048 100.00 0.02	485 6291803 100.00 1.09	5 104529 100.00 0.02
1279	1280	1281	1282	1284	1285	1286
148 3123466 100.00 0.53	55 815620 100.00 0.14	35 493378 100.00 0.08	9 107714 100.00 0.02	5 28892 100.00 0.00	132 1337938 100.00 0.23	2 15131 100.00 0.00
1287	1288	1299	1290	1292	1293	1294
7 71207 100.00 0.01	2 17816 100.00 0.00	53 637132 100.00 0.11	5 56389 100.00 0.01	1 1435 100.00 0.00	1 6096 100.00 0.00	3 11087 100.00 0.00
1295	1296	1297	1298	1299	1300	1301
407 2118814 100.00 0.36	216 1415930 100.00 0.24	13 96624 100.00 0.02	9 32500 100.00 0.01	27 184319 100.00 0.03	1733 11556110 100.00 1.78	427 2216776 100.00 0.38
1302	1303	1304	1305	1306	1307	1308
38 204716 100.00 0.04	55 458195 100.00 0.08	24 158538 100.00 0.03	88 773604 100.00 0.13	140 1297588 100.00 0.22	264 1521748 100.00 0.26	85 531853 100.00 0.09
1309	1311	1313	1315	1320	1323	1330
17 143760 100.00 0.02	2 27950 100.00 0.00	1 14321 100.00 0.00	6 62002 100.00 0.01	7 88756 100.00 0.02	3 11416 100.00 0.00	7 66584 100.00 0.01
1331	1333	1340	1341	1342	1343	1344
2 27803 100.00 0.00	1 3789 100.00 0.00	32 275017 100.00 0.05	2 18870 100.00 0.00	50 511375 100.00 0.09	8 57089 100.00 0.01	20 213204 100.00 0.04
1345	1346	1347	1348	1349	1350	1351
40 345372 100.00 0.06	95 1154221 100.00 0.20	24 175982 100.00 0.03	8 78079 100.00 0.01	6 30600 100.00 0.01	21 198550 100.00 0.03	24 146730 100.00 0.03

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1352	1353	1354	1355	1356	1357	1358
12	62	5	68	2	125	1
170360	751221	21483	739336	16632	1070909	5025
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.13	0.00	0.13	0.05	0.18	0.00
1360	1361	1362	1363	1364	1366	1367
215	28	22	67	31	9	4
2478566	278091	268119	901359	404104	124338	41325
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.42	0.05	0.05	0.15	0.07	0.02	0.01
1368	1369	1370	1371	1372	1373	1374
22	22	806	7	8	75	251
291397	329333	10250511	83082	109858	953073	3390601
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.06	1.75	0.01	0.02	0.16	0.58
1375	1376	1377	1378	1379	1380	1381
208	16	93	277	5	148	924
2734785	250418	1167543	3786669	47703	2006350	13349801
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.47	0.04	0.20	0.65	0.01	0.34	2.28
1382	1383	1384	1385	1386	1387	1388
1	4	105	20	7	179	1
43971	65637	1403347	152671	70640	2408032	2679
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.01	0.24	0.03	0.01	0.41	0.00
1389	1390	1391	1392	1394	1395	1398
59	7	1	1	28	21	33
745893	60180	11453	9681	336035	211603	371134
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.13	0.01	0.00	0.00	0.06	0.04	0.06
1400	1401	1402	1403	1404	1410	1411
6	2006	64	10	5	76	51
60875	24085686	725331	87918	25777	968501	641198
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	4.12	0.12	0.02	0.00	0.17	0.11
1412	1413	1420	1421	1422	1423	1424
1008	130	2	1	1	5	15
11295002	1673690	32426	8059	18121	48417	159842
100.00	100.00	100.00	100.00	100.00	100.00	100.00
1.93	0.29	0.01	0.00	0.00	0.01	0.03

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1425	1426	1427	1428	1429	1430	1431
8	4	284	4	36	4	5
155893	58953	3313735	36276	546623	46230	79743
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.01	0.57	0.01	0.09	0.01	0.01
1432	1433	1434	1435	1436	1437	1438
18	13	3	18	60	48	22
155164	111538	63715	170516	782049	671736	189620
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.02	0.01	0.03	0.13	0.11	0.03
1440	1441	1442	1443	1444	1445	1446
49	12	6	42	26	11	11
739536	89984	54955	502915	278445	139463	135336
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.13	0.02	0.01	0.09	0.05	0.02	0.02
1447	1448	1450	1451	1453	1454	1455
24	5	19	102	11	102	190
170260	79205	243865	1210788	121669	987777	1854534
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.01	0.04	0.21	0.02	0.17	0.32
1456	1457	1458	1460	1461	1462	1463
12	7	84	136	41	640	401
106582	112782	1126244	1485306	624393	9482384	5565844
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.02	0.19	0.25	0.11	1.62	0.95
1464	1465	1466	1470	1471	1472	1473
93	1181	203	266	3	19	5
1294218	16486827	2525199	4153151	55553	224248	115846
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.22	2.82	0.43	0.71	0.01	0.04	0.02
1480	1481	1482	1483	1485	1486	1490
15	29	1	7	27	147	556
271532	280452	4948	78602	381427	1944099	8184154
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.05	0.00	0.01	0.07	0.33	1.40
1491	1492	1493	1500	1501	1502	1503
47	87	337	49	7	79	327
499018	1122572	5575007	640020	92734	1459314	4657239
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.09	0.19	0.95	0.11	0.02	0.25	0.80

## 1978 NAMCS Micro-Data Tape Documentation

1504	1505	1506	1507	1508	1510	1511
29	9	2	609	60	1	53
363707	156287	20180	11035252	859715	15744	440612
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.06	0.33	0.00	1.89	0.15	0.00	0.08
1512	1513	1514	1515	1517	1518	1519
10	1	14	5	9	11	221
83210	3489	190802	73270	107701	143312	2592427
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.00	0.03	0.01	0.02	0.02	0.44
1520	1521	1522	1523	1524	1525	1526
13	4	14	12	7	4	6
112374	57051	238198	143956	106846	53862	78051
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.01	0.04	0.02	0.02	0.01	0.01
1527	1528	1529	1530	1531	1532	1533
24	45	11	57	50	84	85
281540	560965	116543	715598	556234	926024	1146171
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.05	0.11	0.02	0.12	0.10	0.16	0.20
1534	1535	1536	1537	1540	1541	1542
1	171	59	2	38	15	2
4473	2076857	746222	33661	383011	216633	28482
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.36	0.13	0.01	0.07	0.04	0.00
1550	1551	1552	1553	1560	1561	1562
152	159	3	4	17	3	82
1325268	1815863	17799	40909	188145	26967	960501
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.23	0.31	0.00	0.01	0.03	0.00	0.16
1563	1564	1565	1566	1567	1568	1569
54	158	47	19	4	8	101
528383	1787959	388343	206334	55823	87003	1114978
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.09	0.31	0.07	0.04	0.01	0.01	0.19
1571	1573	1574	1575	1576	1577	1580
52	38	72	57	31	13	4
616794	405581	710499	688522	339602	121284	16128
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.11	0.07	0.12	0.12	0.06	0.02	0.00



## 1978 NAMCS Micro-Data Tape Documentation

1581	1582	1583	1584	1590	1591	1592
3	10	13	1	45	2	45
43022	104683	127106	5814	664043	7836	615219
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.02	0.02	0.30	0.11	0.00	0.11
1593	1594	1595	1596	1597	1598	1599
101	14	294	63	83	73	267
1135834	103664	3898054	605854	848547	756793	3214599
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.20	0.02	0.67	0.10	0.15	0.13	0.55
1600	1601	1602	1603	1604	1605	1606
117	167	7	8	40	10	17
1111248	1871861	104323	64614	397193	100515	145343
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.19	0.32	0.02	0.01	0.07	0.02	0.02
1607	1610	1611	1613	1614	1615	1616
45	160	98	2	17	24	69
558956	1611959	1056133	16346	174790	320535	948210
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.10	0.28	0.18	0.00	0.03	0.05	0.16
1620	1621	1622	1623	1624	1625	1626
78	43	232	67	6	29	321
917327	654090	3053165	758724	66629	363733	4235868
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.16	0.11	0.52	0.13	0.01	0.06	0.72
1627	1628	1629	1630	1631	1632	1633
203	40	42	2	9	13	4
3000638	500315	567225	17045	76872	153396	52002
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.51	0.09	0.10	0.00	0.01	0.03	0.01
1634	1635	1637	1638	1640	1641	1642
38	4	5	3	8	2	18
492566	74154	56193	30834	100620	10400	204134
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.08	0.01	0.01	0.01	0.02	0.00	0.03
1643	1644	1650	1651	1653	1670	1677
8	13	3	2	2	1	2
114665	159820	78549	25690	43905	8399	30730
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.03	0.01	0.00	0.01	0.00	0.01

## 1978 NAMCS Micro-Data Tape Documentation

1678	1680	1681	1682	1683	1684	1685
3	42	43	151	1	56	40
33127	460924	529192	1768112	10155	951109	349017
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.08	0.09	0.30	0.00	0.19	0.06
1686	1690	1691	1692	1693	1694	1695
78	42	34	703	11	3	38
1009232	829199	676924	10997965	194666	85469	744925
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.17	0.14	0.12	1.88	0.03	0.01	0.13
1696	1697	1698	1700	1701	1702	1703
69	8	62	16	108	15	44
1192753	101411	1114598	233472	2046614	201216	547900
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.20	0.02	0.19	0.04	0.35	0.03	0.09
1704	1705	1706	1707	1708	1709	1710
44	29	530	84	72	123	15
818317	517773	8655513	931039	1029976	1521643	190309
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.14	0.09	1.48	0.16	0.18	0.26	0.03
1711	1712	1713	1714	1715	1716	1717
1	170	465	11	312	4	255
3821	2187347	5621327	114600	4461056	93155	2889151
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.37	0.96	0.02	0.76	0.02	0.49
1718	1720	1721	1722	1723	1724	1725
1	17	6	35	53	27	209
10897	294729	79882	364302	722938	354231	1895819
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.05	0.01	0.06	0.12	0.06	0.32
1726	1727	1728	1729	1730	1731	1732
7	5	212	141	16	467	8
96259	56222	2041558	1591695	194735	5566810	91381
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.01	0.35	0.27	0.03	0.95	0.02
1733	1734	1735	1736	1737	1738	1741
95	20	59	9	6	67	3
1162687	201247	648992	69525	88223	780889	40033
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.20	0.03	0.11	0.01	0.02	0.13	0.01

## 1978 NAMCS Micro-Data Tape Documentation

1743	1744	1745	1746	1747	1748	1749
2	16	10	13	8	7	3
22707	210703	99788	111948	53388	83692	28466
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.04	0.02	0.02	0.01	0.01	0.00
1750	1751	1752	1753	1754	1755	1756
3	3	27	5	30	17	24
42195	21010	256357	51550	268149	155235	297771
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.00	0.04	0.01	0.05	0.03	0.05
1757	1758	1759	1771	1773	1775	1777
66	3	4	1	1	1	3
889309	67358	51249	12886	13517	3485	21221
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.15	0.01	0.01	0.00	0.00	0.00	0.00
1778	1779	1780	1781	1782	1783	1784
8	2	235	61	139	177	44
93647	17636	2631267	826621	1647168	2315603	586979
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.00	0.45	0.14	0.28	0.40	0.10
1785	1786	1787	1788	1789	1790	1791
149	108	89	139	54	328	122
1758000	1180477	1113398	2405821	623025	3019143	1657846
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.30	0.20	0.19	0.41	0.11	0.52	0.28
1792	1793	1794	1796	1801	1802	1803
3	411	9	87	6	36	5
38407	5010769	127338	1286008	41857	538496	22833
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.86	0.02	0.22	0.01	0.09	0.00
1805	1806	1807	1808	1809	1810	1811
44	1	41	5	1	40	4
427612	4316	448154	71672	5242	449006	68110
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.07	0.00	0.08	0.01	0.00	0.08	0.01
1812	1813	1814	1815	1816	1817	1818
53	129	53	35	84	1	6
586097	1500975	536751	466781	910164	8329	65347
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.10	0.26	0.09	0.08	0.16	0.00	0.01

## 1978 NAMCS Micro-Data Tape Documentation

1820	1821	1822	1823	1824	1825	1826
16	19	16	65	88	66	12
174189	193539	208201	624640	1062974	764454	155606
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.03	0.03	0.04	0.11	0.18	0.13	0.03
1827	1828	1829	1831	1832	1833	1834
4	1	17	21	6	1	4
35764	12407	197679	205315	78926	10139	29004
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.10	0.03	0.04	0.01	0.00	0.00
1835	1836	1837	1838	1839	1840	1841
2	71	1	1	56	58	8
19221	714801	60919	60919	439888	724038	89319
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.12	0.01	0.01	0.08	0.12	0.02
1842	1843	1844	1845	1846	1847	1848
42	4	92	121	217	454	158
486775	36800	914500	1537820	3049286	5776793	2046124
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.08	0.01	0.16	0.26	0.52	0.99	0.35
1850	1851	1852	1854	1860	1862	1863
52	4	4	18	1	1	1
437913	26099	22262	153431	18457	14155	3868
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.07	0.00	0.00	0.03	0.00	0.00	0.00
1865	1866	1870	1871	1872	1873	1874
1	1	12	2	13	127	2
11472	8364	113225	32222	146015	1694320	48049
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.00	0.02	0.01	0.02	0.29	0.01
1875	1876	1877	1878	1879	1880	1881
4	1	2	1	5	4	21
84797	25691	27490	6878	49415	57435	231774
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.01	0.00	0.00	0.00	0.01	0.01	0.04
1882	1883	1884	1885	1886	1887	1890
45	132	15	3	16	1	4
683206	1975453	213203	67446	157906	8112	49823
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.12	0.34	0.04	0.01	0.03	0.00	0.01



## 1978 NAMCS Micro-Data Tape Documentation

1973	1975	1977	1984	1987	1989	1990
9	1	37	1	1	24	7
87708	19621	445569	9215	10319	383736	18601
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.02	0.00	0.09	0.00	0.00	0.07	0.00
1991	1992	1993	1994	1995	1996	1997
3	2	4	5	1	129	12
17485	22258	40231	47199	11356	1487325	121996
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.00	0.00	0.01	0.01	0.00	0.25	0.02
1998	1999	2000	2001	2002	2003	2004
30	3	3132	13	281	34	11
323729	27145	41317062	158081	3993131	531345	125252
100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.06	0.00	7.07	0.03	0.68	0.09	0.02
2006	2007	2008	2009	2010	2011	2012
1627	133	1	339	1002	2	2
22609553	1880332	15032	4153008	10754330	10050	33610
100.00	100.00	100.00	100.00	100.00	100.00	100.00
3.87	0.32	0.00	0.71	1.84	0.00	0.01
2099						
899						
10790568						
100.00						
1.85						

## 1978 NAMCS MICRO-DATA TAPE DOCUMENTATION

## APPENDIX

## Sample Errors and Rounding of Numbers

The standard error is primarily a measure of the sampling variability that occurs by chance because only a sample, rather than the entire universe, is surveyed. The relative standard error of an estimate is obtained by dividing the standard error of the estimate by the estimate itself and is expressed as a percentage of the estimate. Relative standard errors of selected aggregate statistics are shown in tables I and II. The standard errors for estimated percentages of visits are shown in tables III and IV.

Table I. Approximate relative standard errors of estimated number of office visits based on all physician specialties: NAMCS, 1978

Estimated number of office visits in thousands	Relative standard error in percent
500.....	25.8
1,000.....	18.4
2,000.....	13.3
5,000.....	9.0
10,000.....	7.0
20,000.....	5.7
50,000.....	4.8
100,000.....	4.4
500,000.....	4.1

*Example of use of table:* An aggregate of 75,000,000 visits has a relative standard error of 4.6 percent or a standard error of 3,450,000 visits (4.6 percent of 75,000,000).

Table II. Approximate relative standard errors of estimated number of office visits based on an individual physician specialty: NAMCS, 1978

Estimated number of office visits in thousands	Relative standard error in percent
500.....	28.5
1,000.....	21.0
2,000.....	15.9
5,000.....	11.9
10,000.....	10.2
20,000.....	9.2
50,000.....	8.6
100,000.....	8.3
200,000.....	8.2

*Example of use of table:* An aggregate of 15,000,000 visits has a relative standard error of 9.7 percent or a standard error of 1,455,000 visits (9.7 percent of 15,000,000).

Table III. Approximate standard errors of percent of estimated numbers of office visits based on all physician specialties: NAMCS, 1978

Base of percent (number of office visits in thousands)	Estimated percent					
	1 or 99	5 or 95	10 or 90	20 or 80	30 or 70	50
	Standard error in percentage points					
500.....	2.5	5.5	7.6	10.2	11.7	12.7
1,000.....	1.8	3.9	5.4	7.2	8.2	9.0
2,000.....	1.3	2.8	3.8	5.1	5.8	6.4
5,000.....	0.8	1.8	2.4	3.2	3.7	4.0
10,000.....	0.6	1.2	1.7	2.3	2.6	2.8
20,000.....	0.4	0.9	1.2	1.6	1.8	2.0
50,000.....	0.3	0.6	0.8	1.0	1.2	1.3
100,000.....	0.2	0.4	0.5	0.7	0.8	0.9
500,000.....	0.1	0.2	0.2	0.3	0.4	0.4

*Example of use of table:* An estimate of 30 percent based on an aggregate of 15,000,000 visits has a standard error of 2.2 percent or a relative standard error of 7.3 percent (2.2 percent ÷ 30 percent).

Table IV. Approximate standard errors of percent of estimated numbers of office visits based on an individual physician specialty: NAMCS, 1978

Base of percent (number of office visits in thousands)	Estimated percent					
	1 or 99	5 or 95	10 or 90	20 or 80	30 or 70	50
	Standard error in percentage points					
500.....	2.7	6.0	8.2	10.9	12.5	13.7
1,000.....	1.9	4.2	5.8	7.7	8.9	9.7
2,000.....	1.4	3.0	4.1	5.5	6.3	6.8
5,000.....	0.9	1.9	2.6	3.5	4.0	4.3
10,000.....	0.6	1.3	1.8	2.4	2.8	3.1
20,000.....	0.4	0.9	1.3	1.7	2.0	2.2
50,000.....	0.3	0.6	0.8	1.1	1.3	1.4
100,000.....	0.2	0.4	0.6	0.8	0.9	1.0
200,000.....	0.1	0.3	0.4	0.5	0.6	0.7

*Example of use of table:* An estimate of 90 percent based on an aggregate of 7,500,000 visits has a standard error of 2.2 percent, or a relative standard error of 2.4 percent (2.2 percent ÷ 90 percent).

## APPENDIX

## Definitions of Certain Terms Used in this Document.

*Office(s).*--Premises that the physician identifies as locations for his ambulatory practice. Responsibility over time for patient care and professional services rendered there generally resides with the individual physician rather than with any institution.

*Visit.*--A direct, personal exchange between ambulatory patient and the physician (or members of his staff) for the purpose of seeking care and rendering health services.

*Ambulatory patient.*--An individual presenting for personal health services, neither bedridden nor currently admitted to any health care institution on the premises.

*Patients.*--Can be classified as either:

*In-scope:* All patients seen by the physician or member of his staff in his office(s).

*Out-of-scope:* Patients seen by the physician in a hospital, nursing home, or other extended care institution, or the patient's home. (Note: if the doctor has a *private* office (which fits definition of "office") located in a hospital, the ambulatory patients seen there would be considered "in-scope.") The following types of patients are also considered out of scope:

patients seen by the physician in any institution (including outpatient clinics of hospitals) for which the institution has the primary responsibility for the care of the patient over time

patients who telephone and receive advice from the physician

patients who come to the office only to leave a specimen, pick up insurance forms, or pay their bills

patients who come to the office only to pick up medications previously prescribed by the physician.

*Physician.*--Can be classified as either:

*In-Scope:* All duly licensed doctors of medicine and doctors of osteopathy currently in practice who spend some time in caring for ambulatory patients at an office location.



*Out-of-scope:* Those physicians who treat patients only indirectly, including specialists in anesthesiology, pathology, forensic pathology, radiology, therapeutic radiology, and diagnostic radiology, and the following physicians.

physicians in military service

physicians who treat patients only in an institutional setting (e.g., patients in nursing homes and hospitals)

physicians employed full time by an industry or institution and having no private practice (e.g., physicians who work for the VA, the Ford Motor Company, etc.)

physicians who spend no time seeing ambulatory patients (e.g., physicians who only teach, are engaged in research, or are retired).

*Physician specialty.*--Principal specialty (including general practice) as designated by the physician at the time of the survey. Those physicians for whom a specialty was not obtained were assigned the principal specialty recorded in the Master Physician files maintained by the AMA or AOA.

*Region of practice location.*--The four geographic regions, excluding Alaska and Hawaii, which correspond to those used by the U.S. Bureau of the Census, are as follows:

<u>Region</u>	<u>States Included</u>
Northeast.....	Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont
North Central.....	Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska North Dakota, Ohio, South Dakota, Wisconsin
South.....	Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia
West.....	Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

*Metropolitan status of practice location.*--Physician's practice is classified by its location in metropolitan or nonmetropolitan areas. Metropolitan areas are standard metropolitan statistical areas (SMSA's) as defined by the U.S. Office of Management and Budget, and the Bureau of the Census.

The definition of an individual SMSA involves two considerations: first, a city or cities of specified population which constitute the central city and identify the county in which it is located as the central county; second, economic and social relationships with "contiguous" counties which are metropolitan in character, so that the periphery of the specific metropolitan area may be determined. SMSA's may cross State lines. In New England SMSA's consist of cities and towns, rather than counties.

## 1978 NAMCS USER QUESTIONNAIRE

In order to improve the NCHS Micro-Data Tape Release program, we would appreciate your assistance in regard to the following questionnaire.

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Date of tape purchase: \_\_\_\_\_  
Type of organization (university, insurance, etc.): \_\_\_\_\_

1. Have you used this tape? (If not, please indicate why.)
  
2. Did you have any computer problems using the data?
  
3. Did you have any analytic problems with the data?
  
4. What output was produced using the tape?
  
5. How was this output used?
  
6. How was the overall quality of the documentation?
  
7. Did you find the explanation of the survey helpful? Was it clear, concise, etc.?
  
8. Was the description of the tape record format easy to use? Were the item descriptions understandable? Did you find any errors?
  
9. Do you have any other comments or complaints?

Return this questionnaire to the address on back. Please feel free to include additional comments. Thank you very much for your assistance.

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ASSOCIATE DIRECTOR  
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NATIONAL CENTER FOR HEALTH STATISTICS  
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