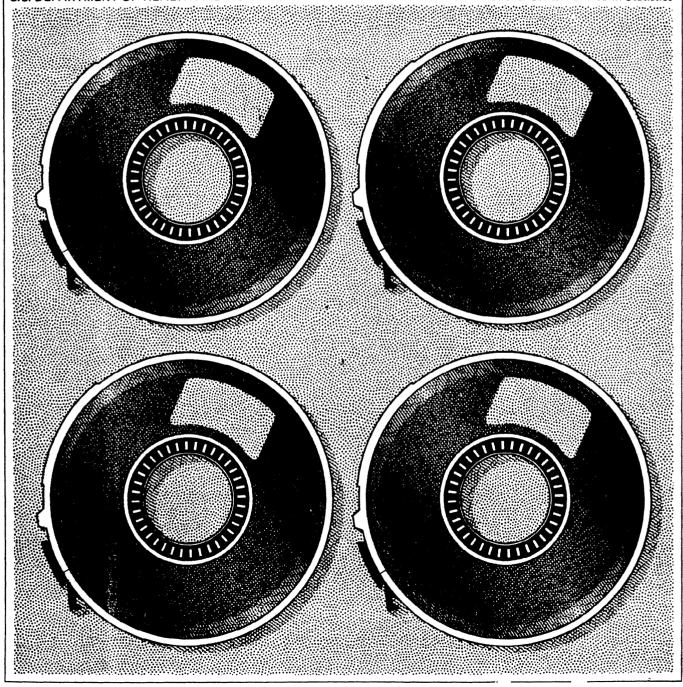
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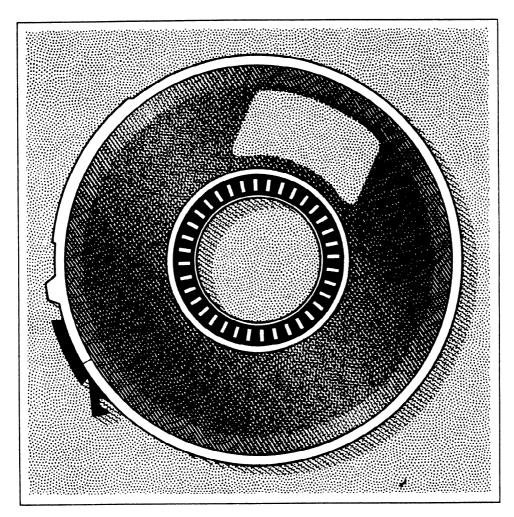
1980 National Ambulatory Medical Care Survey for Drug Mentions

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES ● Public Health Service ● National Center for Health Statistics



Public Use Data Tape Documentation

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service
National Center for Health Statistics

Hyattsville, Maryland December 1982

ABSTRACT

This report provides documentation for users of the 1980 National Ambulatory Medical Care Survey (NAMCS) Micro-Data Tape for Drug Mentions. (Documentation of the 1980 NAMCS Micro-Data Tape for Patient visits is contained in a separate report.) 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, medical 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 the document.

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INTRODUCTION

The NAMCS is a national sample survey of patient visits to physicians' offices. As in previous years, patient visit data were obtained in 1980 through use of a patient encounter form (figure 3, page 10) completed by physicians for a sample of their patient visits. In 1980, the NAMCS encounter form included a new question, item 11, which asked for a listing of all drugs/medications ordered, administered or provided during the visit. To facilitate analysis of these drug data, a data tape has been prepared which includes a separate record for each drug entered on each sample encounter form. This tape, called the drug mention tape, contains information on 51,372 drugs mentioned in the national sample of 46,081 patient visits.

The information contained in the drug mention tape is derived from two major sources. Patient visit and physician characteristics are derived from the 1980 NAMCS. These data are supplemented by drug characteristics obtained from the Drug Product Information File developed and maintained by the American Society of Hospital Pharmacists. The precise data items included in the data set, their sources and definitions, are described below. The coding and classification of the the NAMCS drug data is described in reference 7. Review of this reference material is essential to the proper understanding and interpretation of the NAMCS drug data.

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 references 1 and 2. A brief statement on sampling errors can be found in the appendix of this document.

I. Description of the National Ambulatory Medical Care Survey

HISTORY

The NCHS, in 1967, began exploring possibilities for surveying morbidity in private physicians' offices in order 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. 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 Care 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.

It was evident from the beginning that the checkbox items for drug therapy yielded limited and nonspecific descriptive detail about the role played by drugs in office-based medical care. The NAMCS panel of advisory experts had for several years urged a more ambitious effort, but it was not until 1978 that collecting specific drug data began to appear feasible. In that year, two experimental versions of the Patient Record were tested, each containing a different method of collecting the drug data. In one version, physicians were asked to complete a precoded

checklist item, while in the second version physicians recorded all drugs they provided in an open-ended write-in item. Both versions seemed quite feasible and agreeable to doctors, but the write-in version was chosen to be used in the 1980 survey largely because of its richer potential in providing useful information. The details of this process are contained in reference 7.

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 1980 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 1980 NAMCS were those made by telephone, those made outside of the physician's office, and those made in hospital or institutional settings.

SAMPLING FRAME AND SIZE OF SAMPLE

The sampling frame for the 1980 NAMCS was composed of all physicians contained in the master files maintained by the AMA and AOA as of December 31, 1979, 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 1980 NAMCS sample included 2,959 physicians: 2,891 MD's and 68 doctors of osteopathy. Sample physicians were screened at the time of the survey to assure that they met the above-mentioned criteria; 538 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 2,421 in-scope (eligible) physicians, 1,870 (77.2 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, 250 saw no patients during their assigned reporting period because of vacations, illness, or other reasons for being temporarily not in practice.

Table I. Distribution of physicians in the universe and in the 1980 National Ambulatory Medical Care Survey Sample by physician specialty, United States, January-December 1980.

Physician specialty	Universe	Gross Total	Out of Scope	Net Total	Non- Response	Response	Response Rate
All specialties	227,558	2,959	538	2,421	551	1,870	77.2
General and family							
practice	53,147	676	142	534	146	388	72.7
Medical specialties	66,692	864	144	720	166	554	76.9
Internal medicine	35,199	458	78	380	99	281	73.9
Pediatrics	16,043	204	43	161	22	139	86.3
Other	15,450	202	23	179	45	134	74.9
Surgical specialties	77,625	1,002	103	899	191	708	78.8
General surgery	21,486	269	31	238	67	171	71.8
Obstetrics and gynecology	18,246	247	31	216	32	184	85.2
Other	37,893	486	41	445	92	353	79.3
Other specialties	30,094	417	149	268	48	220	82.1
Psychiatry	16,662	223	51	172	26	146	84.9
Other	13,432	194	98	96	22	74	77.1

 $[\]frac{1}{2}$ Includes doctors of medicine (M.D.'s) and doctors of osteopathy (D.O.'s).

SAMPLE DESIGN

The 1980 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.

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 3.

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



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE
OFFICE OF HEALTH RESEARCH, STATISTICS AND TECHNOLOGY
HYATTSVILLE, MARYLAND 20782

NATIONAL AMBULATORY MEDICAL CARE SURVEY

Date

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.ndorsing Organizations

Imerican Academy of Dermatology

merican Academy of Family Physicians

American Academy
Of Neurology

merican Academy of Orthopaedic Surgeons

merican Academy of Pediatrics

American Association of Neurological Surgeons

American College of Emergency Physicians

merican College of Obstetricians and Gynecologists

merican College of Physicians

American College of Preventive Medicine

merican Osteopathic Association

merican Society of Colon and Rectal Surgeons

merican Psychiatric
Association

American Society of Internal Medicine

merican Society of
Plastic and Reconstructive
Surgeons, Inc.

merican Urological Association

ssociation of American Medical Colleges

National Medical Association John Doe, M.D. 1000 Anywhere Street Sunnyville, Anywhere

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

Frederick A. J. Kingery, M.D.

Adolph Rostenberg, Jr., M.D.



SECRETARY-TREASURER John M. Shaw, M.D.

PRESIDENT

VICE PRESIDENT

ASSISTANT SECRETARY-TREASURER Walter G. Larsen, M.D.

EXECUTIVE SECRETARY Mrs. Betty Suor

AMERICAN ACADEMY of DERMATOLOGY, Inc.

Dear Doctor:

As a result of the need for hard data about skin disease, our specialty has become a part of the Health and Nutrition Examination Survey, which is now underway. Facts gathered by this survey pertain to a population unselected for the dermatological complaint.

Now there is an opportunity to look at dermatological practices in the United States for the kinds of problems that are presented to the specialist, and your participation in the National Ambulatory Medical Care Survey (NAMCS) may be requested. This is a survey, five years in the development, which should prove to be a valuable mechanism for collecting data on office based ambulatory practice.

To gather these facts, the support of the members of the American Academy of Dermatology is indispensable. Only by having hard data can we assess health facility and manpower requirements and determine desirable modifications in medical education programs.

The contribution to be made by our specialty will come from a small sample of practicing dermatologists and will require some effort and time (about 15 minutes a day for a week). Judging from the response to surveys conducted by the National Program for Dermatology, I am sure you will feel it worth the individual effort if you are called upon to participate. survey itself minimizes record keeping and emphasizes the utilization of data collected. Strict confidentiality is of course preserved, and only summary data will be published.

I urge your support of this National Ambulatory Medical Care Survey. We, as a specialty, can look forward to utilizing the results of this important research.

Sincerely,

etary-Treasurer

JMS/mr

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. 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.

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.

DATA PROCESSING

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 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 randomly assigning a value from a Patient Record with similar characteristics; imputations were based on physician specialty, major reason for visit, and broad diagnostic categories.

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400	7. MAJOR REASON FOR THIS VISIT [Check one]	ALASKAN NATIVE B. DIAGNOSTIC SERVICE [Check all ordered or pro		9. PHYBICIAN'S	DIAGNOSES	
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	3 CHROMIC PROBLEM, FLAREUP 4 POST BURGERY/POST INJURY 5 NON ILLNESS CARE (POUTING PRENATAL, GENERAL EXAM, WELL BASY, ETC)	4 PAP TEST 9 CLIMICAL LAB TEST 0 X-RAY 7 BLOOD PRESSURE CHECK	II MENTAL STATUS EXAM 12 OTHER (Specyy)	b. OTHER SIGNIFIC	ANT CURRENT DIAGNOSES	
	10. HAVE YOU SEEN PATIENT BEFORE? I VES PORTHE CONDITION IN	11. MEDICATION THER/ / Using brand or generic provided at this visi. In: 8. FOR PRINCIPAL DIAGNO	names, record all new and clude immunising and desc	nsitizing agents j	a ordered, injected, administere	d, or otherwise
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MEDICAL CODING

The patient record form contains three medical items, each of which requires a separate coding system. The three coding systems are described briefly below. 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.

(A) Patient's Reason for Visit: Information contained in item 6 (patient's reason for visit) of the Patient Record was coded according to A Reason for Visit Classification for Ambulatory Care (RVC).— The RVC system utilizes a modular structure composed of seven modules. The digits 1 through 8 preceding the 3-digit RVC codes identify the various modules as follows:

"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, e.g.,
'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' = Al00 = physical examination required for employment

"8" = Uncodeable entries, e.g. '8997' = U997 = entry of "none" or no complaint

"0" = special code=blank

A maximum of 3 problems were coded, in sequence; coding instructions concerning the patient's reason for visit are contained in the NAMCS medical Coding Manual.— Copies are available upon request.

- (b) Physician's Diagnoses: Diagnostic information in item 9 of the Patient Record was coded according to the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM).— For 1980 NAMCS tabulations involving principal diagnoses, the following characteristics exist:
 - 1. The prefix "1" preceding the diagnostic codes represents 001.00-999.90, e.g. '138100' = '381.00' = Acute nonsupporative otitis media, unspecified.
 - 2. The prefix "2" preceding diagnostic codes represents V code diagnoses V01.00-V82.90, e.g. '201081' = 'V10.81' = personal history of malignant neoplasm of bone. In other words, eliminate the prefix "2" and change the first "0" (zero)to "V."

NOTE: The use of prefixes facilitates the calculation of percent distributions, while substituting "0" (zero) for the letter "V" allows that all fields on the data tape will contain numerical data.

3. In addition to the diagnostic codes from the ICD-9-CM there are 5 unique codes in the diagnostic fields that were developed by the NAMCS staff:

100000 = blank diagnosis

209900 = unsuitable diagnosis

209970 = diagnosis given as "none"

209980 = noncodable diagnosis

209990 = illegible diagnosis

A maximum of three diagnoses were coded in sequence; coding instructions concerning diagnoses are contained in the NAMCS Medical Coding Manual.—

- (C) Medication Therapy This Visit: Drug mentions contained in item 11 of the Patient Record were coded according to the Medication Code List 1980 (MCL) contained in reference 7. The Medication Code List contains 7,081 brand and generic names of medications, alphabetized and coded serially from 00005 to 35405. In addition, there is a code (99999) for illegible entries and an 'other' code (99980) for entries that are legible but cannot be found on the MCL 1980. Thus, one of three coding choices will be applied to every medication entry:
 - 1 a code from the MCL
 - 2 an illegible code, or
 - 3 an 'other' code.

There is a 100 percent, independent coding of every medication entry. Disagreements between coders are referred to an adjudicator to be resolved. For a more comprehensive description about the medication coding process see Appendix IV of reference 6.

Drug Product Information File

The broad range of drug dimensions intended for exploration by the NAMCS required the use of an exhaustive inventory of the drugs anticipated to be prescribed in office-based ambulatory care. Such an inventory is the Drug Product Information File (DPIF) a computer-processable data base of information on more than 30,000 commercially available drug products. Developed and maintained under the auspices of the American Society of Hospital Pharmacists, the DPIF is continually updated to add new products when they are marketed and to withdraw products when they are no longer available. Drug products are described in a fixed-field format in which 68 fields are used to record a broad range of drug dimensions desired for NAMCS needs. The following fields were selected from the DPIF to be on the NAMCS drug file:

Medication Code List Name: The name of a drug as it appears on the NAMCS Medication Code List, an alphabetized inventory of single-source and multiple-source drugs for use in coding the entries on the NAMCS patient records. The complete list is in appendix III of reference 7. The core constituents of the list are the brand names of the drugs. Selected generic names have been added to insure a more complete representation of generic-entry choices.

Medication Code List Code: The code assigned to each Medication Code List Name. The serial order of the MCL codes parallels the alphabetic order of the MCL names (see Appendix III of reference 7.)

Generic Name: The (public, scientific, nonproprietary, established) name as assigned by the United States Pharmacopeia or other responsible authorities. In the NAMCS Drug File, the records in the DPIF generic name field have been modified to agree in nomenclature with the generic forms used in the current volumes of the American Hospital Formulary Service (American Society of Hospital Pharmacists, Inc., January 1980). A further

modification was undertaken which aimed at selectively replacing certain product-specific generics in the DPIF by the more functional, utilization-oriented configurations needed by NAMCS. The final result of these adaptations was the NAMCS Inventory of Generic Names, which appears in appendix II of reference 7.

Generic Name Code: A code created for and unique to the NAMCS Drug File, which is assigned to each generic name.

Brand Name: The name under which the drug product is marketed and may or may not be a trademark.

Entry Status Code: The code, unique to NAMCS, denotes the nature of the entry that the physician makes on the Patient Record.

Prescription Status Code: The code derived from the DPIF

Legal Status Code, which is used to indicate the Federal
legal classification of drug products.

Federal Controlled Substance Status Code: The code derived from the DPIF Legal Status Code which denotes the degree of potential abuse and Federal Control of a drug.

<u>Composition Status Code</u>: The code derived from the DPIF Record Type Code and is used to distinguish between single--and multiple-entity drugs.

Ingredient Codes: Codes to identify the active, generic ingredients of combination drugs. A maximum of 5 codes are adapted from the DPIF to the NAMCS Drug File; this represents a truncation of the DPIF, in which 12 ingredient code fields are allowed. An estimated 84 percent of all active ingredients are identified in the five fields retained by NAMCS.

NOTE: The NAMCS Drug File does not retain the DPIF ingredient

NOTE: The NAMCS Drug File does not retain the DPIF ingredient codes for generic components that cannot also function as single-entity drugs.

Copies of reference 7: "The Collection and Processing of Drug Information, National Ambulatory Medical Care Survey, United States, 1980," are available upon request. Interested persons should contact the Ambulatory Care Statistics Branch, Division of Health Care Statistics, Room 2-63 3700 East-West Highway, Hyattsville, Maryland 20782. The telephone number is 301/436-7132.

POPULATION FIGURES

The base population used in computing annual drug mention rates is presented in table II. These figures are based on provisional estimates for the civilian noninstitutionalized population as of July 1, 1980, 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 1980 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.

- (1) INFLATION BY RECIPROCALS OF SAMPLING PROBABILITIES.--Since the survey utilized a three-stage sample design, there were three probabilities: (A) The probability of selecting the PSU, (B) the probability of selecting a physician within the PSU, and (C) the probability of selecting a patient visit within 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.
- (2) 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

Table II. Estimates of the civilian noninstitutionalized population of the United States, by age, according to race and sex, geographic region, and metropolitan and nonmetropolitan area as of July 1, 1979

			Age			
Race, sex, geographic region, and metropolitan and nonmetropolitan area	All ages	Under 15 years	15-24 years	25-44 years	45-64 years	65+ years
Race and Sex		1	 umber in tho	ousands		
All races	216,580	49,542	39,760	60,140	43,318	23,820
Male Female	104,490 112,090	25,292 24,251	19,562 20,197	29,111 31,029	20,716 22,602	9,809 14,011
White	186,513	40,792	33,622	52,080	38,455	21,564
Male Female	90,343 96,170	20,873 19,918	16,657 16,966	25,490 26,590	18,457 19,999	8,867 12,697
All Other	30,066	8,751	6,137	8,060	4,863	2,256
Male Female	14,146 15,920	4,419 4,333	2,905 3,232	3,621 4,439	2,259 2,604	942 1,314
Geographic region						
Northeast North Central South West	48,240 57,508 71,358 39,475	·				
Area						
Metropolitan Nonmetropolitan	148,203 68,377					

 $^{^{}m 1}$ Excludes Alaska and Hawaii

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.

(3) RATIO-ADJUSTMENT.--A poststratification adjustment was made within each of nine physician specialty groups. The ratio adjustment as 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 2, as well as the Appendix of this document.

DRUG WEIGHT

The "drug 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 drug mentions--and not a complete count of all the drug mentions that were provided in the United States. The "drug weight" is an inflation factor assigned to each drug record. By aggregating the "drug weights" an estimated complete count or national estimate can be obtained.

References $\frac{1}{}$

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. (HRA)
 74-1335. Health Resources Administration. Washington. U.S.
 Government Printing Office. March 1974.
- 2. National Center for Health Statistics: 1980 Summary: National Ambulatory Medical Care Survey, United States. Advance Data from Vital and Health Statistics, No. 77. DHEW Publication No. (PHS) 82-1250. Public Health Service. Hyattsville, Maryland.
- 3. Induction Interview Form. National Ambulatory Medical Care Survey. National Opinion Research Center. University of Chicago. QMB NO. 068-572106.
- 4. 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.
- 5. National Center for Health Statistics: International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM).

 DHHS Pub. No. (PHS) 80-1260. Public Health Service. Washington.

 U.S. Government Printing Office, September, 1980.
- 6. National Ambulatory Medical Care Survey: 1977 Medical Coding Manual.
- 7. National Center for Health Statistics, H. Koch: The collection and processing of drug information, National Ambulatory Medical Care Survey, United States, 1980. Vital and Health Statistics. Series 2-No. 90. DHHS Pub. No. (PHS) 82-1364. Public Health Service. Washington. U.S. Government Printing Office. In press.
- 8. National Ambulatory Medical Care Survey: Coding Procedures for Medication Entries, NAMCS 1980.

 $\frac{1}{2}$ Information concerning other reports to be written on 1980 data may be obtained from the Ambulatory Care Statistics Branch.

II. <u>Technical Description of Tape</u>

Data Set Name: DRUG1980 Number of Reels: 1 Number of Recording Tracks: Density (bpi): 1600 or 6250 Language: **EBEDIC** Parity: ODD Record Length: 257 Blocksize: 25700 Number of Records: 51,372 Computer Compatibility: IBM 360 or 370

III. 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. The data in fields 1-10 were obtained from the Drug Product Information File, described on page 13 of this document. Unless otherwise stated in the "Item description" column, the remaining data are derived from the patient record (page 10). The AMA and the induction interview (reference 3) are alternate sources of data, while the computer generates other items by recoding selected data items.

Field No.	Field Length	Tape Location	Item Description and Codes
1	5	1-5	Medication Code List Code (MCL#)
			See Appendix III of reference 7 for all codes. The following codes are used:
		·	00005-35510: MCL Names in Field 2 99980 : Other 99999 : Illegible
2	40	6-45	Medication Code List Name (MCL Name-see page 13)
			The brand or generic name of a drug. See Appendix III of reference 7 for all names.
3	5	46-50	Generic Name Code (GN#)
			See Appendix II of reference 7 for all codes. The following codes are used:
			50005-56300: generic name in Field 3 50000: generic name undetermined
4	40	51-90	Generic Name (see page 13)
			See Appendix II of reference 7 for all names.

Field No.	Field Length	Tape Location	Item Description and Codes
5	40	91-130	Brand Name (see page 14)
6	1	131 	Entry Status Code (see page 14) 1 = Generic Name 2 = Brand name 3 = Therapeutic effect 4 = Other (entry not in the MCL)
7	1	132	Prescription Status Code 1 = Prescription drug 2 = Nonprescription drug 3 = Undetermined
8	1	133	Federal Controlled Substance Status Code (see page 14) 1 = Schedule I (research only) 2 = Schedule II (most abused) 3 = Schedule III (less abused) 4 = Schedule IV (potential abuse) 5 = Schedule V (Controlled sale by pharmacy onlyRX required or State restricted) 6 = No control 7 = Undetermined
9	1	134	Composition Status Code (see page 14) 1 = Single-entity drug 2 = Combination drug 3 = Undetermined 5 = Multivitamin
10	25	135-159	Ingredient Codes (Ingredients of combination drugs; maximum of 5 generic name codes)
10.1	5	135-139	Ingredient Code (50005-56300, or 50000)
10.2	5	140-144	Ingredient Code "
10.3	5 5	145-149	Ingredient Code "
10.4	5	150-154	Ingredient Code "
10.5	5	155-159	Ingredient Code "
11	1	160	Number of Drugs Coded Range: 0-8

Field No.	Field Length	Tape Location	Item Description and Codes
12 12.1	4 2	161-164 161-162	Date of visit Month of visit 01-12: January-December
12.2	2	163-164	Year of visit Last 2 digits of year
13 13.1	4 2	165-168 165-166	Date of birth Month of birth 01-12: January-December
13.2	2	167-168	Year of birth Last 2 digits of year
14	1	169	Sex 1=Female 2=Male
15	1	170	Race 1=White 2=Black 3=Asian/Pacific Islander 4=American Indian/Alaskan Native
16	1	171	Ethnicity 1=Hispanic Origin 2=Not hispanic
17 17.1 17.2 17.3	15 5 5 5	172-186 172-176 177-181 182-186	Patient Problems (see Page 11) Most important problem #1 Most important problem #2 (if any reported) Other problem
18	1	187	Major reason for this visit 1=Acute problem 2=Chronic problem, routine 3=Chronic problem, flareup 4=post surgery/post injury 5=non-illness care (routine prenatal, general exam, well baby, etc.)

Field No.	Field Length	Tape <u>Location</u>	Item Description and Codes
19	12	188-199	Diagnostic services this visit
19.1	1	188	None (1=Yes and 0=No)
19.2	$\bar{1}$	189	Limited history/exam
19.3	1	190	General history/exam
19.4	1	191	Pap test
19.5	1	192	Clinical lab. test
19.6	1	193	X-ray "
19.7	1	194	Blood pressure check "
19.8	1	195	EKG
19.9	1	196	Vision test "
19.10	1	197	Endos copy "
19.11	1	198	Mental status exam
19.12	1	199	Other "
20	18	200-217	Physician's principal diagnosis (see page 12)
20.1	6	200-205	First diagnosis associated with item 6a
20.2	6	206-211	Second Diagnosis associated with item 6a (if any
20.3	6	212-217	other significant current diagnosis reported)
21	2	218-219	Even seen patient before
21.1	1	218	1=Yes 2=No
21.2	1	219	
21.2	1	219	"If yes, for the condition in item 8a?" 0=Blank
			1=Yes
		•	2=No
22	9	220-228	Non-medication Therapy
22.1	1	220	None (1=yes and 2=no)
22.2	i	221	Physiotherapy "
22.3	i	222	Office surgery "
22.4	1	223	Family planning "
22.5	ī	224	Psycotherapy/therapeutic listening "
22.6	ī	225	Diet counseling
22.7	ī	226	Family/social counseling "
22.8	ī	227	Medical counseling "
22.9	ī	228	Other "
23	1	229	Patient Referred by Another Physician 1=Yes 2=No

Field No.	Field Length	Tape Location	Item Description and Codes
24 24.1 24.2 24.3 24.4 24.5 24.6 24.7 24.8	8 1 1 1 1 1 1 1	230-237 230 231 232 233 234 235 236 237	Disposition of visit No follow-up planned (1=Yes and 0=No) Return at specified time Return if needed " Telephone follow-up " Referral " Return to referring physician " Admit to hospital " Other "
25	3	238-240	Duration of visit in minutes (000-999)
26	10	241-250	Drug Weight A right justified, alphanumeric integer developed by the NAMCS staff for the purpose of producing national estimates from sample estimates. See notes on page 17 of these documentation.
27		251	Geographic Region (Based on actual location of physician's practice.) 1=Northeast 2=North Central 3=South 4=West
28	1	252	Metropolitan/Nonmetropolitan (Based on actual location in conjunction with the definition of the Bureau of the Census and the U.S. Office of Management and Budget.) 1=Standard Metropolitan Statistical Area (SMSA) 2=Non-SMSA
29	3	253-255	Physician Specialty (Derived from Induction Interview - reference 3)

ALSO: See "List of Designated Specialty Codes" on page 26 of these documentation, and the NAMCS recodes on page 27...

List of Designated Specialty Codes

AM	Aerospace Medicine	P	Psychiatry
A	Allergy	CHP	Psychiatry, Child
*AN	Anesthesiology	PYA	Psychoanalysis
BE.	Broncho-Esophagology	PYM	Psychosomatic Medicine
CD	Cardiovascular Diseases	PH	Public Health
D	Dermatology	PUD	Pulmonary Diseases
DIA	Diabetes	*R	Radiology
END	Endocrinology	*DR	Radiology, Diagnostic
FP	Family Practice	*PDR	Radiology, Pediatric
GE	Gastroenterology	*TR	Radiology, Therapeutic
GP	General Practice	RHU	Rheumatology
GPM'	General Preventive Medicine	RHI	Rhinology
GER	Geriatrics	ABS .	Surgery, Abdominal
GYN	Gynecology	CDS	Surgery, Cardiovascular
HEM	Hematology	CRS	Surgery, Colon and Rectal
HYP	Hypnosis	GS	Surgery, General
ID	Infectious Diseases	HS	Surgery, Hand
IM	Internal Medicine	HNS	Surgery, Head and Neck
LAR	Laryngology	NS	Surgery, Neurological
LM	Legal Medicine	ORS	Surgery, Orthopedic
ND	Neoplastic Diseases	PDS	Surgery, Pediatric
NEP	Nephrology	PS	Surgery, Plastic
N	Neurology	TS	Surgery, Thoracic
CHN	Neurology, Child	TRS	Surgery, Traumatic
*NM	Nuclear Medicine	U	Surgery, Urological
NTR	Nutrition		
OBS	Obstetrics		
OBG	Obstetrics and Gynecology	In ad	dition to the above specialties
OM	Occupational Medicine	the f	ollowing designations are also
OPH	Ophthalmology	used:	
OT	Otology	os	Other, i.e., physician designate
OTO	Otorhinolaryngology		a specialty other than those
*PTH	Pathology		appearing above.
*CLP	Pathology, Clinical		
*FOP	Pathology, Forensic	US	Unspecified, i.e., physician
PD	Pediatrics		did not specify a specialty.
PDA	Pediatrics, Allergy		1
PDC	Pediatrics, Cardiology	EM	Emergency Medicine
PA	Pharmacology, Clinical		
PM	Physical Medicine and Rehabilitation		

^{*} Excluded from NAMCS by definition.

NAMCS Recodes for Physician Specialty

Specialty Group

AMA Codes Included

1. G.P.

G.P., FP

Medical Specialties

2. IM

IM

3. Pediatrics

PD, PDA, PDC

4. Other Med. Spec.

A, BE, CD, D, DIA, END, GE, HEM, ID, ND, NEP, NIR, PUD,

RHÚ

Surgical Specialties

5. General surgery

GS

6. OBG

OBS, OBG, GYN

7. Other Surg. Spec.

ABS, CDS, CRS, HS, HNS, LAR, OTO, OT, RHI, NS, ORS, PDS, PS, TS, TRS, U, OPH

Other Specialties

8. Psychiatry

P, CHP, PYA, PYM, HYP

9. Other

AM, CHN, GER, EM OM, PM, N, OS, US, LM, PA,

PH, GPM

IV. Marginal Data

Any cell with an estimate of 412,000 visits or less has a relative standard error of 30 percent or more. Such an estimate is considered an unreliable statistic according to the standards of reliability of the National Center for Health Statistics. Micro-data tape users should be aware that the following symbols are used with tabular presentation in all Center publications:

- --- Data not available
- ... Category not applicable
- Quantity zero
- 0.0 Quantity more than 0 but less than 0.05
- * Figure does not meet standards of reliability or precision
- Figure suppressed to comply with confidentiality requirements

ROW 01 = Unweighted frequency

ROW 02 = Weighted frequency*

ROW 03 = Column percent

ROW 04 - Row percent

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

	ALL	UNDER15	15-24	25-44	45-64	65 +
PATIENT AGE	51372 679592929 100.00 100.00	7544 115643344 100.00 17.02	5438 75213118 100.00 11.07	11517 148125925 100.00 21.80	13349 175572107 100.00 25.83	
PATIENT SEX	ALL	F	М			
FAILENI SEA	51372 679592929 100.00 100.00	31 467 41 3569 507 1 00 • 60 60 • 86	19905 266023022 100.00 35.14			
	ALL	WHITE	BLACK	ASIAN ILANDER	INDIAN ALASKAN	٠
RACE	51372 679592929 100.00 100.00	46338 608345905 100.00 89.52	4501 64808088 100±00 5•54	315 3947637 100•00 0•5a	218 2491299 100.00 0.37	
	ALL	HISPAN	NOT HISPAN			
ETHNICITY	51372 679592929 100.00 100.00		48389 645353568 100.00 54.96			
	ALL	YES	NO			
PATIENT REFERRAL STATUS	51372 679592929 100.00		49754 660634695 100•00 97•21		·	

				THERA		
	ALL	GENERIC NAME	BRAND NAME	PEUTIC EFFECT	UNDETER MINED	KEY
NTRY STATUS						
	51372	12215	36921	1553	584	
	679592 929	164463526	483587166	•	18017433	
	100.00	100.00	100.00	100.00	100.33	
,	100.33	24.20	71.16	3.17	1.47	
	ALL	RX DRUG	OTC DRUG	UNDETER MINED	KEY	
SCRIPTION	E:771	42523	6357	2347	RAW	
TATUS	5137.2		85343973			
	170.00			100.30		
	190.03			4.86	W1R	
·						
1		SINGLE				
	ALL	INGRED DRUG	COMB DRUG	MULTI VITAMIN	UNDETER MINED	KEY
	ALL	DRUG	DRUG	VIIAMIN	MINED	KE1
POSITION	51372	35930	12185	13 25	2237	RAW
TATUS	679592929	468752360	165797948	13500284		WTI
	100.00	137.90	100.00	100.00	100.00	WIC
	100.30	53 - 98	24 • 4û	1.99	4.64	WIR
)						IBIGON
		SCHED 2	SCHED 3	SCHED 4	SCHED 5	UNCON TROLLED
l	ALL	DRUG 2	DRUG	DRUG 4	DRUG	DRUG
TROL	51372					44340
ATUS					10445463	
		107.03	103.20	130.03	106.00	100.00
	130.00	ิ	1.77	4.46	1.54	86 • 53
ļ	UNDETER	VEV				
	MINED	KEY				
	2347					
	33021413					
	100.00					
	4 • 86	W1 R				
1						

						-1.02
			CHRONIC	CHRONIC	POST	NON
		ACUTE	PROB	PROB	SURGERY	
	ALL	PROB	ROUTINE			ILLNESS
MAJOR REASON	ALL:	1 ROD	KOUTINE	FLAREUP	INJURY	CARE
FOR VISIT	51372	18853	19651	6280	1627	4961
FOR VISII		271380 336			21439663	66721567
	100.00		100.00	100.00	-	
	100.00					100.00
	100.00	39.93	34.85	12.25	3+15	7.82
•						
			PHYSIO	OFFICE	FAMILY	
	ALL	NONE	THERAPY	SURGERY	PLANNING	
) NON-MED						
THERAPY	E1270	35200	0.74.4	2722	2 = 2	
SERVICES	51372				858	
				34054745	1 0 3 6 01 85	
	100.00	100.20		100.66	130.03	
	100.00	52.44	4 - 84	5.01	1.52	
	PPSYCHO		TALET T		Am	
		T T TIM	FAMILY		OTHER	
	THERAPU	DIET	SOCIAL	MED	NON-MED	
	LISTENG	COUNSEL	COUNSEL	COUNSEL	THERAPY	
٠.				4		
	3706	6405	1298	14440	649	
	31127373	85154778		183126165	8467055	
	100.00	100.00		130.00	-	
	4.58	12.53	2.42		130.03	
	100	12 - 33	2.4.2	26.95	1.25	
			RETURN	RETURN		
		NO	SPEC	IF	TEL	
	ALL	FOLLOW	TIME	NEEDED	FOLLOW	
	ALL:	TOLLOW	LIME	NEEDED	LOTTOM	
3POSITION	E1770	7:00	74~44	10047		
) ODITION	51372		_	12963	_	
	679592929			165113492	25 265 / 94	
	100.00	103.30	100.00	100.33	100.00	
	109.00	9.11	65.29	24.30	3.86	
				ADMIT		
		REFER	RETURN	HOSP	OTHER	
		10 87				
		13122525	3699163	4616737	763353	
		130.03	100.00	100.00	100.00	
		1.93	0.54	0.68	0.11	
	ALL	ZERO	1-5	6-10	11-15	
DURATION OF				0 20	11 13	
VISIT	F1370	362	3 7 2 5	13889	15974	
				214320841		
				100.03		
•						
	100-66	2.17	7.44	31.54	29.19	
			13357	3216	254	
				28901459		
			130.33		100.60	
			20 21	T 3 6 9 0 0	T00007	

22.31

4.25

0.48

GENERAL RFV-7	ALL	SYMPTOM MODULE	DISEASE MODULE	DIAG SCREEN PREVEN	TREAT- MENT MODULE
MODULES	5137 <i>2</i> 679592929 103.00 100.00	31568 425023964 130.30 62.54	5678 66952316 100•00 9•85	99855344	
		TN HIDY	TEST		
		INJURY ADVERSE EFFECTS	RESULTS MODULE	ADMIN MODULE	UNCODE- ABLE
		977 1441 9325 100.00 2.12	193 2226343 100.00 0.33	238 3678827 100.00 0.54	744 8388134 100.00 1.23
·.			,		
	ALL	NE	NC	S	W
GEOG REGION	51372 679592929 100.00	14755 172834594 182.00	165899312		7451 105993596 100.00
	130.03	25.43	24.41	34.56	15.60
	ALL	METRO	NON METRO		
METRO-NONMETRO	51372	39331	12041		
	679592929 100.00	504735417	174857512 1J0.JC		
	100.00	74.27	25.73		
	ALL	SOLO	PARTNER	GROUP	
TYPE OF PRAC	51372 679592929 130.03 130.33	39319 393715710 130.00 57.49		100.00	
	ALL	MD	DO		
MD VS DO	51372 679592925 100.00 100.00	43401 525985252 100.00 92.11	53637677		

	ALL	INF-PAR DIS	NEOPLSM	ENDS NUTR MET	MENTAL DISORDR	DIS NERV SYSTEM
MAJOR ICDA CLASSES	51372 679592929 100.00 100.00	1622 22554464 100.00 3.33	1071 12395415 100.00 1.82	3104 42606531 100-00 -6-27	2768 21791350 100•00 3•21	3897 53634797 100.00 7.89
	DIS CIRC SYSTEM	DIS RESP SYSTEM	DIS DIGEST SYSTEM	DIS GENITO SYSTEM	SKIN DIS	DIS MUSKETL SYSTEM
	8651 105320435 100.00 15.50	8850 127732267 100•30 18•80		2533 32276339 100.00 4.75	3375 57954060 100.00 8.53	3785 47337209 100.00 6.97
	SYMPTOM	ACCENT	SPECL COND	OTHER	DX NONE	DX UNK
	1605 21225108 100.00 3.12	2201 31489115 100.00 4.63	4563 56716330 100•99 8•64	605 7804417 100.00 1.15	71 1203217 100•00 0•18	369 5073415 130•00 C•75
	ALL	NONE	LIMITED EXAM	GEN EXAM	PAP TEST	
DIAG SERVICES	51372 6 7 9592929 100.33 100.33	3357 42875279 130.99 6.31	33195 447317598 100.00 65.82	2635 109869507 150.00 16.17	1704 20583250 100.00 3.03	
		CLIN LAB TEST	X-ray	B LOOD PRES CK	EKG	
		12536 157636782 100.00 23.20		291706893	25164184 100.00	
		VISION TEST	ENDOS COPY	MENTAL STATUS EXAM	OTHER DIAG	
		1762 21590 063 130.00 3.18	391 93 37	9365812 100.00	39852535 130.00	
		ALL	NEW PT	OLD PAT NEWPROB	OLD PT OLDPROB	
STATUS OF V		51372 679592929 100.00 100.00		11206 164278995 100.00 24.17		

ALL SPECIALTIES

•					
ALL	A	CD	D	GE	GP
		4 7 6 7			
51372	458	1395	2386	569	16823
677592725	5679105	10152126	45286539		279185793
100.00	100.00	100-00	100.00	100.00	100.00
100.00	0.97	1.50	6.65	0.68	41.03
GPM	GYN-	HEM	IM	NEP	N
47	4.0				
47	19	49	11785	4	408
819022	127700		118942530	15500	3824274
100.00	100.00	100.00	130-30	100.00	100.00
0.12	0.02	0.18	17.50	0.30	C•56
OBG	OM	OPH	OTO	PD	PDA
2951	189	1519	ε01	4501	177
32897383	1942379	19280720	9229423	70871947	1895753
109.JO	133.99	160.50	100.00	100.00	100.02
4.84	0.29	2.84	1.35	10.43	0.28
			•		
PDC	PM	P	CUD	Р Н	PUD
PDC	PM	r	CHP	P.D.	עטי
16	83	1843	74	12	341
57145	383829	9154675	499915	54204	2530027
100.00	100.00	100.30	100.00	100.00	100.00
0.01	0.06	1.35	0.07	0.01	C•37
				2002	
		*			
CDS	CRS	GS	NS	ORS	PS
45	227	1280	144	8 9 2	106
4 67: 35		158808 92	987184		916599
189.33	100.30	193.30	100.00	100.00	100.00
0.07	0.29	2.34	Ú•15·	1.79	0.13
TS	U	os	US		
123	594	81.7	582		
2382636	5264946	14380785	6186211		
177.00	109.00	100.00	100.00		•
0.35	9.77	2.12	0.91		

OTHER SPECS

23766130 100.00 3.50 KEY

WT1

W1 C W1 R

1735 RAW

3 SPEC(15)

		MED SPECIAL		PEDIA	
ALL	GP	TIES	IM	TRICS	CARDIOV
51372	16827		11785	4794	1395 10162125
	2791 95793	385931	118942630	72824345 100.03	103-00
130.30	130.30	. 100.30	100.00	19.72	1.57
100.00	41.08	0.05	17.50	13.12	1.57
	-				
	OTHER	SU			
	MED	SPECIAL			
DERM	SPECS	TIES	GS	ORS	UROL
2704	4 4 71	215	1 200	3 9 2	594
2386	1431 14993015	1098769	1280 1588 18 92	11529342	526 49 4 6
45286539 100.00	130.00	100-55	130.00	100.00	100.00
6.65	2.21	0.15	2.34	1.70	0.77
0.00	2.21	0.13	2034	10.0	30
		OTHER	OTHER		
		SURG	SPECIAL		
OPHTHAL	ОТО	SPECS	TIES	PSYCH	NEURO
1510	224	7/15	E1277	1017	
1519 19280720	831 9229#23	3515	51377 678131741	1917 9654590	409 38242 7 4
100.00	193.00	100.00	100.00	100.00	130.02
2.84	1.36	5.85	99.78	1.42	0.56
4	. • 70	J # C 5	//= 10	1072	000
OTHER					

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 table I. The standard errors for estimated percentages of drug mentions are shown in table II.

Table I. Approximate relative standard errors of estimated numbers of drug mentions based on all physician specialties: NAMCS, 1980

	Estimated number of drug mentions in thousands	Relative standard error in percent
1,000		27.3
2,000		19.7
5,000		13.2
10,000		10.1
20,000		8.2
50,000		6.8
100,000		6.2
300,000	• • • • • • • • • • • • • • • • • • • •	5.8
650,000		5.7

Example of use of table: An aggregate of 75,000,000 drug mentions has a relative standard error of 6.5 percent or a standard error of 4,875,000 mentions (6.5 percent of 75,000,000).

Table II. Approximate standard errors of percents of estimated numbers of drug mentions based on all physician, specialties: NAMCS 1980

Base of percent	Estimated percent					
(number of drug mentions in thousands)	1 or 99	5 or 95	10 or 90	20 or 80	30 or 70	50
	Standa	ard erro 	r in perc 	entage poi	nts 	
1,000	2.7	5.8	8.0	10.7	12.2	13.3
2,000	1.9	4.1	5.7	7.6	8.7	9.4
5,000	1.2	2.6	3.6	4.8	5.5	6.0
20,000	0.6	1.3	1.8	2.4	2.7	.3.0
100,000	0.3	0.6	0.8	1.1	1.2	1.3
600,000.	0.1	0.2	0.3	0.4	0.5	0.5

Example of use of table: An estimate of 30 percent based on an aggregate of 12,500,000 drug mentions has a standard error of 4.1 percent or a relative standard error of 13.7 percent (4.1 percent : 30 percent).

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.

Drug mention(s).--The physician's entry of a pharmaceutical agent ordered or provided--by any route of administration--for prevention, diagnosis, or treatment. Generic as well as brand-name drugs are included. Along with all new drugs, the physician also records continued medications, if the patient was specifically instructed during the visit to continue the medication.

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:

Region

States Included

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.

1980 NAMCS USER QUESTIONNAIRE

WO	In order to improve the NCHS Micro-Data Tape Release program, we uld appreciate your assistance in regard to the following questionnaire.					
Ti: Or:	Name: Title: Organization: Address:					
Dat	te of tape purchase: pe of organization (university, insurance, etc.):					
	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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Data Tape Coordinator Scientific and Technical Information Branch National Center for Health Statistics 3700 East-West Highway Hyattsville, Maryland 20782

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