## FROM VITAL & HEALTH STATISTICS OF THE NATIONAL CENTER FOR HEALTH STATISTICS

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE . Public Health Service

Number 15 • December 14, 1977

## National Ambulatory Medical Care Survey of Visits to General and Family Practitioners, January-December 1975<sup>1</sup>

According to data collected in the National Ambulatory Medical Care Survey (NAMCS), an estimated 234,660,000 visits were made to the offices of general and family practitioners (GFP's) during calendar year 1975. These visits accounted for over 41 percent of the estimated 567.6 million visits made to all office-based physicians in 1975.

The NAMCS is a sample survey designed to explore the provision and utilization of ambulatory care in the physician's office-the setting where most Americans seek health care. The survey is conducted yearly over the coterminous United States by the Division of Health Resources Utilization Statistics of the National Center for Health Statistics. The survey sample is selected from doctors of medicine and osteopathy who are engaged in office-based, patient care practice. In its current scope, the NAMCS excludes physicians practicing in Alaska and Hawaii, physicians whose specialty is anesthesiology, pathology, or radiology, and physicians in Government service.

For a listing of publications describing the development of the survey and definitions of terms used in the survey see the Technical Notes. A detailed explanation of the sample design and the relative standard errors associated with selected aggregate statistics may be found in that section.

Provisional NAMCS data for calendar year 1974 regarding general and family practitioners have been published.2 Caution should be exercised in making comparisons between 1975 estimates and the provisional 1974 estimates previously published. Since the 1974 provisional data were released, refinement of the procedures used to project the national estimates from the sample findings has resulted in a lowering of the final 1974 numerical estimates of office visits by 8 to 9 percent. In particular, the provisional estimate of 263.4 million office visits to general and family practitioners in 1974 was finalized to reflect the more accurate figure of 242.9 million office visits. Final distributions and percents, however, were virtually unchanged. The number of total office visits for all specialties for calendar year 1974, estimated at 634.1 million in the previous publication, has been adjusted to 577.8 million.3

<sup>3</sup>National Center for Health Statistics: Ambulatory medical care rendered in physicians' offices, United States, 1975. Advance Data From Vital and Health Statistics, No. 12. DHEW Pub. No. (HRA) 77-1250. Health Resources Administration. Hyattsville, Md. Oct-

tober 12, 1977.

<sup>&</sup>lt;sup>2</sup> National Center for Health Statistics: National Ambulatory Medical Care Survey: National Ambulatory Medical Care Survey of Visits to General and Family Physicians, January 1974-December 1974. Monthly Vital Statistics Report. Vol. 25-No. 2, Supp. 2. DHEW Pub. No. (HRA) 76-1120. Health Resources Administration. Rockville, Md. May 19, 1976.

<sup>&</sup>lt;sup>1</sup>This report was prepared by Beulah K. Cypress, Ph.D., Division of Health Resources Utilization Statis-

### **DATA HIGHLIGHTS**

A comparison of visits made to office-based physicians in the most-visited specialties reveals that visits to GFP's during 1975—234.7 million—exceeded the total estimated visits to the next four leading specialties combined—198.2 million (table 1).

Table 1. Number and percent of visits to office-based physicians, by the most-visited specialties: United States, January-December 1975

Most-visited specialty	Number of visits in thou- sands	Per- cent of visits
GENERAL AND FAMILY PRACTICE Internal medicine Obstetrics and gynecology Pediatrics General surgery	234,660 62,117 48,076 46,684 41,292	41.3 10.9 8.5 8.2 7.3

### Type and Location of Practice

More visits were made to general and family practitioners electing solo practice—73 percent—than to physicians having group or partnership arrangements—27 percent (table 2). This reflects the fact that about 74 percent of GFP's were engaged in solo practice in 1975.

While visits to the offices of GFP's located within standard metropolitan statistical areas (SMSA's)<sup>4</sup> outnumbered visits to nonmetropoli-

tan-based offices (table 2), there was less disparity between location categories than appeared in other specialties. Table 3 illustrates this difference.

A greater number of visits to metropolitan-based GFP's is reasonable since about 70 percent of the population resides within SMSA's, and approximately 65 percent of physicians in general and family practice are located within SMSA's. However, the annual rate of visits to nonmetropolitan offices of GFP's (146 visits per 100 persons) was more than half again as much as the rate within SMSA's (94 visits per 100 persons)—an indication that the population outside of SMSA's tends to visit GFP's more often than those within SMSA's.

### Patient's Age, Sex, and Color

The number of visits to office-based general and family practitioners increased with age, the greatest number occurring in the age interval from 45 to 64 years (table 2). For persons 65 years and over, the rate of annual visits was triple the rate for persons under 15 years of age.

Visits by females outnumbered visits by males by a ratio of about 3 to 2 (table 2). Further, the tendency of females to make more visits to the physician was clearly reflected in their higher rate of annual visits. For every 100 persons, there were 130 visits by females. For males, this rate was 95 visits for 100 persons.

Table 4 shows the influence of sex and age on percent and annual rate of visits. Female visits exceeded male visits in every age category except that under 15 years.

White persons (88.5 percent) outnumbered all other persons (11.5 percent) in office visits to GFP's (table 2). The annual rate of office visits was also higher for white persons than for the rest of the population. These data could indicate that members of other races availed themselves more often of other means of ambulatory medical care since the NAMCS includes only office-based care.

Visits described by the joint classification, white and female, were greater than by any other combination of sex and color as shown in table 5.

<sup>&</sup>lt;sup>4</sup>An SMSA is defined as a group of contiguous counties containing at least one city of 50,000 inhabitants or more, or two contiguous cities with a combined population of at least 50,000 inhabitants. The distinction "metropolitan/nonmetropolitan" should not be confused with "urban/suburban" or "urban/rural" since an SMSA may contain urban, suburban, and rural subsections.

Table 2. Number, percent distributions, and number of visits per 100 persons per year to office-based general and family practitioners by type and location of the physician's practice and by age, sex, and color of the patient: United States, January-December 1975

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Selected physician and patient characteristics	Number of visits in thousands		Number of visits per 100 per- sons per year <sup>1</sup>
All visits	234,660	100.0	113
PHYSICIAN CHARACTERISTIC  Type of practice			
SoloOther <sup>2</sup>	171,010 63,650	72.9 27.1	
Location <sup>3</sup>			
MetropolitanNonmetropolitan	136,533 98,127	58.2 41.8	94 146
PATIENT CHARACTERISTIC			
Age Under 15 years	33,772 37,568 56,476 64,502 42,343	14.4 16.0 24.1 27.5 18.0	65 96 108 152 194
<u>Sex</u> Female Male	138,904 95,756	59.2 40.8	130 95
<u>Color</u> WhiteOther <sup>4</sup>	207,660 27,000	88.5 11.5	115 99

<sup>&</sup>lt;sup>1</sup>Based on population estimates for July 1, 1975, Bureau of the Census, <u>Current Population Reports</u>, Series P-25 and P-26.

<sup>2</sup>Includes partnership and group practices.

<sup>3</sup>Signifies location within or outside the standard metropolitan statistical areas (SMSA's).

40f this category, about 81 percent are visits by blacks.

### Major Reasons for Visit

The data concerning the most frequent complaints, symptoms, or other reasons for a patient's visit (table 6) were derived from an item on the survey form that elicited the reason for visit recorded by the physician as nearly as possible in the patient's own words. The broad clinical range of the GFP's practice is demonstrated by the fact that it required 18 reasons to account for only half of all visits.

Table 3. Percent distribution of visits to office-based physicians by location, according to specialty: United States, January-December 1975

Location	Gen- eral and fam- ily prac- tice	Inter- nal medi- cine	Ob- stet- rics and gyne- cology	Pedi- atrics		
	Percent distribution of visits					
Total	100.0	100.0	100.0	100.0		
Metropol- itan Nonmetro- politan	58.2 41.8	84.6 15.4	81.9 18.1	89.1 10.9		

Table 4. Percent and annual rate of visits to office-based general and family practitioners, by sex and age of the patient: United States, January-December 1975

Age of patient	Percent of all visits		rate visit 100	ual of s per per- ns
	Fe- male	<sup>-</sup> Male	Fe- male	Male
Under 15 years 15-24 years 25-44 years 45-64 years Over 65 years	6.5 9.7 15.0 16.8 11.1	7.8 6.3 9.1 10.7 7.0	60 118 133 178 202	69 75 85 123 183

In examining the major reasons for a visit shown in item 8 of the Patient Record form, it is estimated that over 2 million visits at least partly involved family planning, and over 6 million

Table 5. Percent of visits to officebased general and family practitioners, by sex and color: United States, January-December 1975

Color of patient	Percent of all visits		
	Female	Male	
WhiteAll other	52.1 7.1	36.3 4.4	

visits involved prenatal and postnatal care. Only the obstetrician-gynecologist exceeded the GFP in the number of visits for these three reasons.

### **Principal Diagnosis**

Table 7 lists the 25 most common principal diagnoses assigned by GFP's to office visits. These diagnoses constituted about one-half of all visits made to office-based GFP's in 1975.

Table 8 shows the number of principal diagnoses according to major ICDA<sup>5</sup> groups. The following four diagnostic groups account for slightly more than 50 percent of all principal diagnoses rendered:

Diseases of the respiratory system, Special conditions and examinations without sickness,

Diseases of the circulatory system, Accidents, poisonings, and violence.

### Diagnostic and Therapeutic Services

Limited or general histories and examinations were performed during about two-thirds of all general and family practitioner (GFP) office visits (table 9).

Blood pressure checks, performed during 40 percent of all GFP visits, were done frequently

<sup>&</sup>lt;sup>5</sup>Eighth Revision International Classification of Diseases, Adapted for Use in the United States (ICDA).

Table 6. Number, percent, and cumulative percent of visits to office-based general and family practitioners, by the 25 most frequent patient problems, complaints, or symptoms classified by the National Ambulatory Medical Care Survey (NAMCS) symptom classification code: United States, January-December 1975

Rank	Most frequent patient problem, complaint, or symptom and NAMCS code 1	Number of visits in thousands	Percent of visits	Cumulative percent
1 234567890 111231451617189221223245	General and required physical       900,901         Problems of back       415         Throat soreness       520         Problems of lower extremity       400         Abdominal pain       540         Problems of upper extremity       405         Cough       311         Visit for medication       910         Fatigue       004         Cold       312         Headache       056         Pregnancy examination       905         Pain in chest       322         Allergic skin reaction       112         Wounds of skin       116         High blood pressure       205         Surgical aftercare       986         Weight gain       010         Vertigo       dizziness       069         Problems of face, neck       410         Earache       735         Fever       002         Gynecologic examination       904         Shortness of breath       306         Flu       313	11,582 9,535 9,005 8,847 7,279 7,234 7,046 6,436 6,221 6,221 6,919 4,711 4,576 4,432 4,414 3,643 3,554 3,161 3,147 3,087 2,620 2,560	4.1 3.8 3.1 3.0 7.7 6.5 4.1 0.0 9.9 6.5 4.3 1.3 1.3	4.9 9.0 12.8 16.6 19.7 22.8 25.8 28.5 31.2 336.3 38.7 40.8 44.8 44.8 44.8 46.7 50.2 51.7 53.1 54.7 55.9 59.1

<sup>&</sup>lt;sup>1</sup>Symptomatic groupings and code number inclusions are based on a symptom classification developed for use in the NAMCS.

for patients over 44 years of age and rarely for patients under 15 years. For persons over 44 years of age, 53 percent of visits included determination of arterial pressure and in only 10 percent of visits by patients under 15 years was arterial pressure measured. Drugs were the most common form of therapeusis. About 56 percent of visits resulted in administration or prescription of drugs.

### **Prior Visit Status**

Patients tended to remain under the care of the same physician since 7 of 8 visits to GFP's were made by "old" (returning) patients (table 10). Of these, about two-thirds related to problems the physician had treated previously.

### Seriousness of Problem

The data on seriousness of problem expressed the physician's judgment as to the extent of impairment that might result if no care were available for the given problem. They should be viewed in the context of the nature of the specialist's practice.

Problems presented by patients when visiting the office of the GFP tended toward the lower range of the "seriousness" scale (table 10). The largest proportion of visits (48 percent) were

Table 7. Number, percent and cumulative percent of visits to office-based general and family practitioners, by the 25 most common ICDA-coded principal diagnosis: United States, January-December 1975

Rank	Most common principal diagnosis and ICDA code <sup>1</sup>	Number of visits in thou- sands	Per- cent of visits	Cumula- tive percent
2	Medical or special examination	13.904	6.3 5.9	6.3 12.2
,	Acute upper respiratory infection, site unspecified465 Diabetes mellitus250	8,505	3.6	15.8
4	Diabetes mellitus250	5,780	2.5	18.3
5	Medical and surgical aftercareY10	5,602	2.4	20.7
6	Acute pharyngitis462	5,204	2.2	22.9
7	Chronic ischemic heart disease412	5,141	2.2	25.1
8	Other eczema and dermatitis692	5,075	2.2	27.3
9	Influenza, unqualified470	4,927	2.1	29.4
10	Obesity277	4,905	2.1	31.5
11	Neuroses300	4,126	1.8	33.3
12	Bronchitis, unqualified490	3,903	1.7	35.0
13	Acute tonsillitis463	3,884	1.7	36.7
14	Arthritis, unspecified715	3,457	1.5	38.2
15	Cystitis595	3,203	1.4	39.6
16	Otitis media381 Osteoarthritis713	3,087	1.3 1.2	40.9 42.1
17 18	Synovitis, bursitis73	2,895 2,868	1.2	43.3
19	Other nonarticular rheumatism717	2,818	1.2	44.5
20	Diarrheal disease009	2,709	1.2	45.7
21	Menopausal symptoms627	2,562	1.1	46.8
22	Chronic sinusitis503	2,546	1.1	47.9
23	Hay fever507	2,503	1.1	49.0
24	Sprains, strains of sacroiliac region846	2,437	1.0	50.0
25	Inoculations and vaccinationsY02	2,347	1.0	51.0

<sup>&</sup>lt;sup>1</sup>Diagnostic groupings and code number inclusions are based on the <u>Eighth Revision</u> International Classification of Diseases, Adapted for Use in the United States.

rated "not serious" followed by about 35 percent rated "slightly serious." Only 17 percent of visits were judged "serious" or "very serious." Since much of office practice focuses on preventive and maintenance care, this result was predictable.

### Disposition and Duration of Visit

More than half (51 percent) of the visits to the GFP resulted in the specific direction to return at a particular time (table 10). An additional one-third involved followup if needed or followup by telephone. A very small proportion (slightly more than 1 percent) of the GFP's patients were admitted to a hospital. This also supports the findings that ambulatory office care focuses on preventive care and health maintenance with an accompanying small proportion of cases judged "serious."

The average time spent in face-to-face encounter between the GFP and the patient was about 13 minutes, slightly less than the average time for the 13 most-visited specialties. While the duration of most visits was 6-15 minutes (as evidenced by the average), the proportion of visits consuming 16-30 minutes tended to increase as the problems were judged more serious.

Table 8. Number and percent distribution of visits to office-based general and family practitioners, by principal diagnosis classified by ICDA group: United States, January-December 1975

Principal diagnosis and ICDA code <sup>1</sup>	Number of visits in thousands	Percent distribu- tion of visits
All principal diagnoses	234,660	100.0
Infective and parasitic diseases	13,568 3,043 7,064 10,906 29,005 43,304 9,154 14,946 10,721 16,668 9,220 20,168 30,188	1.2 5.8 1.3 3.0 4.7 12.4 18.5 3.9 6.4 4.6 7.1 3.9 8.6 12.9

<sup>&</sup>lt;sup>1</sup>Diagnostic groupings and code number inclusions are based on the <u>Eighth Revision International Classification of Diseases</u>, <u>Adapted for Use in the United States</u>.

<sup>2</sup>Complications of pregnancy, childbirth and the puerperium (630-678), congenital anomalies (740-759), certain causes of perinatal morbidity and mortality (760-779).

<sup>3</sup>Includes blank, noncodeable, and illegible diagnoses.

Table 9. Number and percent distribution of visits to office-based general and family practitioners by diagnostic and therapeutic services ordered or provided: United States, January-December 1975

Diagnostic and therapeutic service ordered or provided	Number of visits in thousands	Percent of visits <sup>1</sup>
All visits	234,660	100.0
No services provided	4,082	1.7
Diagnostic services: Limited history/examination	130,516 29,570 50,618 14,638 94,358 5,418 1,831 3,307 1,474	55.6 12.6 21.6 6.2 40.2 2.3 0.8 1.4 0.6
Therapeutic services:  Drug administered or prescribed Injection Immunization/desensitization Office surgery Physiotherapy Medical counseling Psychotherapy/therapeutic listening	130,479 50,476 8,659 12,113 7,834 27,378 6,715	55.6 21.5 3.7 5.2 3.3 11.7 2.9
Other services provided	8,451	3.6

 $<sup>^1\</sup>mathrm{Percents}$  will not add to 100 because most patient visits required the provision of more than one treatment or service.  $^2\mathrm{Includes}$  prescription and nonprescription drugs.

Table 10. Number and percent distributions of visits to office-based general and family practitioners by prior-visit status, seriousness of problem, disposition and duration of visit: United States, January-December 1975

Selected visit characteristics	Number of visits in thousands	Percent dis- tributions of visit
All visits	234,660	100.0
Prior-visit status		
Patient seen for the first time	29,847 71,446 133,367	12.7 30.5 56.8
Seriousness of problem		
Serious and very serious	39,941 82,440 112,279	17.0 35.1 47.9
Disposition 1		
No followup planned	36,326 120,379 68,444 8,658 6,957 2,861 2,276	51.3 29.2 3.7 3.0 1.2
Duration of visit <sup>3</sup>		
0 minutes	3,885 48,156 79,964 58,478 39,815 4,362	20.5 34.1 24.9 17.0

 $<sup>^{1}\</sup>mathrm{Percents}$  will not add to 100 because some patient visits had more than one disposition.

tion.

<sup>2</sup>Includes return to referring physician.

<sup>3</sup>Signifies time spent in face-to-face encounter between physician and patient.

### **TECHNICAL NOTES**

SOURCE OF DATA: Data presented in this report were obtained during 1975 through the National Ambulatory Medical Care Survey (NAMCS). The target population of NAMCS encompasses office visits within the conterminous United States made by ambulatory patients to physicians who are principally engaged in office practice.

SAMPLE DESIGN: The 1975 NAMCS utilized a multistage probability design that involved samples of primary sampling units (PSU's), physician practices within PSU's, and patient visits within practices. Within the 87 PSU's composing the first stage of selection, a sample of approximately 3,500 physicians was selected from master files maintained by the American Medical Association and the American Osteopathic Association. Sampled physicians, randomly assigned to 1 of the 52 weeks in the survey year, were requested to complete Patient Records (brief encounter forms) for a systematic random sample of office visits taking place within their practice during the assigned reporting period. (A facsimile of the Patient Record used is shown in a previous issue of Advance Data From Vital and Health Statistics, No. 12, October 12, 1977.) Additional data concerning physician practice characteristics such as primary specialty and type of practice were obtained during an induction interview.

A complete description of the survey's background and development has been presented in an earlier publication in Series 2 of Vital and Health Statistics (No. 61. DHEW Pub. No. (HRA) 76-1335. Health Resources Administration. Washington. U.S. Government Printing Office, Apr. 1974). A detailed description of the 1975 NAMCS design and procedures will be presented in future publications.

SAMPLING ERRORS: Since the estimates for this report are based on a sample rather than the entire universe, they are subject to sampling variability. The standard error is primarily a measure of sampling variability. 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 percent of the estimate. Relative standard errors of selected aggregate statistics are shown in table I. The standard errors appropriate for the estimated percentages of office visits are shown in table II.

Table I. Approximate relative standard errors of estimated numbers of office visits

Estimate in thousands	Relative standard error in percentage points
500	30,1
1,000	21.4
2,000	15.3
5,000	10.0
10,000	7 <i>.</i> 5
30,000	5.1
100,000	4.0
550,000	3.5

Example of use of table: An aggregate of 80,000,000 has a relative standard error of 4.3 percent or a standard error of 3,440,000 (4.3 percent of 80,000,000).

Table II. Approximate standard errors of percentages for estimated numbers of office visits

Base of percentage (number of visits in thousands)	Estimated percentage					
	1 or 99	5 or 95	10 or 90	20 or 80	30 or 70	50
1,000	2.1	4.6	6.3	8.5	9.7	10.6
3,000	1.2	2.7	3.7	4.9	5.6	6.1
5,000	0.9	2.1	2.8	3.8	4.3	4.7
10,000	0.7	1.5	2.0	2.7	3.1	3.3
50,000	0,3	0.7	0.9	1.2	1.4	1.5
100,000	0,2	0.5	0.6	0.8	1.0	1.1
500,000	0.1	0.2	0.3	0.4	0.4	0.5

Example of use of table: An estimate of 30 percent based on an aggregate of 75,000,000 has a standard error of 1.2 percent. The relative standard error of 30 percent is 4.0 percent (1.2 percent÷30 percent).

ROUNDING: Aggregate estimates of office visits presented in the tables are rounded to the nearest thousand. The rates and percents, however, were calculated on the basis of original, un-

rounded figures. Due to rounding of percents, the sum of percentages may not equal 100.0 percent.

DEFINITIONS: An ambulatory patient is an individual presenting himself for personal health services who is neither bedridden nor currently admitted to any health care institution on the premises.

An office is a place that the physician identifies as a location for his ambulatory practice. Responsibility over time for patient care and professional services rendered there generally resides with the individual physician rather than an institution.

A visit is a direct personal exchange between

an ambulatory patient and a physician or a staff member working under the physician's supervision for the purpose of seeking care and rendering health services.

A physician is a duly licensed doctor of medicine (M.D.) or doctor of osteopathy (D.O.) currently in practice who spends time in caring for ambulatory patients at an office location. Excluded from NAMCS are physicians who specialize in anesthesiology, pathology, radiology; physicians who are federally employed; physicians who treat only institutionalized patients; physicians employed full time by an institution; and physicians who spend no time seeing ambulatory patients.

# SYMBOLS Data not available .... Category not applicable .... Quantity zero .... Quantity more than 0 but less than 0.05 .... Figure does not meet standards of reliability or precision \*

### Recent Issues of Advance Data From Vital and Health Statistics

- No. 14. Weight by Height and Age of Adults 18-74 Years in the United States in 1971-74 (Issued: November 30, 1977)
- No. 13. Ambulatory Medical Care Rendered in Pediatricians' Offices in the United States, 1975 (Issued: October 13, 1977)
- No. 12. Ambulatory Medical Care Rendered in Physicians' Offices in the United States, 1975 (Issued: October 12, 1977)
- No. 11. Pregnant Workers in the United States (Issued: September 15, 1977)
- No. 10. Expected Size of Complete Family Among Currently Married Women 15-44 Years of Age in the United States in 1973 (Issued: August 12, 1977)

A complete list of Advance Data From the Vital and Health Statistics is available from the Scientific and Technical Information Branch.