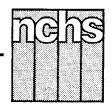
# Advance Data



From Vital and Health Statistics of the National Center for Health Statistics

### Office Visits by Adolescents

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#### Introduction

This report examines 1985 statistics from the United States on the health care provided to adolescents by office-based physicians. The data are collected by means of the National Ambulatory Medical Care Survey (NAMCS), a year-long probability sample survey of private office-based physicians. This survey was conducted annually from 1978 through 1981 and again in 1985 by the Division of Health Care Statistics of the National Center for Health Statistics. NAMCS resumed as an annual survey in 1989. For purposes of this report, an adolescent visit is defined as a visit by a patient 11-20 years of age. Older adolescents are defined as patients 15-20 years of age and younger adolescents as patients 11-14 years of age.

In 1985 in the United States, 58 million visits (9 percent of all patient visits) to office-based physicians were made by adolescent patients. Visits by adolescents were reflective of the demographic profile of all patient visits to private, office-based physicians: primarily non-Hispanic, white, and female (table 1). Health

Table 1. Number of office visits made by persons of all ages and by adolescents 11–20 years of age and percent distribution by patient's sex, race, and ethnicity, according to age: United States, 1985

Sex, race, and ethnicity	All ages	11–20 years	11–14 years	15–20 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent di	stribution	
All visits	100.00	100.00	100.00	<i>&gt;</i> 100.00
Sex				
Female	60.89 39.11	57.39 42.61	50.07 49.93	60.96 39.04
Race				
White	89.96 8.19 1.84	89.29 8.76 1.95	90.78 7.47 1.74	88.57 9.39 2.05
Ethnicity				
Hispanic	6.38 93.62	7.52 92.48	6.22 93.78	8.15 91.85

care visits by patients 11–14 years of age were like those of children, and health care visits by patients 15–20 years of age were like those of young adults.

### Physician specialty and visit status

Younger adolescents primarily sought medical care from pediatricians and general and/or

family practitioners (table 2). The older adolescent patient generally sought care not only from pediatricians and general and/or family practitioners but also from physicians specializing in obstetrics and gynecology and dermatology. Sixty-six percent of the visits by the older adolescent patient were to these four types of specialists. An almost equal percent of visits by the younger





Table 2. Number of office visits made by persons of all ages and by adolescents 11–20 years of age and percent distribution by physician specialty, according to age: United States, 1985

Specialty	All ages	11–20 years	11–14 years	15–20 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent d	istribution	
All visits	100.00	100.00	100.00	100.00
General and/or family practice	30.48	35.40	30.79	37.65
Internal medicine	11.59	5.14	4.01	5.70
Pediatrics	11.42	17.60	33.33	9.91
Obstetrics and gynecology	8.90	8.05	1.27	11.36
Ophthalmology	6.30	4.62	4.91	4.48
Orthopedic surgery	4.95	7.32	8.03	6.98
General surgery	4.69	3.70	2.09	4.49
Dermatology	3.79	6.48	3.69	7.84
Psychiatry	2.83	2.00	1.85	2.07
Otorhinolaryngology	2.53	2.56	2.88	2.40
Urological surgery	1.84	0.59	0.48	0.64
Cardiovascular disease	1.67	0.13	0.00	0.19
Neurology	0.78	0.63	0.69	0.59
All other specialties	8.24	5.78	5.98	5.68

adolescent patient (64 percent) were to physicians specializing in pediatrics and general and/or family practice.

There was a significant difference between the percent of visits by younger adolescents and the percent by older adolescents to physicians specializing in pediatrics and obstetrics and gynecology. As expected, younger adolescent patients were more likely to seek medical care from pediatricians, and older adolescent patients were more likely to seek medical care from obstetricians and gynecologists. Thirty-three percent of the visits by the younger adolescent patient were to physicians specializing in pediatrics, and only 1 percent were to physicians specializing in obstetrics and gynecology. Eleven percent of the visits by older adolescent patients were to obstetricians and gynecologists, and only 9 percent were to pediatricians.

The percents of visits to dermatologists by the younger adolescent patient and by the older adolescent patient were 3 percent and 7 percent, respectively. Thirty percent of the visits by younger adolescents were to general and/or family practitioners, compared with 37 percent by older adolescents.

Twenty-three percent of the visits by adolescents were classified as "first-time" visits, or as "new-patient" visits. Assuming all new-patient visits presented the physician with a new medical problem, at least 50 percent of the visits by adolescents were for care of a new medical problem (table 3). New problem visits for patients of all ages accounted for 39 percent of the total number of visits.

#### Patient's reason for visit

General medical or physical examination was the major reason adolescents visited a physician's office (table 4), accounting for 5.4 million visits. This ranked as the principal reason for visit for all adolescent patients, especially younger adolescent patients.

Routine prenatal examination was the reason given most often among older adolescent patients for visiting a physician, accounting for 3.3 million visits. There were a total of 3.4 million adolescent visits in which a routine prenatal examination was given as the principal reason for visit; and 98 percent of these were by older adolescents. Symptoms referable to throat ranked as the second most frequent reason given by older adolescents for visiting a physician—4.2 million adolescent visits, or 7 percent.

Another major reason for visit by the older adolescent was for acne or pimples. Of the 2.4 million visits made by adolescents for this reason, 2.1 million (or 86 percent) were made by older adolescents.

Visits by younger adolescents in which general medical or physical examination was the principal reason totaled 2.5 million. About half, 1.1 million, of these visits were specifically for physical examination: 836,000 visits were for physical examinations for extracurricular activities and 273,000 were for physical examinations required for school. Older adolescents made 2.8 million visits in which the reason for visit was specifically for a physical examination: 421,000 were for physical examinations for extracurricular activities, 378,000 were for physical examinations required for

Table 3. Number of office visits made by persons of all ages and by adolescents 11–20 years of age and percent distribution by patient's referral status and prior visit status, according to age: United States, 1985

Referral status and prior visit status	All ages	11–20 years	11–14 years	15–20 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent di	stribution	
All visits	100.00	100.00	100.00	100.00
Referral status				
Referred by another physician Not referred by another physician	5.62 94.38	5.56 94.44	5.73 94.27	5.48 94.52
Prior visit status				
New patient	16.91 83.09 22.73 60.36 39.64 60.36	23.01 76.99 29.42 47.58 52.42 47.58	22.54 77.46 34.45 43.01 56.99 43.01	23.24 76.76 26.96 49.81 50.19 49.81

Table 4. Number and percent distribution of office visits made by adolescents 11-20 years of age by most frequent principal reason for visit, according to age: United States, 1985

Age, principal reason for visit, and RVC code <sup>1</sup>	Number of visits in thousands	Percent distribution
Age, principal reason for visit, and AVC code	inousanus	aistributioi
11-20 years		
All visits	58,996	100.00
General medical and physical examinationX100, <sup>2</sup> A100-A140	5,440	9.22
Symptoms referable to throat	4,277	7.25
Prenatal examination, routine	3,435	5.82
Acne or pimples	2,455 1,460	4.16 2.47
Earache or ear Infection	1,359	2.30
Skin rash	1,298	2.20
Knee symptoms	1,076	1.82
Allergy medication	1,065	1.81
Headache, pain in head	949 945	1.61 1.60
Warts, not otherwise specified	859	1.46
Allergy, not otherwise specified	812	1.38
Post-operative visit	772	1.31
Eye examination	725	1.23
Head cold, upper respiratory infection (CORYZA)S445	720	1.22
Vision dysfunctions	671	1.14
Suture – insertion, removal	606 571	1.03
Fever	571 565	0.97 0.96
• •		
All other reasons	28,934	49.04
11–14 years		
All visits	19,360	100.00
General medical and physical examinationX100, <sup>2</sup> A100-A140	2,562	13.23
Symptoms referable to throat	1,622	8.38
Cough	758	3.91
Skin rash	557	2.88
Earache or ear infection	526	2.72
Allergy, not otherwise specified	470	2.43
Knee symptoms	436	2.25 1.86
Allergy medication	360 339	1.75
Vision dysfunctions	308	1.59
Warts, not otherwise specified	304	1.57
Headache, pain in head	296	1.53
Nasal congestion	288	1.49
Head cold, upper respiratory infection (CORYZA)S445	266	1.37
Abdominal pain, cramps, spasms	250 234	1.29 1.21
Foot and toe symptoms	224	1.16
Post-operative visit	214	1.10
Eye examination	210	1.09
Back symptoms	209	1.08
All other reasons	8,930	46.12
	-,	
15–20 years		
All visits	39,637	100.00
Prenatal examination, routine	3,391	8.55
General medical and physical examinationX100, A100-A140 Symptoms referable to throat	2,878 2,655	7.26 6.70
Acne or pimples	2,117	5.34
Earache or ear infection	833	2.10
Skin rash	742	1.87
Allergy medication	705	1.78
Sough	702	1.77
Headache, pain in head	653	1.65
Narts, not otherwise specified	641 640	1.62 1.61
Abdominal pain, cramps, spasms	609	1.54
Post-operative visit	559	1.41
Eye examination	515	1.30
Head cold, upper respiratory infection (CORYZA)S445	454	1.15
Fever	375	0.95
Suture – Insertion, removal	372	0.94
/Islon dysfunctions	363 357	0.92 0.90
Back symptoms	343	0.86
All other reasons	19,734	49.79

<sup>&</sup>lt;sup>1</sup>Based on Schnelder D, Appleton A, and McLemore T. A reason for visit classification for ambulatory care. National Center for

school, and 345,000 were for physical examinations required for employment.

Cough was another complaint that characterized visits by younger adolescents. Cough, as a principal reason for visit, accounted for 758,000 (3 percent) visits by younger adolescents and for 702,000 (1 percent) visits by older adolescents.

#### Diagnostic services and physician's diagnosis

No diagnostic services were ordered or provided by the physician in 42 percent of all adolescent visits. In addition, no diagnostic services were ordered or provided in 48 percent of the visits by younger adolescents and in 39 percent of the visits by older adolescents (table 5).

The diagnostic services most often ordered or provided were blood pressure check and urinalysis. The older adolescent patient, however, was more likely to receive a blood pressure check than the younger adolescent patient. Blood pressure checks were given in 34 percent of the visits by older adolescents and in 19 percent of the visits by younger adolescents. As expected, older adolescents were also more likely to receive some type of gynecological examination. In 12 percent of the visits by older adolescents, patients received diagnostic services of a pelvic examination; and in 6 percent, a breast examination. Only in 1 percent of the visits by younger adolescents did they receive diagnostic services of a breast examination or a pelvic examination.

Normal pregnancy was the principal diagnosis made by the physician during 3.4 million adolescent visits (5 percent) (table 6). Normal pregnancy ranked as the principal diagnosis made during visits by all adolescent patients, especially the older adolescent patient, for whom 3.3 million such diagnoses (or 8 percent) were made.

Aside from normal pregnancy, other diagnoses that were rendered more often during visits by older adolescents than during visits by

Health Statistics, Vital and Health Stat 2(78), 1979.

Reason for visit classification (RVC) code X100 is general medical examination and codes A100-A140 are physical examination. required for employment, for school, for extracurricular activities, for driver's license examination, for disability examination, and for premarital examination.

Table 5. Number of office visits made by people of all ages and by adolescents 11–20 years of age and percent distribution by diagnostic services ordered or provided, according to age: United States, 1985

Diagnostic services <sup>1</sup>	All ages	11–20 years	11–14 years	15–20 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent di	stribution	
All visits	100.00	100.00	100.00	100.00
None	36.14	42.15	48.17	39.21
Breast exam	6.78	5.16	1.63	6.89
Pelvic exam	8.62	8.83	1.81	12.26
Rectal exam	5.37	2.67	1.00	3.48
Visual acuity	6.43	7.10	9.02	6.17
Urinalysis	13.83	15.61	13.92	16.44
Hematology	9.27	9.87	10.74	9,44
Blood chemistry	6.90	3.99	3.00	4.47
Pap test	4.49	4.00	0.63	5.64
Other lab test	8.41	11.29	11.81	11.03
Blood pressure check	38.64	29.43	19.97	34.06
EKG	3.19	0.49	0.37	0.55
Chest x ray	2.76	1.11	1.10	1.12
Other radiology	5.94	6.87	8.41	6.11
Ultrasound	0.94	0.74	0.40	0.90
Other	10.65	8.23	5.95	9.34

<sup>&</sup>lt;sup>1</sup>May not add to 100.00 because more than one diagnostic service was possible during the patient visit.

younger adolescents were diseases of the sebaceous glands; disorders of urethra and urinary tract; contraceptive management; special investigation and examination (principally gynecological); and inflammatory disease of cervix, vagina, and vulva.

General medical examination was the principal diagnosis rendered in 3.3 million adolescent visits (5 percent). General medical examination accounted for 1.4 million younger adolescent visits (7 percent) and ranked as the number one diagnosis during visits by younger adolescents. There were 1.9 million visits (6 percent) by older adolescents for general medical examination.

#### Nonmedication therapy

Nonmedication therapy was ordered or provided in only 31 percent of the adolescent visits. The nonmedication therapy services given most often were ambulatory surgery and other counseling (table 7).

The nonmedication therapies family planning and diet counseling were each ordered or provided in 3 percent of the visits by adolescents. Ninety-five percent and 79 percent, respectively, of the adolescent visits

for family planning service or diet counseling services were by older adolescent patients.

### Disposition and duration of visit

The mean durations of visit for adolescent patients and all patients were 14 minutes and 16 minutes, respectively. Approximately 62 percent of the visits by adolescents had a duration of 6 to 15 minutes. A "return" disposition was given in 78 percent of the visits by adolescents. The disposition "Return at a specified time" was given to adolescent patients in 49 percent of the office visits (table 8).

#### **Medication therapy**

Medication was ordered or provided in more than 50 percent of the 58 million visits made by adolescents (table 9). These 31 million drug visits produced 46 million drug mentions, representing a drug visit rate of 1.4 drugs per drug visit. The 46 million drug mentions associated with adolescent visits represented 6 percent of all drugs mentioned in all visits by patients of all ages.

The drugs ordered or provided to adolescent patients were generally characterized as antibiotics (table 10). However, drug mentions of tuberculin tine test (a tuberculin skin test) and diphtheria tetanus toxoids (an immunization) were more likely associated with younger adolescents. Drug mentions of Ortho-novum (a contraceptive) and Retin-A (an acne treatment) were more likely associated with older adolescents. The antibiotics mentioned most frequently during visits by adolescents were tetracycline, amoxicillin, ampicillin, amoxil, Pen-Vee K, E.E.S. (erythromycin ethylsuccinate), erythromycin, and Keflex.

#### Summary

The profile of visits by older adolescents was quite different from that by younger adolescents. Older adolescents differed with respect to the male-to-female ratio (40:60), the specialists from whom they sought medical care (obstetricians), their reasons for visiting the physician (prenatal care, acne), the diagnoses rendered (pregnancy), the nonmedication services provided (family planning, diet counseling), and the medications prescribed (antibiotics, Ortho-novum, Retin-A). Comparatively, younger adolescents sought medical care primarily from pediatricians, the male-to-female ratio was 50:50, the principal reasons for visiting the physician were for a general medical or physical examination or a cough, and antibiotics and immunizations were frequently ordered or provided.

Table 6. Number and percent distribution of office visits made by people of all ages and by adolescents 11–20 years of age by the 15 most frequent principal diagnoses, according to age: United States, 1985

	Number of visits in	Percent
Age, principal diagnosis, and ICD-9-CM code <sup>1</sup>	thousands	distributior
11–20 years		
All visits	58,996	100.00
Normal pregnancy	3,424	5.80
General medical examination	3,375	5.72
Diseases of sebaceous glands	2,888	4.90
Acute pharyngitis	1,814	3.07
unspecified sites	1.806	3.06
Other diseases due to viruses and chlamydiae	1,424	2.41
Allergic rhinitis	1,356	2.30
Disorders of refraction and accommodation	1,231	2.09
Suppurative and unspecified otitis media	1,141	1.93
Certain adverse effects, not elsewhere classified	1,038	1.76 1.71
Contact dermatitis and other eczema	1,011 893	1.51
Health supervision of infant or child	853	1.45
Other disorders of urethra and urinary tract	678	1.15
Disorder of external ear	657	1.11
All other diagnoses	35,408	60.02
11–14 years	10.260	100.00
All visits	19,360	
General medical examination	1,433	7.40
Acute pharyngitis462 Acute upper respiratory infections of multiple or	709	3.66
unspecified sites	637	3.29
Certain adverse effects, not elsewhere classified	555 552	2.87 2.86
Allergic rhinitis	553 527	2.00 2.72
Contact dermatitis and other eczema	475	2.46
Suppurative and unspecified otitis media	473	2.44
Other diseases due to viruses and chlamydiae	459	2.37
Disorders of refraction and accommodation	458	2.37
Diseases of sebaceous glands	401	2.07
Curvature of spine	311	1.61
Acute tonsillitis	308	1.59
Streptococcal sore throat and scarlet fever	300	1.55 1.53
Asthma	297	
All other diagnoses	11,464	59.21
15-20 years		
All visits ,	39,637	100.00
Normal pregnancy	3,391	8.56
Diseases of sebaceous glands	2,487	6.27
General medical examination	1,942	4.90
unspecified sites	1,169	2.95
Acute pharyngitis	1,105	2.79
Other diseases due to viruses and chlamydiae	965	2.43
Allergic rhinitis	803	2.03
Disorders of refraction and accommodation	772	1.95
Suppurative and unspecified otitis media	668	1.68
Acute tonsillitis	585 547	1.48 1.38
Other disorders of urethra and urinary tract	547 535	1.38 1.35
Contraceptive management	535 510	1.33
Certain adverse effects, not elsewhere classified	483	1.22
Special investigations and examinations	464	1.17
All other diagnoses		
All OTHER DIAGNOSES	23,208	58.55

<sup>&</sup>lt;sup>1</sup>Based on Public Health Service and Health Care Financing Administration. International Classification of Diseases, 9th Rovision, clinical modification (ICD-9-CM), Washington: Public Health Service. 1980.

Primarily allergy, unspecified (995.3).

Primarily gynecological examination (V72.3).

Table 7. Number of office visits made by persons of all ages and by adolescents 11–20 years of age and percent distribution by the nonmedication therapy ordered or provided, according to age: United States, 1985

Nonmedication therapy <sup>1</sup>	All ages	1120 years	11–14 years	1520 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent di	istribution	
All visits	100.00	100.00	100.00	100.00
None	68.89	69.33	75.05	66.53
Physiotherapy	4.16	4.10	3.53	4.39
Ambulatory surgery	6.59	8.93	7.98	9.40
Radiation therapy	0.10	0.09	0.13	0.07
Psychotherapy	3.35	2.23	1.71	2.48
Family planning	1.91	3.42	0.49	4.85
Diet counseling	6.49	3.69	2.28	4.38
Other counseling	9.29	8.82	8.39	9.03
Corrective lenses	1.71	1.60	1.57	1.62
Other	1.22	1.33	1.73	1.13

<sup>&</sup>lt;sup>1</sup>May not add to 100.00 because more than one nonmedication therapy was possible during the patient visit.

Table 8. Number of office visits made by persons of all ages and by adolescents 11-20 years of age by duration and disposition of the visit, according to age: United States, 1985

Duration and disposition of visit	All ages	11–20 years	11–14 years	15–20 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent di	stribution	
All visits	100.00	100.00	100.00	100.00
Duration				
Zero minutes 1 1–5 minutes 6–10 minutes 11–15 minutes 16–30 minutes. 31 minutes or more	2.27 10.25 28.47 30.01 22.66 6.34	3.12 13.64 31.95 29.64 17.76 3.88	3.98 13.67 31.62 30.56 16.68 3.50	2.70 13.62 32.12 29.19 18.29 4.07
Disposition <sup>2</sup>				
No followup Return at specified time Return if needed Telephone followup. Refer to another physician Return to referring physician Admit to hospital Other	9.76 61.46 22.87 3.96 3.15 0.78 1.62	16.45 49.65 28.68 3.94 2.08 0.31 0.98	21.30 42.92 29.77 4.66 2.36 0.45 0.80	14.07 52.93 28.14 3.58 1.94 0.25 1.07

<sup>&</sup>lt;sup>1</sup>Represents office visits in which there was no face-to-face contact between the patient and the physician. <sup>2</sup>May not add to 100.00 because more than one disposition was possible during the patient visit.

Table 9. Number of office visits made by persons of all ages and by adolescents 11–20 years of age by number of medications ordered or provided, according to age: United States, 1985

Number of medications	All ages	11–20 years	11–14 years	15–20 years
Number of visits in thousands	636,386	58,996	19,360	39,637
		Percent di	Percent distribution	
All visits	100.00	100.00	100.00	100.00
0	38.81	45.96	50.65	43.67
1	33.45	35.85	33.33	37.08
2	15.99	13.18	11.39	14.06
3 or more	11.75	5.00	4.63	5.18

Table 10. Number, percent distribution, and therapeutic use of drug mentions, by age and the most frequent drug entry for adolescents 11–20 years of age: United States, 1985

Age and entry name <sup>1</sup> of drug	Number of mentions in thousands	Percent distribution	Therapeutic use
11–20 years			
All drug entries	46,705	100.00	•••
Tetracycline	1,229	2.63	Antibiotic
Amoxicillin	1,118	2.39	Antibiotic
Ampicillin	877	1.88	Antibiotic
Ortho-novum	859	1.84	Oral contraceptive
Amoxil	839	1.80	Antibiotic
Pen-Vee K	790	1.69	Antibiotic Antibiotic
E.E.S. (erythromycin ethylsuccinate)	743 742	1.59 1.59	Antibiotic
Erythromycin	742 721	1.59	Antibiotic
Retin-A	619	1.39	Acne treatment
All other mentions	38,168	81.72	
	30,100	01.72	•••
11–14 years All drug entries	13,976	100.00	• • •
*	·		
AmoxII	405	2.90 2.73	Antibiotic Antibiotic
Amoxicillin	381 271	2.73 1.94	Antibiotic
Tuberculin tine test	255	1.83	Tuberculosis skin test
Keflex	236	1.69	Antibiotic
Ampleillin	226	1.62	Antibiotic
Cortisporin	223	1.60	Anti-inflammatory and anti- bacterial agent
Diphtheria tetanus toxoids	215	1.54	Immunization
House dust concentrate bulk treatment	209	1.50	Allergenic extract, immunotherap
Benadryl	209	1.49	Antihistaminic
All other mentions	11,554	82.67	•••
15–20 years			
All drug entries	32,729	100.00	•••
Tetracycline	1,022	3.12	Antibiotic
Ortho-novum	789	2.41	Oral contraceptive
Amoxicillin	737	2.25	Antibiotic
Ampleillin	651	1.99	Antibiotic
Pen-Vee K	610	1.87	Antibiotic
Erythromycln	548	1.67	Antibiotic
Keflex	485 470	1.48	Antibiotic
E.E.S. (erythromycin ethylsuccinate) Retin-A	472 454	1.44 1.39	Antibiotic Acne treatment
Amoxil	434 434	1.33	Antibiotic
All other mentions	26,961	82.38	

<sup>&</sup>lt;sup>1</sup>The trade or generic name used by the physician on the prescription or other medical records. The use of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services. Because of its nonspecific nature, the entry "Allergy relief or shots" with 1,459,000 mentions is omitted (655,000 mentions for persons 11–14 years of age and 803,000 mentions for those 15–20 years of age).

#### **Technical notes**

### Source of data and sample design

The information presented in this report is based on data collected by means of the National Ambulatory Medical Care Survey (NAMCS) from March 1985 through February 1986. The target universe of NAMCS includes office visits made within the coterminous United States by ambulatory patients to nonfederally

employed physicians who are principally engaged in office practice but not in the specialties of anesthesiology, pathology, or radiology. Telephone contacts and nonoffice visits are excluded.

A multistage probability sample design is used in NAMCS, involving samples of primary sampling units (PSU's), physician practices within PSU's, and patient visits within physician practices. For 1985, a sample of 5,032 non-Federal, office-based physicians was selected from

master files maintained by the American Medical Association and the American Osteopathic Association. The physician response rate for the 1985 NAMCS was 70.2 percent. Sample physicians were asked to complete patient records (see figure) for a systematic random sample of office visits occurring during a randomly assigned 1-week reporting period. Responding physicians completed 71,594 patient records. Characteristics of the physician's practice, such as primary

Assurance of Confidentiality—All information which would permit identificati individual, a practice, or an establishment will be held confidential, will be by persons engaged in and for the purposes of the survey and will not be dis released to other persons or used for any other purpose.	used only	Department of Health ar Public Health National Center for H	Service	A	
1. DATE OF VISIT  // Month Day Year NATI		MBULATOR'	RECORD Y MEDICAL (	CARE SURVEY	OMB No. 0937-0141 Expires 9/30/86 (PHS) 6105-A 456-232
2. DATE OF BIRTH  3. SEX  4. COLOR OF RACE  1 WHITE  2 BLACK 3 ASIAN/PACIFIC ISLANDER  4 AMERICAN IN ALASKAN NAT	c 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HISPANIC ORIGIN  NOT HISPANIC	MEDICARE 5 OTHER	CROSS/ 7 NO CHARGE	7. WAS PATIENT REFERRED FOR THIS VISIT BY ANOTHER PHYSICIAN?  1 YES 2 NO
PATIENT'S COMPLAINT(S), SYMPTOM(S), OR OTHER REASON(S) FOR THIS VISIT [In patient's own words]      MOST IMPORTANT  b. OTHER		GLUCOSE TESTS THIS VISIT [Check all ordered or provided]  1 NONE 2 BLOOD 3 URINE		7 HEMATOLOGY	VISIT  11 BLOOD PRESSURE CHECK  12 EKG  13 CHEST X-RAY  14 OTHER RADIOLOGY  15 ULTRASOUND  16 OTHER SERVICE [Specify]
11. PHYSICIAN'S DIAGNOSES	12. HAVE	4 ORAL E YOU SEEN ENT BEFORE?		ITION THERAPY vices ordered or provided this	visit)
PRINCIPAL DIAGNOSIS/PROBLEM ASSOCIATED     WITH ITEM 8a.	1 YES	2 NO 1	NONE PHYSIOTHERAPY	5 PSYCHOTHERAPY 6 FAMILY PLANNING	9 CORRECTIVE LENSES  10 OTHER   Specify
b. OTHER SIGNIFICANT CURRENT DIAGNOSES	THE CONDITION 11a?	ITION IN		PRY 7 DIET COUNSELING  8 OTHER COUNSELING	
14. MEDICATION THERAPY [Record all new or continuous visit. Use the same brand name or generic name entere IF NONE, CHECK HERE ]	ed on any Rx or	office medical recor	DR DX	DISPOSITION THIS VISIT Check all that apply) FOLLOW-UP PLANNED  URN AT SPECIFIED TIME  URN IF NEEDED, PR.N.  EPHONE FOLLOW-UP PLANNED  ERRED TO OTHER PHYSICIAN  URNED TO REFERRING PHYSICIAN	16. DURATION OF THIS VISIT [Time actually spent with physician]
		_   _	—   °∟		

Figure. 1985 National Ambulatory Medical Care Survey Patient Record

specialty and type of practice, were obtained during an induction interview. The National Opinion Research Center, under contract to NCHS, was responsible for the survey's data collection and processing.

#### Adjustments for nonresponse

Estimates from NAMCS data were adjusted to account for sample physicians who were in scope but did not participate in the study. This adjustment was calculated to minimize the impact of response on final estimates by imputing to nonresponding physicians the practice characteristics of similar responding physicians. For this purpose, physicians were judged similar if they had the same specialty designation and practiced in the same PSU.

#### Sampling errors

The standard error is primarily a measure of the sampling variability that occurs by chance when only a sample rather than an entire universe is surveyed. The relative standard error of an estimate is obtained by dividing the standard error by the estimate itself; the result is then expressed as a percent of the estimate. These measurements are applied to office visits in table I; in table II they are applied to drug mentions.

Table I. Relative standard errors of estimated numbers of office visits based on all physician specialties: National Ambulatory Medical Care Survey, 1985

Estimated number of office visits in thousands	Relative standard error in percent
200	37.8 24.1 17.2 12.5 8.5 6.6 5.4 4.5
100,000	4.2 3.9

Example of use of table: An aggregate estimate of 15,000,000 visits has a relative standard error of 6.0 percent, or a standard error of 900,000 visits (6.0 percent of 15,000,000 visits).

Table II. Relative standard errors of estimated numbers of drug mentions based on all physician specialties: National Ambulatory Medical Care Survey, 1985

Estimated number of drug mentions in thousands	Relative standard error in percent
300	39.8 30.9 22.1 15.9 10.6 8.1 6.5 5.3 4.9

Example of use of table: An aggregate estimate of 15,000,000 drug mentions has a relative standard error of 7.3 percent, or a standard error of 1,095,000 drug mentions (7.3 percent of 15,000,000 drug mentions).

## Test of significance and rounding

In this report, the determination of statistical significance is based on a two-sided t-test with a critical value of 1.96 (0.05 level of confidence). Terms relating to difference, such as "greater than" or "less than," indicate that the difference is statistically significant. In the tables, estimates of office visits have been rounded to the nearest thousand. Consequently, estimates will not always add to totals. Rates and percent were calculated from original unrounded figures and do not necessarily agree with percents calculated from rounded data.

#### **Definition of terms**

An ambulatory patient is an individual seeking personal health services who is not currently admitted to any health care institution.

A physician is a duly licensed doctor of medicine (M.D.) or doctor of osteopathy (D.O.) who is currently in office-based practice, and who spends some time caring for ambulatory patients. Excluded from NAMCS are physicians who are hospital based; who specialize in anesthesiology, pathology, or radiology; who are federally employed; who treat only institutionalized patients; who are

employed full time by an institution; and who spend no time seeing ambulatory patients.

An office is a place that physicians identify as a location for their ambulatory practice; these customarily include consultation, examination, or treatment spaces the patient associates with the particular physician. Responsibility for patient care and professional services rendered in an office resides with the individual physician rather than with 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 personal health services.

A drug mention is the physician's entry of a pharmaceutical agent—by any route of administration—for prevention, diagnosis, or treatment. Generic as well as brand name drugs are included, as are nonprescription and prescription drugs. Along with all new drugs, the physician also records continued medications if the patient was specifically instructed during the visit to continue the medication.

A drug visit is a visit in which medication was prescribed or provided by the physician.

#### **Symbols**

- --- Data not available
- . . Category not applicable
- Quantity zero
- 0.0 Quantity more than zero but less than 0.05
- Z Quantity more than zero but less than 500 where numbers are rounded to thousands
- Figure does not meet standard of reliability or precision

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