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# National Health Statistics Reports

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Number 27 ■ November 3, 2010

## National Ambulatory Medical Care Survey: 2007 Summary

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### Abstract

**Objectives**—This report describes ambulatory care visits made to physician offices in the United States. Statistics are presented on selected characteristics of the physician's practice, the patient, and the visit.

**Methods**—The data presented in this report were collected in the 2007 National Ambulatory Medical Care Survey (NAMCS), a national probability sample survey of visits to nonfederal office-based physicians in the United States. Sample data are weighted to produce annual national estimates of physician visits.

**Results**—During 2007, an estimated 994.3 million visits were made to physician offices in the United States, an overall rate of 335.6 visits per 100 persons. About one-third of office visits, 34.9 percent, were made to practices with all or partial electronic medical records systems, while 85.1 percent of the visits were made to practices with all or partial electronic submission of claims. From 1997 to 2007, the percentage of visits to physicians who were solo practitioners decreased 21 percent. During the same period, visits to physicians who were part of a group practice with 6–10 physicians increased 46 percent. There were an estimated 106.5 million injury- or poisoning-related office visits in 2007, representing 10.7 percent of all visits. Medications were ordered, supplied, or administered at 727.7 million office visits, accounting for 73.2 percent of all office visits. In 2007, about 2.3 billion drugs were ordered, supplied, or administered, resulting in an average of 226.3 drug mentions per 100 visits.

**Keywords:** ambulatory care • physician office care • medications • chronic condition

### Introduction

The National Ambulatory Medical Care Survey (NAMCS), which began in 1973, was inaugurated to gather,

analyze, and disseminate information about health care provided by office-based physicians. NAMCS and the National Hospital Ambulatory Medical Care Survey (NHAMCS) are parts of

the ambulatory component of the National Health Care Surveys, a family of surveys that measure health care utilization across various types of providers. More information about the National Health Care Surveys can be found at the following website:  
<http://www.cdc.gov/nchs/nhcs.htm>.

NAMCS and NHAMCS data have been used in articles examining important topics of interest in public health and in health services research. A list of publications is available from <http://www.cdc.gov/nchs/data/ahcd/publist-9-4-2009.pdf>. In addition to NAMCS, other reports highlight visits to emergency departments (1) and outpatient departments (2). Annual reports are available from [http://www.cdc.gov/nchs/ahcd/ahcd\\_reports.htm](http://www.cdc.gov/nchs/ahcd/ahcd_reports.htm). Public-use data files are available from [http://www.cdc.gov/nchs/ahcd/ahcd\\_questionnaires.htm](http://www.cdc.gov/nchs/ahcd/ahcd_questionnaires.htm). Data from NAMCS 2007 will also be available on CD ROM. These and other products can be obtained from the NCHS Office of Information Services, Information Dissemination Staff at 1–800–232–4636, the Ambulatory and Hospital Care Statistics Branch at 301–458–4600, or by e-mail at [CDCINFO@cdc.gov](mailto:CDCINFO@cdc.gov).

Ambulatory medical care is the predominant method of providing health



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National Center for Health Statistics



care services in the United States and occurs in a wide variety of settings (3). The National Health Care Surveys collect ambulatory medical care data from several settings, including physician offices (excluding the specialties of radiology, pathology, and anesthesiology), hospital-based outpatient departments, and emergency departments. Of these three settings, physician office visits comprised the largest segment, accounting for 83 percent of ambulatory care visits in 2007.

Services range from primary care to highly specialized medical and surgical care. This report describes care delivered in the offices of nonfederally employed physicians. It includes visits not only to private practices but also to urgent care centers, public health clinics, family planning clinics, mental health centers, community health centers, and faculty practice plans. NAMCS has always included physicians in community health centers (CHCs), but starting in 2006, CHCs were purposefully selected in NAMCS as a separate sampling stratum. Although physicians, nurse practitioners, nurse midwives, and physician assistants were sampled at CHCs, only visits to physicians were included in this report. NAMCS does not include visits to hospital emergency or outpatient departments; freestanding ambulatory surgery centers; Department of Veterans Affairs medical offices; or industrial, occupational, or institutional clinics. Many of the estimates in this report are provided separately by physician specialty, as recent research has demonstrated that certain physician practice characteristics, such as volume, ownership, revenue, and practice patterns, can be significantly influenced by physician specialty (4,5).

NAMCS includes detailed questions on chronic conditions, including a chronic condition check list, participation in disease management programs, and diagnostic and screening service items that parallel the listed chronic conditions. The survey also collects the status (new or continued) of each medication and information on

gestational age, health education, and nonmedication treatment.

## Methods

### Data source

This report presents data on visits in terms of physician, patient, and visit characteristics. These data are from the 2007 NAMCS, a national probability sample survey of nonfederal office-based physicians conducted by the Centers for Disease Control and Prevention's National Center for Health Statistics (NCHS), Division of Health Care Statistics. The survey was conducted from December 25, 2006, through December 23, 2007. NAMCS utilizes a multistage probability sample design involving samples of 112 geographic primary sampling units (PSUs), physicians within PSUs, and patient visits within physician practices. PSUs are counties, groups of counties, county equivalents (such as parishes or independent cities), or towns and townships for some PSUs in New England. The NAMCS sample for 2007 was slightly larger than 2006 because the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP) sponsored the addition of 50 primary care physicians (general or family practice, internal medicine, and obstetrics and gynecology). As in 2006, the National Cancer Institute again sponsored a supplementary sample of 200 oncologists.

In 2007, 2,399 sampled physicians were in scope (eligible to participate in the survey). Of these, 1,568 physicians participated in NAMCS, yielding an unweighted response rate of 64.7 percent (64.1 percent weighted). Sampled physicians were asked to complete Patient Record forms (PRFs) for a systematic random sample of approximately 30 office visits occurring during a randomly assigned 1-week reporting period. The total number of PRFs completed for 2007 was 32,778. Some physicians did not provide the expected number of visit records, thereby reducing the unweighted total visit response rate to 60.9 percent (60.5 percent weighted). A detailed

discussion of methodology can be found in the "Technical Notes." A sample PRF can be found at the end of this report (Figure I).

In this report, the determination of statistical inference is based on the two-tailed *t*-test. The Bonferroni inequality was used to establish the critical value for statistically significant differences (0.05 level of significance) based on the number of possible comparisons within a particular variable (or combination of variables) of interest. A weighted least squares regression analysis was used to determine the significance of trends at the 0.05 level. Terms relating to differences such as "greater than" or "less than" indicate that the difference is statistically significant. A lack of comment regarding the difference does not mean that the difference was tested and found to be not significant.

## Results

### Physician office utilization

- In 2007 an estimated 994.3 million visits were made to office-based physicians, an average of about 335.6 visits for every 100 persons (Table 1).
- About one-quarter of all visits were to general and family practice physicians and approximately one-third of the visits were to other primary care physicians, that is, those specializing in internal medicine, pediatrics, or obstetrics and gynecology. Visits to oncologists accounted for 1.6 percent of visits (Table 1).
- Visits are also presented by three major categories defined by specialty type. In 2007, 58.0 percent of office visits were made to primary care specialists, 22.2 percent to medical specialists, and the remaining 19.8 percent to surgical specialists (Table 1).
- Overall, 86.0 percent of office visits were made to physicians located in metropolitan statistical areas (MSAs) (Table 1).

## Physician practice characteristics

- Overall, 67.8 percent of visits were made to physicians who were owners of the practice. More visits, 83.0 percent, were to practices that were either owned by a physician or a group of physicians than other ownership arrangements. Over one-half of office visits (57.3 percent) were made to physicians who were part of a group practice, defined as having three or more physicians (Table 2).
- The percentage of U.S. physicians who own their practices has declined over the past two decades. The percentage of physicians practicing in independent, solo, or small-group practices declined while the percentage of physicians practicing in larger practices increased (6). From 1997 to 2007, the percentage of visits to physicians who were solo practitioners decreased 21 percent

(Figure 1). During the same period, visits to physicians who were part of a group practice with 6–10 physicians increased 46 percent.

- About one-fifth, or 21.1 percent of visits occurred in multispecialty practices, and 48.4 percent were to single specialty practices. The remaining 30.5 percent of office visits were to solo practitioners (Table 2).
- About one-third of office visits, 34.9 percent, were made to practices with all or partial electronic medical records systems, while 85.1 percent of the visits were made to practices with all or partial electronic submission of claims (Table 2).

## Patient characteristics

- The visit rate was highest for elderly people 75 years and over (761.0 visits per 100 persons) and infants under 1 year of age (731.6 visits per 100 persons). The visit rate declined from infancy (age 1–4 years) to young

adulthood (age 15–24 years), then rose again as age increased. Overall, women had higher visit rates than men (women had 383.8 and men had 285.3 visits per 100 persons) (Table 3).

- In 2007, patient race was missing for 31.5 percent of visits, and patient ethnicity was missing in 34.7 percent of visits; missing data for these two variables were imputed. In this report, all tables presenting patient race or ethnicity include visit estimates based on both imputed and reported race and ethnicity, as well as estimates based only on reported data. In general, there were no statistically significant differences between race or ethnicity distributions or percentages based on “imputed plus reported” data and reported data, unless specifically indicated. For example, Table 4 presents the age distributions of visits by race, based on “imputed plus reported” cases and based on only reported cases.

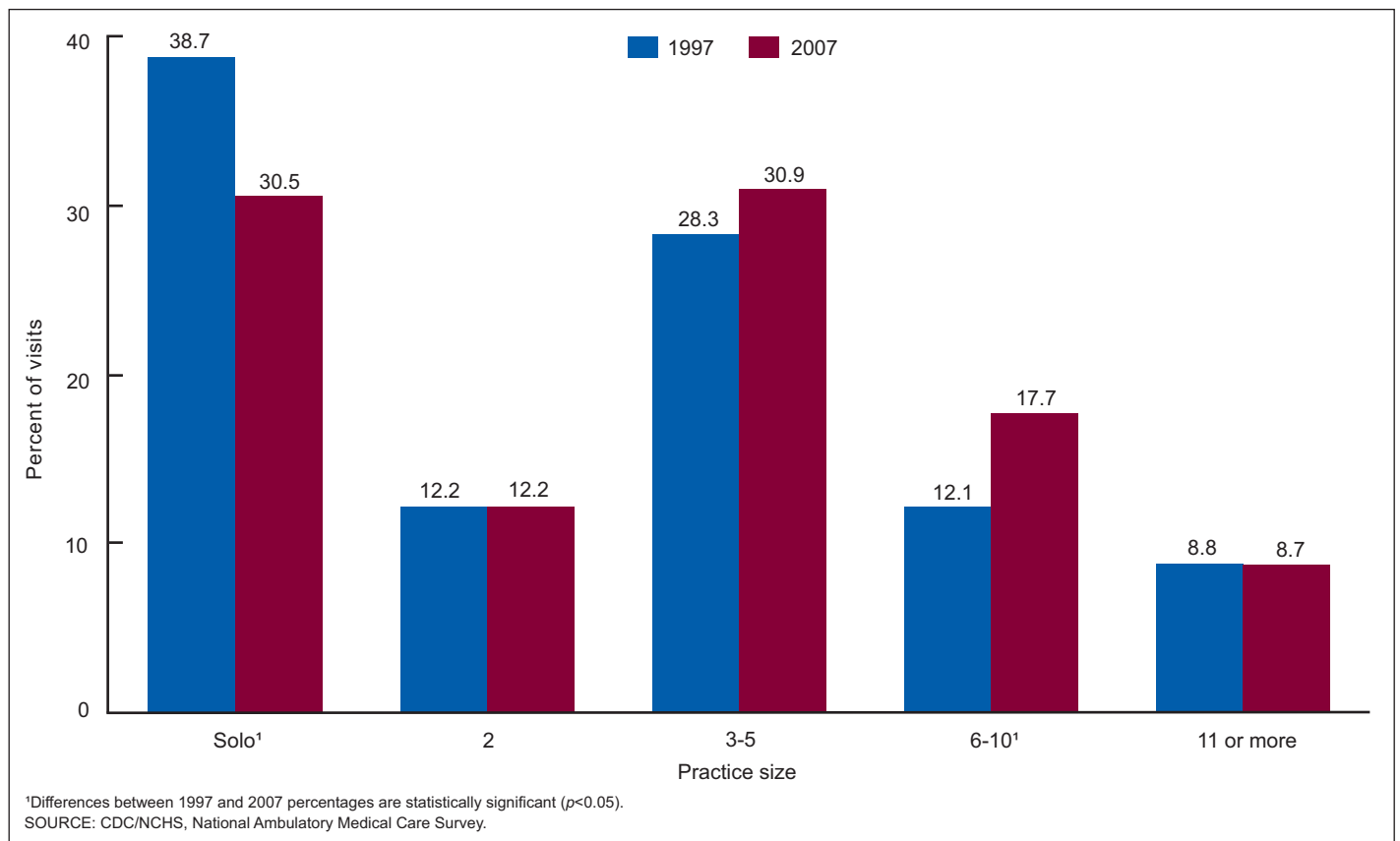


Figure 1. Percentage of office visits by practice size: United States, 1997 and 2007

Comparison of these two distributions yielded no statistically significant differences with the exception of American Indian or Alaska Native. Similarly, the distribution of visits by Hispanic or Latino patients among “imputed plus reported” and reported cases was also statistically similar.

- Private insurance was the most frequently recorded expected source of payment, accounting for 64.5 percent of all visits (Table 5). Medicare and Medicaid/State Children’s Health Insurance Program (SCHIP) were listed as a payment source for 24.0 percent and 12.3 percent of visits, and visits made by patients with both Medicare and Medicaid represented 1.8 percent of all visits. Visits by patients categorized as self-pay, no charge, or charity, an approximation of uninsured, constituted 4.9 percent of all office visits.

### Continuity of care

- In 44.0 percent of office visits, physicians indicated that they were the patient’s primary care provider (PCP); for 49.2 percent, the physician was not the patient’s PCP; and at 6.8 percent of visits, it was unknown whether the physician was the PCP (Table 6).
- Of the non-PCP visits, about one-third (32.7 percent) had been referred by another physician (calculated from Table 6). Visits by new patients were more likely to have been referred by another physician than visits made by established patients (46.2 percent compared with 11.1 percent). Information on whether the patient had been referred for the visit was only asked for non-PCP visits and visits with unknown PCP status. Among these visits, referral information was missing for 20.1 percent of visits (Table 6).
- Among visits to non-PCPs, the visits to the following specialties were most likely to have been referred by another physician: otolaryngology (46.9 percent), neurology (46.7 percent), general surgery

(45.0 percent), and orthopedic surgery (40.5 percent) (Table 7).

- Starting in 2007, the number of visits made by established patients during the past 12 months was collected as a numeric field instead of a categorical one. Established patients accounted for 85.6 percent of office visits. A majority of office visits (79.2 percent) were made by established patients who had at least one previous visit in the last 12 months (calculated from Table 8), and 20.8 percent had six or more visits in the previous 12 months (Table 8).
- Primary care specialists (90.1 percent) were more likely to see established patients compared with medical (82.0 percent) and surgical (76.4 percent) specialists (Table 8).

### Reason for visit

- Examinations, including general medical, routine prenatal, gynecological, and well baby, were 4 of the top 20 categories mentioned as the patients’ principal reasons for visit and accounted for 12.1 percent of all visits (Table 9). Cough was the most frequently mentioned reason (2.8 percent).
- In contrast to the patient’s self-described reason for visit, the provider’s perspective on whether the visit was for a new problem, chronic problem, pre- or post-surgery, or preventive care is also collected. Chronic conditions, including both routine follow-up and flare-up problems, accounted for 38.8 percent of visits (calculated from Table 10). New problems, including infectious diseases and newly diagnosed chronic conditions, accounted for 33.3 percent of visits. The percentage of visits for new problems increased with age for children and then declined with age, whereas the percentage of visits for both types of chronic conditions (routine follow-up and flare-up problems) increased with patient age.
- Overall, 19.4 percent of office visits were for preventive care (Table 10). The preventive care visit rate for women (82.9 visits per 100 persons) was significantly higher than the rate

for men (46.8 visits per 100 persons) (Table 11). The preventive care visit rate among infants under 1 year of age (406.0 visits per 100 persons) exceeded that of all other age groups. Only 26.8 visits per 100 persons categorized as self-pay, no charge, or charity, an approximation of uninsured, were for preventive care compared with 66.5 visits per 100 persons where private insurance was the expected source of payment, 64.0 visits per 100 persons with Medicare as the payment source, and 98.5 visits per 100 persons with Medicaid as the payment source.

### Primary diagnoses and chronic conditions at visit

- The physician’s primary diagnosis for 19.9 percent of visits involved the supplementary classification for preventive and follow-up care (i.e., general medical examination, routine prenatal examination, and health supervision of an infant or child, and other diagnoses not classifiable to injury or illness) (Table 12).
- The most frequent primary medical diagnoses for office visits included essential hypertension, acute upper respiratory infections (excluding pharyngitis), arthropathies and related disorders, spinal disorders, malignant neoplasms, and diabetes mellitus (Table 13).
- There were an estimated 106.5 million visits related to injury, poisoning, or adverse effects of medical treatment in 2007, representing 10.7 percent of all office-based visits (calculated from Table 9 and Table 14) and yielding a rate of 35.9 visits per 100 persons (Table 14). The injury-related visit rate significantly increased with patient age.
- Adverse effects of medical care, including surgical complications and adverse drug reactions, accounted for 8.8 million visits (8.2 percent of injury visits) (Table 15).
- The presence of chronic conditions was based on a checklist of chronic conditions, regardless of previously reported diagnoses. During data

editing, unmarked chronic condition items were edited to be present when comparable diagnoses were reported. In 2007, 52.1 percent of office visits were made by patients with one or more chronic conditions (Table 16). Hypertension was the most frequent chronic condition (23.7 percent), followed by arthritis (12.7 percent), hyperlipidemia (12.4 percent), diabetes (10.3 percent), and depression (8.6 percent).

## Services ordered or provided

- Diagnostic or screening services were ordered or provided at 87.7 percent of visits. The most frequently occurring examination was of the skin (13.9 percent) (Table 17). Women were more likely than men to have imaging ordered or provided at visits, a difference due mostly to mammography and ultrasound.
- In 2007, 5.0 percent of female visits had a Pap test ordered or provided (Table 17). In 2003, the Food and Drug Administration approved the use of a combined human papillomavirus (HPV) deoxyribonucleic acid (DNA) test and Pap test for cervical cancer screening among women over 30 years of age (7). Among visits with any Pap test ordered or provided in 2007, the percentage that was liquid-based (59.1) exceeded the percentage that was conventional (22.9) (calculated from Table 17). However, the type of Pap test was unspecified for 18.1 percent of visits.
- Patient's blood pressure (BP) was recorded at 57.3 percent of all visits (Table 17) and 64.9 percent of all visits made by adults aged 18 years and over (Table 18). Among visits made by adult patients aged 18 years and over with a BP recorded, BP within the moderately high range (140–159 mm Hg systolic, or 90–99 mm Hg diastolic) accounted for 18.8 percent of visits, and BP within the severely high range (160 mm Hg or greater systolic, or 100 mm Hg or greater diastolic) accounted for 6.5 percent of visits. The proportions of visits by age, sex, race, and

ethnicity all follow the same pattern with mildly high initial BP occurring most frequently (majority greater than 40 percent), except for patients aged 18–24 years (Table 18). BP status was based on the Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (8).

- Health education was documented as ordered or provided at 34.1 percent of visits (Table 19). Diet or nutrition (11.7 percent) and exercise (7.6 percent) were the most frequent counseling or education services documented at office visits.
- Nonmedication treatment was ordered or provided at 18.3 percent of visits (Table 20). The most frequent nonmedication treatment ordered or provided was excision of tissue (2.4 percent) followed by physical therapy (2.2 percent of visits), wound care (1.9 percent of visits), and orthopedic care and psychotherapy (both at 1.8 percent).
- An estimated 83.0 million surgical procedures were ordered or provided during office visits (Table 21). At least one surgical procedure was performed at 7.5 percent of office visits (see Table 21 footnote). The two most common procedure categories were related to the integumentary system (35.6 percent of procedures) and the digestive system (15.6 percent of procedures).

## Medications

- Medications were ordered, supplied, or administered at 727.7 million office visits, or 73.2 percent of all office visits (Table 22). At 42.3 percent of all visits, two to seven drugs were ordered, supplied, or administered, and eight drugs were recorded at 6.8 percent of visits.
- In 2007, about 2.3 billion drugs were ordered, supplied, or administered in visits to office-based physicians, resulting in an overall rate of 226.3 drug mentions per 100 visits (Table 23). The percentage of visits with at least one drug mention ranged

from 86.4 percent for psychiatrists to 43.7 percent for general surgeons.

- Drug mentions are displayed by therapeutic drug category in Table 24. The leading therapeutic category was analgesics, indicated in 11.0 percent of all drug mentions, followed by antihyperlipidemic agents (5.5 percent); antidepressants (4.8 percent); anxiolytics, sedatives, and hypnotics (3.8 percent); and antidiabetic agents (3.6 percent).
- Aspirin was the most frequently mentioned drug ordered, supplied, or administered at office visits, occurring in 2.4 percent of drug mentions (Table 25).
- Overall, drugs were more likely to be continued rather than new (68.5 percent compared with 27.1 percent). However, azithromycin (85.9 percent) and amoxicillin (83.7 percent) were both more likely to be new, while ibuprofen and acetaminophen were just as likely to be a new or as a continued drug (Table 25). Vitamin products were excluded from Table 25 due to the diversity and lack of known specific components of many multivitamins.

## Providers seen and visit disposition

- Overall, 95.8 percent of visits were attended by a physician (Table 26). Nurses (registered and licensed practical nurses) were seen at 30.5 percent of physician office visits. Physician assistants, nurse practitioners, and nurse midwives were seen at 5.5 percent of those office visits.
- Patients were told to return to the office for an additional appointment at about two-thirds of visits (67.6 percent) (Table 27). Patients were told to “return if needed” (25.1 percent of visits) or were referred to another physician (7.4 percent of visits). At 5.6 percent of visits, no follow-up was planned.

## References

1. Niska R, Bhuiya F, Xu J. National Hospital Ambulatory Medical Care

- Survey: 2007 emergency department summary. National health statistics report; no 26. Hyattsville, MD: National Center for Health Statistics. 2010.
2. Hing E, Hall MJ, Ashman J, Xu J. National Hospital Ambulatory Medical Care Survey: 2007 outpatient department summary. National health statistics reports; no 31. Hyattsville, MD: National Center for Health Statistics. 2010.
  3. Pleis JR, Lucas JW. Summary health statistics for U.S. adults: National Health Interview Survey, 2007. National Center for Health Statistics. Vital Health Stat 10(240). 2009.
  4. Hing E, Burt CW. Characteristics of office-based physicians and their practices: United States, 2005–2006. National Center for Health Statistics. Vital Health Stat 13(166). 2008.
  5. Cherry DK, Hing E, Woodwell DA, Rechtsteiner EA. National Ambulatory Medical Care Survey: 2006 summary. National Health Statistics Reports; no 3. Hyattsville, MD: National Center for Health Statistics. 2008.
  6. Isaacs SL, Jellinek PS, Ray WL. The independent physician—going, going. . . N Engl J Med 360(7):655–7. 2009.
  7. National Breast and Cervical Cancer Early Detection program. Cervical Cancer Expert Panel White Paper On Technologies for the Early Detection of Cervical Neoplasia. 2005. Available from: <http://www.hhs.state.ne.us/womenshealth/docs/CCEPWhitePaper.pdf> (last accessed 5/28/2009).
  8. Chobanian AV, Bokris GL, Black HR, et al. Seventh report of the Joint National Committee on prevention, detection, evaluation, and treatment of high blood pressure. Hypertension. 42:1206–52. 2003.
  9. Schneider D, Appleton L, McLemore T. A reason for visit classification for ambulatory care. National Center for Health Statistics. Vital Health Stat 2(78). 1979.
  10. U.S. Department of Health and Human Services. Centers for Disease Control and Prevention, Centers for Medicare & Medicaid Services. Official version. International Classification of Diseases, Ninth Revision, Clinical Modification, Sixth Edition. DHHS Pub No. (PHS) 06–1260.
  11. Koch H, Campbell W. The collection and processing of drug information. National Ambulatory Medical Care Survey, United States, 1980. National Center for Health Statistics. Vital Health Stat 2(90). 1982.
  12. Shimizu I. Revised specification for NAMCS statistics for 2003+, unpublished memo random. National Center for Health Statistics, Hyattsville, MD. March 16, 2005.
  13. Research Triangle Institute. SUDAAN User's Manual, Release 9.0 Research Triangle Park, NC: Research Triangle Institute. 2004.

**Table 1. Number, percent distribution, and annual rate of office visits with corresponding standard errors, by selected physician characteristics: United States, 2007**

Physician characteristics	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>1,2</sup>	Standard error of rate
All visits . . . . .	994,321	39,975	100.0	. . .	335.6	13.5
Physician specialty <sup>3</sup>						
General and family practice . . . . .	227,817	18,981	22.9	1.5	76.9	6.4
Internal medicine. . . . .	143,722	13,658	14.5	1.1	48.5	4.6
Pediatrics . . . . .	130,832	12,294	13.2	1.2	<sup>4</sup> 189.2	17.8
Obstetrics and gynecology. . . . .	74,296	7,252	7.5	0.7	<sup>5</sup> 60.7	6.0
Ophthalmology . . . . .	58,994	7,505	5.9	0.7	19.9	2.5
Orthopedic surgery . . . . .	51,258	6,813	5.2	0.6	17.3	2.3
Dermatology . . . . .	44,874	5,258	4.5	0.5	15.1	1.8
Psychiatry . . . . .	32,660	3,822	3.3	0.4	11.0	1.3
Cardiovascular diseases . . . . .	32,431	4,431	3.3	0.4	10.9	1.5
Otolaryngology . . . . .	20,204	2,542	2.0	0.3	6.8	0.9
General surgery . . . . .	19,636	2,905	2.0	0.3	6.6	1.0
Urology . . . . .	18,914	2,492	1.9	0.2	6.4	0.8
Neurology . . . . .	17,559	2,312	1.8	0.2	5.9	0.8
Oncology . . . . .	15,581	1,944	1.6	0.2	5.3	0.7
All other specialties . . . . .	105,543	11,577	10.6	1.1	35.6	3.9
Professional degree						
Doctor of medicine . . . . .	917,359	40,634	92.3	0.9	309.6	13.7
Doctor of osteopathy . . . . .	76,962	8,440	7.7	0.9	26.0	2.8
Specialty type <sup>3</sup>						
Primary care . . . . .	576,650	29,742	58.0	1.5	194.6	10.0
Medical specialty. . . . .	221,073	13,074	22.2	1.1	74.6	4.4
Surgical specialty . . . . .	196,598	13,536	19.8	1.1	66.4	4.6
Geographic region						
Northeast . . . . .	178,403	12,169	17.9	1.2	331.4	22.6
Midwest . . . . .	206,546	19,232	20.8	1.7	316.2	29.4
South . . . . .	415,018	29,452	41.7	2.1	383.7	27.2
West . . . . .	194,354	15,139	19.5	1.4	281.7	21.9
Metropolitan status						
MSA <sup>6</sup> . . . . .	855,224	40,657	86.0	2.4	343.4	16.3
Non-MSA <sup>6</sup> . . . . .	139,097	25,188	14.0	2.4	294.5	53.3

. . . Category not applicable.

<sup>1</sup>Visit rates for age, sex, race, and region are based on the July 1, 2007, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau.<sup>2</sup>Population estimates by metropolitan statistical area status are based on estimates of the civilian noninstitutional population of the United States as of July 1, 2007, from the 2007 National Health Interview Survey, National Center for Health Statistics, compiled according to the December 2006 Office of Management and Budget definitions of core-based statistical areas. See <http://www.census.gov/population/www/estimates.metrodef.html> for more about metropolitan statistical areas definitions.<sup>3</sup>Physician specialty and specialty type are defined in the "Technical Notes."<sup>4</sup>Number of visits (numerator) and population estimate (denominator) include children under 15 years of age.<sup>5</sup>Number of visits (numerator) and population estimate (denominator) include females 15 years old and over.<sup>6</sup>MSA is metropolitan statistical area.

NOTE: Numbers may not add to totals because of rounding.

**Table 2. Number and percent distribution of office visits with corresponding standard errors, by selected physician practice characteristics: United States, 2007**

Physician practice characteristics	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent
All visits . . . . .	994,321	39,975	100.0	...
Employment status				
Owner . . . . .	674,578	35,477	67.8	1.9
Employee . . . . .	291,531	20,465	29.3	1.8
Contractor . . . . .	28,212	6,241	2.8	0.6
Ownership				
Physician or group . . . . .	825,081	40,603	83.0	1.6
Other health care corporation . . . . .	49,631	10,587	5.0	1.1
Community Health Center . . . . .	27,696	5,379	2.8	0.6
Other hospital . . . . .	26,876	5,998	2.7	0.6
HMO <sup>1</sup> . . . . .	25,045	4,909	2.5	0.5
Medical or academic health center . . . . .	*21,643	6,541	2.2	0.6
Other <sup>2</sup> . . . . .	*17,492	5,562	*1.8	0.6
Blank . . . . .	*	...	*	...
Practice size				
Solo . . . . .	303,441	23,055	30.5	2.0
2 . . . . .	121,020	14,470	12.2	1.5
3–5 . . . . .	307,057	25,473	30.9	2.0
6–10 . . . . .	175,753	17,574	17.7	1.5
11 or more . . . . .	86,734	11,844	8.7	1.2
Blank . . . . .	*	...	*	...
Type of practice				
Single-specialty . . . . .	480,775	25,822	48.4	2.1
Multispecialty . . . . .	210,106	21,203	21.1	1.8
Solo . . . . .	303,441	23,055	30.5	2.0
Office type				
Private practice . . . . .	864,255	39,895	86.9	1.9
Clinic or urgent center . . . . .	63,083	17,634	6.3	1.7
Community health center . . . . .	27,497	5,338	2.8	0.6
Other <sup>3</sup> . . . . .	39,485	7,615	4.0	0.8
Electronic Medical Records				
Yes—all electronic . . . . .	196,135	19,198	19.7	1.7
Yes—part paper and part electronic . . . . .	151,199	17,830	15.2	1.6
No . . . . .	644,515	30,385	64.8	2.0
Unknown or blank . . . . .	*2,472	1,433	*0.2	0.1
Practice submits claims electronically				
Yes—all electronic . . . . .	587,207	31,974	59.1	2.1
Yes—part paper and part electronic . . . . .	258,469	22,336	26.0	2.1
No . . . . .	108,735	17,244	10.9	1.6
Unknown or blank . . . . .	39,911	6,819	4.0	0.7

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

<sup>1</sup>HMO is health maintenance organization.

<sup>2</sup>Other includes owners such as local government (state, county, or city) and charitable organizations.

<sup>3</sup>Other includes the following office types: HMO, nonfederal government clinic, mental health center, family planning clinic, and faculty practice plan.

NOTE: Numbers may not add to totals because of rounding.



**Table 3. Number, percent distribution, and annual rate of office visits with corresponding standard errors, by patient age and sex: United States, 2007**

Patient age and sex	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>1</sup>	Standard error of rate
All visits . . . . .	994,321	39,975	100.0	...	335.6	13.5
Age						
Under 15 years . . . . .	167,481	11,369	16.8	(1.0)	275.3	18.7
Under 1 year . . . . .	31,119	2,839	3.1	(0.3)	731.6	66.8
1–4 years . . . . .	56,190	4,567	5.7	(0.4)	341.3	27.7
5–14 years . . . . .	80,172	5,153	8.1	(0.5)	199.8	12.8
15–24 years . . . . .	81,575	3,836	8.2	(0.3)	196.6	9.2
25–44 years . . . . .	203,161	10,269	20.4	(0.7)	248.8	12.6
45–64 years . . . . .	283,890	13,756	28.6	(0.6)	373.3	18.1
65 years and over . . . . .	258,214	14,819	26.0	(0.9)	712.4	40.9
65–74 years . . . . .	127,805	7,412	12.9	(0.4)	668.9	38.8
75 years and over . . . . .	130,409	8,010	13.1	(0.5)	761.0	46.7
Sex and age						
Female . . . . .	580,542	24,466	58.4	(0.7)	383.8	16.2
Under 15 years . . . . .	78,653	5,615	7.9	(0.5)	264.6	18.9
15–24 years . . . . .	51,992	3,124	5.2	(0.3)	253.3	15.2
25–44 years . . . . .	137,558	7,498	13.8	(0.5)	333.9	18.2
45–64 years . . . . .	166,269	8,306	16.7	(0.4)	425.2	21.2
65–74 years . . . . .	69,824	4,520	7.0	(0.3)	675.6	43.7
75 years and over . . . . .	76,245	4,906	7.7	(0.4)	734.7	47.3
Male . . . . .	413,779	17,632	41.6	(0.7)	285.3	12.2
Under 15 years . . . . .	88,828	6,456	8.9	(0.6)	285.5	20.7
15–24 years . . . . .	29,583	1,811	3.0	(0.2)	141.1	8.6
25–44 years . . . . .	65,602	4,258	6.6	(0.3)	162.1	10.5
45–64 years . . . . .	117,621	6,151	11.8	(0.3)	318.3	16.6
65–74 years . . . . .	57,982	3,450	5.8	(0.2)	660.9	39.3
75 years and over . . . . .	54,164	3,729	5.4	(0.3)	801.4	55.2

... Category not applicable.

<sup>1</sup>Visit rates are based on the July 1, 2007, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau.

NOTE: Numbers may not add to totals because of rounding.

**Table 4. Number, percent distribution, and annual rate of office visits with corresponding standard errors, by patient race, age, and ethnicity: United States, 2007**

Patient characteristics	Reported plus imputed <sup>1,2</sup>						Reported only <sup>3,4</sup>					
	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>5</sup>	Standard error of rate	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>5</sup>	Standard error of rate
All visits . . . . .	994,321	39,975	100.0	...	335.6	13.5	...	...	..	...	...	...
Race and age <sup>6,7</sup>												
Reported . . . . .	680,983	37,972	68.5	2.2	...	...	680,983	37,972	100.0	..	229.8	12.8
Imputed (missing) . . . . .	313,338	23,505	31.5	2.2	...	...	...	...	...	...	...	...
White . . . . .	818,225	35,926	82.3	1.0	344.6	15.1	570,659	35,164	83.8	1.3	240.3	14.8
Under 15 years . . . . .	130,970	9,236	13.2	0.9	282.7	19.9	87,709	7,262	12.9	1.0	189.3	15.7
15–24 years . . . . .	66,250	3,239	6.7	0.3	206.2	10.1	45,033	2,789	6.6	0.3	140.2	8.7
25–44 years . . . . .	160,033	8,523	16.1	0.6	248.2	13.2	110,854	7,852	16.3	0.7	171.9	12.2
45–64 years . . . . .	236,563	12,612	23.8	0.6	375.2	20.0	165,662	12,063	24.3	0.8	262.8	19.1
65–74 years . . . . .	108,735	6,953	10.9	0.5	665.7	42.6	77,308	7,089	11.4	0.6	473.3	43.4
75 years and over . . . . .	115,673	7,665	11.6	0.5	764.9	50.7	84,094	7,343	12.3	0.7	556.0	48.6
Black or African American . . . . .	118,338	9,048	11.9	0.8	316.8	24.2	80,566	7,588	11.8	1.0	215.7	20.3
Under 15 years . . . . .	24,705	3,173	2.5	0.3	266.3	34.2	17,243	2,847	2.5	0.4	185.9	30.7
15–24 years . . . . .	10,828	1,056	1.1	0.1	175.0	17.1	7,652	837	1.1	0.1	123.7	13.5
25–44 years . . . . .	27,495	2,818	2.8	0.3	264.0	27.1	19,363	2,518	2.8	0.4	185.9	24.2
45–64 years . . . . .	32,011	3,001	3.2	0.3	381.3	35.8	21,931	2,583	3.2	0.3	261.3	30.8
65–74 years . . . . .	13,293	1,518	1.3	0.1	747.7	85.4	8,607	1,379	1.3	0.2	484.1	77.6
75 years and over . . . . .	10,005	1,424	1.0	0.1	769.1	109.5	5,770	1,302	0.8	0.2	443.6	100.1
Asian . . . . .	40,613	6,216	4.1	0.6	305.4	46.7	24,571	4,846	3.6	0.7	184.8	36.4
Native Hawaiian or Other Pacific Islander . . . . .	3,624	524	0.4	0.1	686.4	99.2	1,563	334	0.2	0.1	296.0	63.2
American Indian or Alaska Native . . . . .	10,874	1,672	1.1	0.2	377.0	58.0	2,150	497	0.3	0.1	74.6	17.2
Multiple races . . . . .	2,647	450	0.3	0.0	55.1	9.4	1,474	332	0.2	0.0	30.7	6.9
Ethnicity <sup>6,7</sup>												
Reported . . . . .	649,370	37,696	65.3	2.3	...	...	649,370	37,696	100.0	...	...	...
Imputed (missing) . . . . .	344,952	25,001	34.7	2.3	...	...	...	...	...	...	...	...
Hispanic or Latino . . . . .	134,614	12,696	13.5	1.2	299.4	28.2	88,782	10,772	13.7	1.5	197.4	24.0
Not Hispanic or Latino . . . . .	859,708	36,720	86.5	1.2	342.1	14.6	560,588	34,999	86.3	1.5	223.0	13.9

... Category not applicable.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>"Reported plus imputed" includes race that was reported directly by NAMCS, and imputed values for the 31.5 percent of visits for which race was not reported.<sup>2</sup>"Reported plus imputed" includes ethnicity that was reported directly by NAMCS, and imputed values for the 34.7 percent of visits for which ethnicity was not reported.<sup>3</sup>"Reported only" calculations are based on 680,983 visits (in thousands) with race reported directly by NAMCS. The 31.5 percent of visits for which race was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed race values.<sup>4</sup>"Reported only" calculations are based on 649,370 visits (in thousands) with ethnicity reported directly by NAMCS. The 34.7 percent of visits for which ethnicity was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed ethnicity values.<sup>5</sup>Visit rates are based on the July 1, 2007, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau.<sup>6</sup>For 2007, race data were missing for 31.5 percent of visits, and ethnicity data were missing for 34.7 percent of visits. Readers are therefore advised to treat these data with caution. In this table, estimates based on imputed race and ethnicity data are shown separately from comparison estimates using unimputed data. Missing race and ethnicity were imputed using a hot deck approach rather than the previously used cold deck strategy. The imputation process is described more fully in the 2007 public-use file documentation ([ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/NAMCS/doc07.pdf](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NAMCS/doc07.pdf)). Research is currently underway to evaluate further changes to the imputation strategy for use with 2008 data.<sup>7</sup>The race groups, White, Black or African American, Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, and multiple races, include persons of Hispanic and not Hispanic origin. Persons of Hispanic origin may be of any race. Race-specific estimates were tabulated according to 1997 Standards for Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The percentage of visit records with multiple races indicated is small and lower than what is typically found for self-reported race in household surveys.

NOTE: Numbers may not add to totals because of rounding.

**Table 5. Number and percent distribution of office visits with corresponding standard errors, by expected sources of payment: United States, 2007**

Expected sources of payment	Number of visits <sup>1</sup> in thousands	Standard error in thousands	Percent of visits	Standard error of percent
All visits . . . . .	994,321	39,975	...	...
Private insurance . . . . .	640,928	30,361	64.5	1.3
Medicare . . . . .	239,121	15,179	24.0	1.0
Medicare and Medicaid <sup>2</sup> . . . . .	17,441	1,856	1.8	0.2
Medicaid or SCHIP <sup>3</sup> . . . . .	122,384	9,781	12.3	0.9
No insurance <sup>4</sup> . . . . .	48,666	5,140	4.9	0.5
Self-pay . . . . .	45,560	5,071	4.6	0.5
No charge or charity . . . . .	3,530	857	0.4	0.1
Worker's compensation . . . . .	12,475	2,828	1.3	0.3
Other . . . . .	27,559	3,884	2.8	0.4
Unknown or blank . . . . .	39,909	8,419	4.0	0.8

... Category not applicable.

<sup>1</sup>Combined total of individual sources exceeds "all visits" because more than one may be reported per visit.

<sup>2</sup>The visits in this category are also included in both the Medicare and Medicaid or SCHIP category.

<sup>3</sup>SCHIP is the State Children's Health Insurance Program.

<sup>4</sup>No insurance is defined as having only self-pay, no charge, or charity visits as payment sources.

**Table 6. Number and percent distribution of office visits with corresponding standard errors by selected visit characteristics, according to prior-visit status: United States, 2007**

Prior-visit status, primary care provider, and referral status	Number of visits <sup>1</sup> in thousands	Standard error in thousands	Percent distribution of visits	Standard error of percent
All visits . . . . .	994,321	39,975	100.0	...
Visit to PCP <sup>1</sup> . . . . .	437,323	25,887	44.0	1.6
Visit to non-PCP <sup>1</sup> . . . . .	489,282	21,656	49.2	1.5
Referred for this visit <sup>2</sup> . . . . .	160,156	10,004	16.1	0.9
Not referred for this visit . . . . .	256,975	15,656	25.8	1.2
Unknown if referred <sup>3</sup> . . . . .	72,151	6,360	7.3	0.6
Unknown if PCP <sup>1</sup> visit <sup>3</sup> . . . . .	67,716	9,620	6.8	0.9
Established patient				
All visits . . . . .	851,331	35,148	85.6	0.5
Visit to PCP <sup>1</sup> . . . . .	418,871	25,104	49.2	1.7
Visit to non-PCP <sup>1</sup> . . . . .	378,747	17,267	44.5	1.5
Referred for this visit . . . . .	94,122	7,796	11.1	0.9
Not referred for this visit . . . . .	230,143	13,982	27.0	1.4
Unknown if referred <sup>3</sup> . . . . .	54,482	5,425	6.4	0.6
Unknown if PCP <sup>1</sup> visit <sup>3</sup> . . . . .	53,714	8,214	6.3	0.9
New patient				
All visits . . . . .	142,990	7,525	14.4	0.5
Visit to PCP <sup>1</sup> . . . . .	18,453	2,123	12.9	1.4
Visit to non-PCP <sup>1</sup> . . . . .	110,535	6,404	77.3	1.8
Referred for this visit . . . . .	66,035	4,512	46.2	1.8
Not referred for this visit . . . . .	26,832	2,627	18.8	1.4
Unknown if referred <sup>3</sup> . . . . .	17,668	1,721	12.4	1.2
Unknown if PCP <sup>1</sup> visit <sup>3</sup> . . . . .	14,002	2,274	9.8	1.5

... Category not applicable.

<sup>1</sup>PCP is patient's primary care provider as indicated by a positive response to the question "Are you the patient's primary care physician/provider?"

<sup>2</sup>Referral status was only asked for visits to nonprimary care physicians or providers and visits with unknown PCP status. Among these visits, referral information was unknown for 20.1 percent of visits.

<sup>3</sup>The unknown category includes blanks.

NOTE: Numbers may not add to totals because of rounding.

**Table 7. Percent distribution of office visits with corresponding standard errors by primary care provider and referral status, according to physician specialty: United States, 2007**

Physician specialty	Total	Visit to PCP <sup>1</sup>	Standard error	Visit to non-PCP <sup>1,2</sup>							
				Referred by other physician	Standard error	Not referred by other physician	Standard error	Unknown if referred <sup>3</sup>	Standard error	Unknown if PCP <sup>1</sup> visit <sup>3</sup>	Standard error
All visits . . . . .	100.0	44.0	1.6	16.1	0.9	25.8	1.2	7.3	0.6	6.8	0.9
General and family practice . . . . .	100.0	82.0	2.1	1.9	0.5	6.1	1.4	3.1	0.7	6.9	1.3
Internal medicine . . . . .	100.0	76.3	4.3	1.9	0.5	*4.8	2.1	*2.5	0.8	14.4	3.8
Pediatrics . . . . .	100.0	87.6	2.8	*2.6	1.0	3.3	1.0	2.4	0.7	*4.1	1.6
Obstetrics and gynecology . . . . .	100.0	16.3	3.5	14.7	3.2	51.5	4.1	11.7	2.8	5.9	1.4
Ophthalmology . . . . .	100.0	*	...	28.7	4.3	52.0	5.3	12.7	2.8	*4.1	1.7
Orthopedic surgery . . . . .	100.0	*1.5	0.9	40.5	4.6	38.1	4.6	16.7	4.2	*3.3	1.3
Dermatology . . . . .	100.0	*	...	18.0	3.9	60.9	5.6	14.7	3.5	*6.2	2.7
Psychiatry . . . . .	100.0	*1.3	1.1	25.0	6.3	59.3	6.3	11.5	2.8	2.8	0.8
Cardiovascular diseases . . . . .	100.0	*9.4	3.4	34.1	5.2	41.0	6.0	8.1	2.2	*7.4	5.2
Otolaryngology . . . . .	100.0	*	...	46.9	4.3	42.0	4.4	6.0	1.8	*2.9	1.4
General surgery . . . . .	100.0	*3.0	1.9	45.0	5.1	43.0	5.0	7.3	2.2	*1.7	0.7
Urology . . . . .	100.0	*	...	28.8	3.2	46.5	5.2	17.8	5.2	*6.4	2.2
Neurology . . . . .	100.0	*	...	46.7	5.3	35.9	5.3	*9.3	3.8	*6.4	3.0
Oncology . . . . .	100.0	*6.4	2.2	31.8	5.5	46.7	5.1	*7.5	3.0	*7.6	2.7
All other specialties . . . . .	100.0	*5.5	3.3	34.8	3.7	41.9	4.8	11.3	2.7	*6.4	2.3

\*Figure does not meet standards of reliability or precision  
 ... Category not applicable.

<sup>1</sup>PCP is patient's primary care provider as indicated by a positive response to the question "Are you the patient's primary care physician/provider?"

<sup>2</sup>Referral status was only asked for visits to nonprimary care physicians or providers and visits with unknown PCP status. Among these visits, referral information was unknown for 20.1 percent of visits.

<sup>3</sup>The unknown category includes blanks.

NOTE: Numbers may not add to totals because of rounding.

**Table 8. Number and percent distribution of office visits with corresponding standard errors by continuity-of-care visit characteristics, according to specialty type: United States, 2007**

Continuity-of-care visit characteristics	Specialty type <sup>1</sup>				Specialty type <sup>1</sup>			
	All specialites	Primary care	Surgical specialties	Medical specialties	All specialties	Primary care	Surgical specialties	Medical specialties
	Number of visits (standard error) in thousands				Percent distribution (standard error of percent)			
All visits . . . . .	994,321 (39,975)	576,650 (29,742)	196,598 (13,536)	221,073 (13,074)	100.0 ...	100.0 ...	100.0 ...	100.0 ...
Prior-visit status and number of visits in last 12 months								
Established patient <sup>2</sup> . . . . .	851,331 (35,148)	519,806 (27,635)	150,242 (10,632)	181,282 (11,251)	85.6 (0.5)	90.1 (0.6)	76.4 (1.3)	82.0 (1.3)
None . . . . .	63,710 (4,130)	36,023 (3,364)	14,531 (1,468)	13,156 (1,793)	6.4 (0.3)	6.2 (0.5)	7.4 (0.6)	6.0 (0.6)
1–2 visits . . . . .	306,331 (12,572)	168,920 (9,592)	66,219 (4,739)	71,192 (5,329)	30.8 (0.6)	29.3 (0.7)	33.7 (1.0)	32.2 (1.4)
3–5 visits . . . . .	274,336 (13,208)	179,287 (10,793)	44,841 (3,592)	50,208 (3,677)	27.6 (0.5)	31.1 (0.8)	22.8 (1.0)	22.7 (1.0)
6 or more visits . . . . .	206,954 (11,194)	135,577 (8,830)	24,651 (2,730)	46,726 (4,632)	20.8 (0.7)	23.5 (0.9)	12.5 (0.9)	21.1 (1.8)
New patient . . . . .	142,990 (7,525)	56,844 (3,974)	46,356 (4,185)	39,791 (3,630)	14.4 (0.5)	9.9 (0.6)	23.6 (1.3)	18.0 (1.3)

... Category not applicable.

<sup>1</sup>Specialty type is defined in the "Technical Notes."

<sup>2</sup>Number of previous visits by established patients to responding physician in last 12 months.

NOTE: Numbers may not add to totals because of rounding.

**Table 9. Number and percent distribution of office visits with corresponding standard errors by the 20 principal reasons for visit most frequently mentioned by patients, according to patient's sex: United States, 2007**

Principal reason for visit and RVC code <sup>1</sup>	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Female <sup>2</sup>		Male <sup>3</sup>	
					Percent distribution	Standard error of percent	Percent distribution	Standard error of percent
All visits . . . . .	994,321	39,975	100.0	...	100.0	...	100.0	...
General medical examination . . . . .X100	74,603	5,619	7.5	0.5	7.0	0.5	8.3	0.6
Progress visit, not otherwise specified . . . .T800	60,901	5,087	6.1	0.5	5.8	0.4	6.6	0.6
Cough . . . . .S440	27,881	2,109	2.8	0.2	2.5	0.2	3.2	0.3
Postoperative visit . . . . .T205	27,645	2,321	2.8	0.2	2.6	0.2	3.0	0.3
Medication, other and unspecified kinds . . .T115	21,717	2,745	2.2	0.3	2.4	0.3	1.9	0.2
Knee symptoms . . . . .S925	19,038	2,614	1.9	0.2	1.9	0.2	2.0	0.3
For other and unspecified test results. . . .R700	17,765	2,494	1.8	0.2	1.6	0.2	2.0	0.3
Prenatal examination, routine. . . . .X205	17,694	2,617	1.8	0.3	3.0	0.4	..	...
Symptoms referable to throat. . . . .S455	16,951	1,480	1.7	0.1	1.8	0.2	1.5	0.2
Back symptoms . . . . .S905	14,923	1,882	1.5	0.2	1.5	0.2	1.5	0.2
Hypertension. . . . .D510	14,741	1,869	1.5	0.2	1.3	0.2	1.8	0.3
Well-baby examination . . . . .X105	14,644	1,530	1.5	0.1	1.2	0.1	1.8	0.2
Vision dysfunctions . . . . .S305	13,544	3,180	1.4	0.3	1.3	0.3	1.5	0.4
Stomach pain, cramps, and spasms . . . .S545	13,233	1,378	1.3	0.1	1.5	0.2	1.1	0.2
Nasal congestion . . . . .S400	13,162	1,526	1.3	0.2	1.3	0.2	1.4	0.2
Gynecological examination . . . . .X225	12,816	2,228	1.3	0.2	2.2	0.4	...	...
Skin rash . . . . .S860	12,511	1,056	1.3	0.1	1.0	0.1	1.6	0.2
Fever . . . . .S010	12,358	1,345	1.2	0.1	1.0	0.1	1.6	0.2
Earache or ear infection . . . . .S355	12,259	1,116	1.2	0.1	1.3	0.1	1.2	0.1
Diabetes mellitus . . . . .D205	11,035	1,581	1.1	0.2	1.0	0.2	1.3	0.2
All other reasons. . . . .	564,898	23,820	56.8	0.7	56.9	0.9	56.7	0.9

... Category not applicable.

<sup>1</sup>Based on *A Reason for Visit Classification for Ambulatory Care (RVC)*(9).

<sup>2</sup>Based on 580,542,000 visits made by females.

<sup>3</sup>Based on 413,779,000 visits made by males.

NOTE: Numbers may not add to totals because of rounding.

**Table 10. Number and percent distribution of office visits with corresponding standard errors by major reason for visit, according to selected patient and visit characteristics: United States, 2007**

Patient and visit characteristics	Number of visits (standard error) in thousands	Total percent	New problem	Chronic problem, routine	Chronic problem, flare-up	Pre- or post- surgery	Preventive care <sup>1</sup>	Unknown or blank
All visits . . . . .	994,321 (39,975)	100.0	33.3 (1.0)	31.2 (1.1)	7.6 (0.4)	6.3 (0.4)	19.4 (0.7)	2.2 (0.4)
Age								
Under 15 years . . . . .	167,481 (11,369)	100.0	49.7 (2.1)	10.1 (1.2)	5.2 (0.7)	2.0 (0.5)	31.6 (1.5)	1.4 (0.4)
Under 1 year . . . . .	31,119 (2,839)	100.0	34.2 (2.5)	4.6 (1.0)	* . . .	* . . .	55.5 (2.6)	* . . .
1–4 years . . . . .	56,190 (4,567)	100.0	52.7 (2.7)	7.9 (1.6)	4.1 (0.8)	1.8 (0.5)	31.8 (2.1)	* . . .
5–14 years . . . . .	80,172 (5,153)	100.0	53.6 (2.3)	13.8 (1.3)	7.0 (1.0)	2.1 (0.6)	22.2 (1.7)	1.4 (0.3)
15–24 years . . . . .	81,575 (3,836)	100.0	39.9 (1.7)	16.7 (1.5)	6.0 (0.7)	4.4 (0.6)	30.8 (1.7)	2.3 (0.7)
25–44 years . . . . .	203,161 (10,269)	100.0	33.2 (1.2)	26.5 (1.4)	8.2 (0.6)	5.8 (0.5)	23.9 (1.2)	2.5 (0.5)
45–64 years . . . . .	283,890 (13,756)	100.0	29.2 (1.1)	38.2 (1.3)	8.7 (0.6)	7.9 (0.6)	13.8 (0.8)	2.1 (0.4)
65 years and over . . . . .	258,214 (14,819)	100.0	25.3 (1.2)	45.5 (1.5)	7.9 (0.6)	8.2 (0.6)	10.7 (0.9)	2.5 (0.5)
65–74 years . . . . .	127,805 (7,412)	100.0	26.2 (1.3)	43.7 (1.8)	7.8 (0.7)	8.7 (0.7)	10.9 (0.9)	2.7 (0.6)
75 years and over . . . . .	130,409 (8,010)	100.0	24.3 (1.4)	47.2 (1.7)	8.0 (0.7)	7.7 (0.7)	10.5 (1.0)	2.3 (0.4)
Sex								
Female . . . . .	580,542 (24,466)	100.0	32.4 (1.0)	29.7 (1.2)	7.7 (0.4)	5.9 (0.4)	21.6 (0.9)	2.6 (0.6)
Male . . . . .	413,779 (17,632)	100.0	34.7 (1.1)	33.3 (1.2)	7.3 (0.5)	6.8 (0.5)	16.4 (0.9)	1.5 (0.2)
Race <sup>2,3</sup>								
Reported . . . . .	680,983 (37,972)	100.0	32.4 (1.2)	32.4 (1.4)	8.3 (0.5)	6.0 (0.4)	19.3 (0.9)	1.5 (0.2)
Imputed (missing) . . . . .	313,338 (23,505)	100.0	35.3 (1.5)	28.6 (1.7)	6.0 (0.5)	6.8 (0.8)	19.7 (1.4)	*3.6 (1.1)
Reported plus imputed <sup>4</sup>								
White . . . . .	818,225 (35,926)	100.0	33.1 (1.0)	32.1 (1.2)	7.9 (0.5)	6.5 (0.4)	18.3 (0.7)	2.1 (0.4)
Black or African American . . . . .	118,338 (9,048)	100.0	33.5 (1.7)	28.4 (1.9)	6.7 (0.8)	4.9 (0.7)	23.7 (1.7)	2.8 (0.6)
Other <sup>5</sup> . . . . .	57,759 (6,439)	100.0	36.2 (2.2)	24.8 (2.1)	4.7 (0.7)	5.4 (0.9)	26.4 (2.1)	2.5 (0.6)
Reported only <sup>6</sup>								
White . . . . .	570,659 (35,164)	100.0	31.9 (1.2)	33.4 (1.4)	8.6 (0.6)	6.3 (0.5)	18.4 (1.0)	1.4 (0.2)
Black or African American . . . . .	80,566 (7,588)	100.0	34.2 (2.2)	28.4 (2.6)	7.0 (0.9)	4.8 (0.8)	23.4 (1.8)	2.2 (0.5)
Other <sup>5</sup> . . . . .	29,758 (4,895)	100.0	38.1 (3.3)	23.8 (2.3)	5.3 (1.0)	4.1 (0.9)	26.1 (2.7)	* . . .
Ethnicity <sup>2,3</sup>								
Reported . . . . .	649,370 (37,696)	100.0	32.7 (1.2)	32.1 (1.5)	8.1 (0.6)	6.0 (0.4)	19.7 (1.0)	1.4 (0.2)
Imputed (missing) . . . . .	344,952 (25,001)	100.0	34.4 (1.4)	29.6 (1.7)	6.6 (0.6)	6.9 (0.8)	18.9 (1.3)	3.6 (1.0)
Reported plus imputed <sup>7</sup>								
Hispanic or Latino . . . . .	134,614 (12,696)	100.0	35.4 (2.1)	26.5 (1.9)	7.1 (1.2)	4.1 (0.5)	24.5 (1.6)	2.4 (0.4)
Not Hispanic or Latino . . . . .	859,708 (36,720)	100.0	33.0 (1.0)	31.9 (1.2)	7.6 (0.4)	6.6 (0.4)	18.7 (0.8)	2.1 (0.4)
Reported only <sup>8</sup>								
Hispanic or Latino . . . . .	88,782 (10,772)	100.0	36.5 (2.7)	24.9 (2.3)	7.9 (1.8)	3.5 (0.6)	25.8 (2.1)	1.4 (0.3)
Not Hispanic or Latino . . . . .	560,588 (34,999)	100.0	32.1 (1.3)	33.2 (1.6)	8.1 (0.5)	6.3 (0.5)	18.8 (1.1)	1.4 (0.2)
Expected source of payment <sup>9</sup>								
Private insurance . . . . .	640,928 (30,361)	100.0	34.5 (1.1)	29.9 (1.3)	7.6 (0.5)	6.4 (0.4)	19.9 (0.9)	1.6 (0.2)
Medicare . . . . .	239,121 (15,179)	100.0	24.8 (1.2)	46.2 (1.6)	8.5 (0.6)	8.1 (0.7)	10.5 (0.9)	1.9 (0.3)
Medicare and Medicaid <sup>10</sup> . . . . .	17,441 (1,856)	100.0	22.2 (2.5)	47.3 (3.8)	8.3 (1.9)	6.8 (1.2)	14.0 (3.2)	* . . .
Medicaid or SCHIP <sup>11</sup> . . . . .	122,384 (9,781)	100.0	34.5 (1.9)	23.8 (2.0)	8.1 (0.9)	4.3 (0.5)	28.2 (2.0)	1.2 (0.3)
Self-pay, no charge, or charity . . . . .	64,237 (7,737)	100.0	35.5 (2.8)	32.7 (2.8)	7.0 (0.9)	*5.2 (1.9)	18.0 (2.9)	1.5 (0.3)
Other <sup>12</sup> . . . . .	67,191 (10,559)	100.0	35.2 (2.2)	31.4 (2.8)	6.2 (0.9)	7.6 (1.1)	17.2 (1.9)	*2.5 (0.8)

\* Figure does not meet standards of reliability or precision.

. . . . . Category not applicable.

<sup>1</sup>Preventive care includes routine prenatal, well-baby, screening, insurance, or general exams (see question 4c in Figure I).<sup>2</sup>For 2007, race data were missing for 31.5 percent of visits, and ethnicity data were missing for 34.7 percent of visits. Readers are therefore advised to treat these data with caution. In this table, estimates based on imputed race and ethnicity data are shown separately from comparison estimates using unimputed data. Missing race and ethnicity were imputed using a hot deck approach rather than the previously used cold deck strategy. The imputation process is described more fully in the 2007 public-use file documentation ([ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/NAMCS/doc07.pdf](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NAMCS/doc07.pdf)). Research is currently underway to evaluate further changes to the imputation strategy for use with 2008 data.<sup>3</sup>The race groups, White, Black or African American, and Other, include persons of Hispanic and not Hispanic origin. Persons of Hispanic origin may be of any race. Race-specific estimates were tabulated according to 1997 Standards for Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race in household surveys.<sup>4</sup>“Reported plus imputed” includes race that was reported directly by NAMCS, and imputed values for the 31.5 percent of visits for which race was not reported.<sup>5</sup>Other race includes visits by Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, and multiple races.<sup>6</sup>“Reported only” calculations are based on 680,983 visits (in thousands) with race reported directly by NAMCS. The 31.5 percent of visits for which race was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed race values.<sup>7</sup>“Reported plus imputed” includes ethnicity that was reported directly by NAMCS, and imputed values for the 34.7 percent of visits for which ethnicity was not reported.

<sup>8</sup>“Reported only” calculations are based on 649,370 visits (in thousands) with ethnicity reported directly by NAMCS. The 34.7 percent visits for which ethnicity was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed ethnicity values.

<sup>9</sup>Combined total of individual sources exceeds “all visits” because more than one source may be reported per visit.

<sup>10</sup>The visits in this category are also included in both the Medicare and Medicaid or SCHIP categories.

<sup>11</sup>SCHIP is the State Children’s Health Insurance Program.

<sup>12</sup>Other includes worker’s compensation, unknown or blank, and payments not classified elsewhere.

NOTE: Numbers may not add to totals because of rounding.

**Table 11. Number, percent distribution, and annual rate of preventive care office visits and percentage of visits to primary care specialists with corresponding standard errors, by selected patient and visit characteristics: United States, 2007**

Patient and visit characteristics	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>1</sup>	Standard error of percent	Percent of preventive care visits made to primary care specialists <sup>2</sup>	Standard error of percent
All preventive care visits <sup>3</sup> . . . . .	193,342	10,407	100.0	...	65.3	3.5	84.2	1.7
Age								
Under 15 years . . . . .	52,954	4,708	27.4	2.0	87.0	7.7	97.0	0.7
Under 1 year . . . . .	17,269	1,738	8.9	0.8	406.0	40.9	99.0	0.7
1–4 years . . . . .	17,894	1,948	9.3	0.8	108.7	11.8	97.6	0.8
5–14 years . . . . .	17,791	1,880	9.2	0.8	44.3	4.7	94.5	1.4
15–24 years . . . . .	25,109	2,024	13.0	0.9	60.5	4.9	91.9	2.2
25–44 years . . . . .	48,550	3,640	25.1	1.3	59.4	4.5	88.8	2.2
45–64 years . . . . .	39,133	2,725	20.2	0.9	51.5	3.6	74.6	2.6
65 years and over . . . . .	27,596	2,586	14.3	1.0	76.1	7.1	58.4	4.6
65–74 years . . . . .	13,921	1,265	7.2	0.5	72.9	6.6	60.0	4.5
75 years and over . . . . .	13,675	1,556	7.1	0.7	79.8	9.1	56.7	5.6
Sex and age								
Female . . . . .	125,446	7,015	64.9	1.6	82.9	4.6	87.7	1.5
Under 15 years . . . . .	25,401	2,422	13.1	1.0	85.5	8.2	96.7	0.9
15–24 years . . . . .	20,170	1,950	10.4	0.9	98.3	9.5	95.8	1.4
25–44 years . . . . .	40,108	3,122	20.7	1.3	97.4	7.6	93.3)	1.4
45–64 years . . . . .	23,880	1,859	12.4	0.7	61.1	4.8	78.7	2.7
65–74 years . . . . .	7,343	746	3.8	0.3	71.1	7.2	65.5	5.0
75 years and over . . . . .	8,544	1,144	4.4	0.5	82.3	11.0	60.3	6.2
Male . . . . .	67,896	5,118	35.1	1.6	46.8	3.5	77.7	2.8
Under 15 years . . . . .	27,553	2,600	14.3	1.1	88.5	8.4	97.3	0.7
15–24 years . . . . .	4,939	782	2.6	0.4	23.6	3.7	76.0	7.2
25–44 years . . . . .	8,441	1,483	4.4	0.7	20.9	3.7	67.4	8.2
45–64 years . . . . .	15,254	1,398	7.9	0.6	41.3	3.8	68.1	3.9
65–74 years . . . . .	6,578	840	3.4	0.4	75.0	9.6	53.9	5.6
75 years and over . . . . .	5,131	731	2.7	0.4	75.9	10.8	50.7	7.2
Race <sup>4,5</sup>								
Reported . . . . .	131,714	8,781	68.1	2.8	44.5	3.0	83.3	2.3
Imputed (missing) . . . . .	61,628	6,329	31.9	2.8	20.8	2.1	86.2	2.1
Reported plus imputed <sup>6</sup>								
White . . . . .	149,978	8,383	77.6	1.5	63.2	3.5	82.7	2.0
Black or African American . . . . .	28,089	3,060	14.5	1.3	75.2	8.2	88.3	2.6
Other <sup>7</sup> . . . . .	15,275	2,055	7.9	1.0	71.0	9.6	91.8	1.8
Reported only <sup>8</sup>								
White . . . . .	105,124	7,747	79.8	1.8	44.3	3.3	81.7	2.6
Black or African American . . . . .	18,834	2,319	14.3	1.6	50.4	6.2	88.5	3.1
Other <sup>7</sup> . . . . .	7,756	1,387	5.9	1.0	36.0	6.4	92.3	2.9
Ethnicity <sup>4,5</sup>								
Reported . . . . .	128,156	9,613	66.3	2.9	43.3	3.2	84.2	2.3
Imputed (missing) . . . . .	65,186	6,191	33.7	2.9	22.0	2.1	84.3	2.6
Reported plus imputed <sup>9</sup>								
Hispanic or Latino . . . . .	32,988	3,848	17.1	1.8	73.4	8.6	89.2	2.5
Not Hispanic or Latino . . . . .	160,355	9,505	82.9	1.8	63.8	3.8	83.2	1.8
Reported only <sup>10</sup>								
Hispanic or Latino . . . . .	22,869	3,347	17.8	2.4	50.9	7.4	90.9	2.4
Not Hispanic or Latino . . . . .	105,287	8,825	82.2	2.4	41.9	3.5	82.7	2.5

See footnotes at end of table.

**Table 11. Number, percent distribution, and annual rate of preventive care office visits and percentage of visits to primary care specialists with corresponding standard errors, by selected patient and visit characteristics: United States, 2007—Con.**

Patient and visit characteristics	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>1</sup>	Standard error of percent	Percent of preventive care visits made to primary care specialists <sup>2</sup>	Standard error of percent
Expected source of payment <sup>11</sup>								
Private insurance . . . . .	127,847	8,032	66.1	2.0	66.5	4.2	85.5	1.9
Medicare . . . . .	25,215	2,414	13.0	0.9	64.0	6.1	60.4	4.9
Medicare and Medicaid <sup>12</sup> . . . . .	2,445	668	1.3	0.3	...	...	85.8	6.0
Medicaid or SCHIP <sup>13</sup> . . . . .	34,520	3,975	17.9	1.8	98.5	11.3	94.3	1.8
Self-pay, no charge, or charity . . . . .	11,563	2,453	6.0	1.2	26.8	5.7	86.1	3.5
Other <sup>14</sup> . . . . .	11,531	2,545	6.0	1.3	...	...	64.4	12.7

... Category not applicable.

<sup>1</sup>Figure does not meet standards of reliability or precision.

<sup>1</sup>Visit rates for age, sex, race, and ethnicity are based on the July 1, 2007, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau. Visit rates for expected source(s) of payment are based on the 2007 National Health Interview Survey estimates of health insurance.

<sup>2</sup>Primary care specialty defined in the 2007 NAMCS Public Use Data File Documentation (see [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/NAMCS/doc07.pdf](http://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NAMCS/doc07.pdf)).

<sup>3</sup>Preventive care includes routine prenatal, well-baby, screening, insurance, or general exams (see question 4c in Figure I).

<sup>4</sup>For 2007, race data were missing for 31.5 percent of visits and ethnicity data were missing for 34.7 percent of visits. Readers are therefore advised to treat these data with caution. In this table, estimates based on imputed race and ethnicity data are shown separately from comparison estimates using unimputed data. Missing race and ethnicity were imputed using a hot deck approach rather than the previously used cold deck strategy. The imputation process is described more fully in the 2007 public use file documentation ([ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/NAMCS/doc07.pdf](http://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NAMCS/doc07.pdf)). Research is currently underway to evaluate further changes to the imputation strategy for use with 2008 data.

<sup>5</sup>The race groups, White, Black or African American, and Other, include persons of Hispanic and not Hispanic origin. Persons of Hispanic origin may be of any race. Race-specific estimates have been tabulated according to 1997 Standards for Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race in household surveys.

<sup>6</sup>"Reported plus imputed" includes race that was reported directly by NAMCS, and imputed values for the 31.9 percent of preventive care visits for which race was not reported.

<sup>7</sup>Other race includes visits by Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, and multiple races.

<sup>8</sup>"Reported only" calculations are based on 131,714 visits (in thousands) with race reported directly by NAMCS. The 31.9 percent of preventive care visits for which race was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed race values.

<sup>9</sup>"Reported plus imputed" includes ethnicity that was reported directly by NAMCS, and imputed values for the 33.7 percent of preventive care visits for which ethnicity was not reported.

<sup>10</sup>"Reported only" calculations are based on 128,156 preventive care visits (in thousands) with ethnicity reported directly by NAMCS. The 33.7 percent of preventive care visits for which ethnicity was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed ethnicity values.

<sup>11</sup>Combined total of individual sources exceeds all visits because more than one may be reported per visit.

<sup>12</sup>The visits in this category are also included in both the Medicare and Medicaid or SCHIP categories.

<sup>13</sup>SCHIP is the State Children's Health Insurance Program.

<sup>14</sup>Other includes worker's compensation, unknown or blank, and payments not classified elsewhere.

NOTE: Numbers may not add to totals because of rounding.

**Table 12. Number and percent distribution of office visits with corresponding standard errors by primary diagnosis classified by major disease category: United States, 2007**

Major disease category and ICD-9-CM code range <sup>1</sup>	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent
All visits . . . . .	994,321	39,975	100.0	...
Infectious and parasitic diseases . . . . .001-139	24,399	1,850	2.5	0.2
Neoplasms . . . . .140-239	36,170	3,418	3.6	0.3
Endocrine, nutritional, metabolic diseases, and immunity disorders . . .240-279	50,891	3,956	5.1	0.3
Mental disorders . . . . .290-319	51,461	3,872	5.2	0.4
Diseases of the nervous system and sense organs . . . . .320-389	95,689	6,867	9.6	0.6
Diseases of the circulatory system . . . . .390-459	79,697	4,721	8.0	0.4
Diseases of the respiratory system . . . . .460-519	106,961	6,960	10.8	0.6
Diseases of the digestive system . . . . .520-579	31,564	2,945	3.2	0.3
Diseases of the genitourinary system . . . . .580-629	38,298	3,041	3.9	0.2
Diseases of the skin and subcutaneous tissue . . . . .680-709	51,053	3,985	5.1	0.4
Diseases of the musculoskeletal and connective tissue . . . . .710-739	84,567	7,428	8.5	0.6
Symptoms, signs, and ill-defined conditions . . . . .780-799	63,932	4,040	6.4	0.3
Injury and poisoning . . . . .800-999	45,458	3,959	4.6	0.4
Supplementary classification <sup>2</sup> . . . . .V01-V85	197,552	12,485	19.9	0.8
All other diagnoses <sup>3</sup> . . . . .	27,582	2,880	2.8	0.3
Blank <sup>4</sup> . . . . .	9,047	1,692	0.9	0.2

... Category not applicable.

<sup>1</sup>Based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM) (10).

<sup>2</sup>Includes general medical examination, routine prenatal examination, and health supervision of an infant or child, and other diagnoses not classifiable to injury or illness.

<sup>3</sup>Includes diseases of the blood and blood-forming organs (280-289); complications of pregnancy, childbirth, and the puerperium (630-677); congenital anomalies (740-759); certain conditions originating in the perinatal period (760-779); and entries not codable to the ICD-9-CM (e.g., illegible entries, left against medical advice, transferred, entries of "none," or no "diagnoses").

NOTE: Numbers may not add to totals because of rounding.



**Table 13. Number and percent distribution of office visits with corresponding standard errors, by the 20 leading primary diagnosis groups, according to patient's sex: United States, 2007**

Primary diagnosis group and ICD-9-CM code(s) <sup>1</sup>	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Female <sup>2</sup>		Male <sup>3</sup>	
					Percent distribution	Standard error of percent	Percent distribution	Standard error of percent
All visits . . . . .	994,321	39,975	100.0	...	100.0	...	100.0	...
Essential hypertension . . . . .401	42,157	3,455	4.2	0.3	3.9	0.3	4.7	0.4
Routine infant or child health check . . . . .V20.2	39,930	3,657	4.0	0.3	3.4	0.3	4.9	0.4
Acute upper respiratory infections, excluding pharyngitis . . . . .460-461,463-466	33,614	2,660	3.4	0.2	3.2	0.2	3.7	0.3
Arthropathies and related disorders . . . . .710-719	32,671	4,082	3.3	0.4	3.6	0.5	2.9	0.3
Spinal disorders . . . . .720-724	26,704	3,084	2.7	0.3	2.7	0.3	2.7	0.4
Malignant neoplasms . . . . .140-208,230-234	25,220	2,818	2.5	0.3	2.2	0.3	3.1	0.3
Diabetes mellitus . . . . .250	24,156	2,635	2.4	0.2	2.0	0.2	3.0	0.3
Rheumatism, excluding back . . . . .725-729	19,417	1,956	2.0	0.2	2.2	0.2	1.5	0.2
Specific procedures and aftercare . . . . .V50-V59.9	19,351	2,317	1.9	0.2	1.9	0.2	2.0	0.2
General medical examination . . . . .V70	19,162	2,373	1.9	0.2	1.9	0.2	2.0	0.4
Follow up examination . . . . .V67	18,687	3,047	1.9	0.3	1.7	0.3	2.1	0.4
Normal pregnancy . . . . .V22	16,871	2,351	1.7	0.2	2.9	0.4	...	...
Otitis media and eustachian tube disorders . . . . .381-382	14,771	1,378	1.5	0.1	1.2	0.1	1.8	0.2
Asthma . . . . .493	13,872	2,309	1.4	0.2	1.2	0.2	1.7	0.3
Gynecological examination . . . . .V72.3	13,597	2,478	1.4	0.2	2.3	0.4	...	...
Heart disease, excluding ischemic . . . . .391-392.0,393-398,402,404,415-416,420-429	13,421	1,628	1.3	0.2	1.1	0.2	1.6	0.2
Allergic rhinitis . . . . .477	12,871	2,553	1.3	0.3	1.3	0.3	1.3	0.2
Ischemic heart disease . . . . .410-414.9	12,378	1,441	1.2	0.1	0.8	0.1	1.9	0.2
Glaucoma . . . . .365	11,964	2,361	1.2	0.2	1.2	0.3	1.2	0.2
Benign neoplasms . . . . .210-229,235-239	10,950	1,124	1.1	0.1	1.1	0.1	1.1	0.1
All other diagnoses <sup>4</sup> . . . . .	572,557	22,439	57.6	0.7	58.1	0.9	56.8	0.8

... Category not applicable.

<sup>1</sup>Based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM) (10). However, certain codes have been combined in this table to form larger categories that better describe the utilization of ambulatory care services.

<sup>2</sup>Based on 580,542,000 visits made by females.

<sup>3</sup>Based on 413,779,000 visits made by males.

<sup>4</sup>Includes all other diagnoses not listed above, as well as unknown and blank diagnoses.

NOTE: Numbers may not add to totals because of rounding.

**Table 14. Number, percent distribution, and annual rate of office visits related to injury, poisoning, or adverse effects of medical treatment with corresponding standard errors, by selected patient characteristics: United States, 2007**

Patient and visit characteristics	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Number of visits per 100 persons per year <sup>1</sup>	Standard error of rate
All injury-related visits <sup>2</sup>	106,451	6,529	100.0	...	35.9	2.2
Age						
Under 15 years	13,858	1,302	13.0	1.2	22.8	2.1
Under 1 year	*	*	*	...		
1–4 years	4,140	558	3.9	0.5	25.1	3.4
5–14 years	8,793	903	8.3	0.8	21.9	2.3
15–24 years	11,879	1,082	11.2	0.7	28.6	2.6
25–44 years	24,339	2,078	22.9	1.3	29.8	2.5
45–64 years	31,370	2,427	29.5	1.0	41.2	3.2
65 years and over	25,005	2,054	23.5	1.4	69.0	5.7
65–74 years	13,196	1,207	12.4	0.8	69.1	6.3
75 years and over	11,809	1,130	11.1	0.9	68.9	6.6
Sex and age						
Female	53,272	3,439	50.0	1.2	35.2	2.3
Under 15 years	5,716	748	5.4	0.6	19.2	2.5
15–24	4,169	527	3.9	0.5	20.3	2.6
25–44	12,363	1,060	11.6	0.8	30.0	2.6
45–64	16,549	1,437	15.5	0.8	42.3	3.7
65–74	7,284	804	6.8	0.6	70.5	7.8
75 years and over	7,191	779	6.8	0.6	69.3	7.5
Male	53,178	3,540	50.0	1.2	36.7	2.4
Under 15 years	8,141	876	7.6	0.9	26.2	2.8
15–24	7,710	877	7.2	0.6	36.8	4.2
25–44	11,976	1,359	11.3	1.0	29.6	3.4
45–64	14,820	1,314	13.9	0.8	40.1	3.6
65–74	5,912	617	5.6	0.5	67.4	7.0
75 years and over	4,619	523	4.3	0.5	68.3	7.7
Race <sup>3,4</sup>						
Reported	69,219	5,228	65.0	3.0	23.4	1.8
Imputed (missing)	37,231	4,050	35.0	3.0	12.6	1.4
Reported plus imputed <sup>5</sup>						
White	89,248	6,065	83.8	1.4	37.6	2.6
Black or African American	11,595	1,182	10.9	1.0	31.0	3.2
Other <sup>6</sup>	5,608	797	5.3	0.8	26.1	3.7
Reported only <sup>7</sup>						
White	59,005	5,019	85.2	1.5	24.9	2.1
Black or African American	7,676	848	11.1	1.2	20.6	2.3
Other <sup>6</sup>	2,539	428	3.7	0.7	11.8	2.0
Ethnicity <sup>3,4</sup>						
Reported	62,398	4,743	58.6	3.2	21.1	1.6
Imputed (missing)	44,053	4,672	41.4	3.2	14.9	1.6
Reported plus imputed <sup>8</sup>						
Hispanic or Latino	10,935	1,186	10.3	0.9	24.3	2.6
Not Hispanic or Latino	95,515	5,981	89.7	0.9	38.0	2.4
Reported only <sup>9</sup>						
Hispanic or Latino	5,936	683	9.5	1.0	13.2	1.5
Not Hispanic or Latino	56,462	4,502	90.5	1.0	22.5	1.8

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

<sup>1</sup>Visit rates for age, sex, race, and ethnicity are based on the July 1, 2007, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau.

<sup>2</sup>Injury visits included injury, poisoning, or adverse effects of medical treatment based on item 2 of the PRF. Injury visits represent 10.7 percent (SE=0.5) of all office visits.

<sup>3</sup>For 2007, race data were missing for 31.5 percent of all visits, and ethnicity data were missing for 34.7 percent of all visits. Readers are therefore advised to treat these data with caution. In this table, estimates based on imputed race and ethnicity data are shown separately from comparison estimates using unimputed data. Missing race and ethnicity were imputed using a hot deck approach rather than the previously used cold deck strategy. The imputation process is described more fully in the 2007 public-use file documentation (Supplementary). Research is currently underway to evaluate further changes to the imputation strategy for use with 2008 data.

<sup>4</sup>The race groups, White, Black or African American, and Other, include persons of Hispanic and not Hispanic origin. Persons of Hispanic origin may be of any race. Starting with data year 1999, race-specific estimates have been tabulated according to 1997 Standards for Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race in household surveys.

<sup>5</sup>"Reported plus imputed" includes race that was reported directly by NAMCS, and imputed values for the 35.0 percent of injury-related visits for which race was not reported.

<sup>6</sup>Other race includes visits by Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, and multiple races.

<sup>7</sup>"Reported only" calculations are based on 69,219 injury-related visits (in thousands) with race reported directly by NAMCS.

The 35.0 percent of injury-related visits for which race was missing are excluded from the demoninator, so that readers can compare differences between estimates that include and exclude imputed race values.

<sup>8</sup>“Reported plus imputed” includes ethnicity that was reported directly by NAMCS, and imputed values for the 41.4 percent of injury-related visits for which ethnicity was not reported.

<sup>9</sup>“Reported only” calculations are based on 62,398 injury-related visits (in thousands) with ethnicity reported directly by NAMCS.

The 41.4 percent of visits for which ethnicity was missing are excluded from the demoninator, so that readers can compare differences between estimates that include and exclude imputed ethnicity values.

**Table 15. Number and percent distribution of office visits related to injury, poisoning, or adverse effects of medications with corresponding standard errors, by intent: United States, 2007**

Intent	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent
All injury-related visits . . . . .	106,451	6,529	100.0	...
Unintentional injury or poisoning . . . . .	68,842	4,815	64.7	1.8
Intentional injury or poisoning <sup>1</sup> . . . . .	1,677	391	1.6	0.4
Injury or poisoning of unknown intent <sup>2</sup> . . . . .	27,179	2,529	25.5	1.8
Adverse effect of medical or surgical care or adverse effect of medicinal drug . . . . .	8,752	785	8.2	0.7

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

<sup>1</sup>Category includes assault, self-inflicted, and other causes of violence.

<sup>2</sup>Category includes illegible entries and blanks.

NOTE: Numbers may not add to totals because of rounding.

**Table 16. Percent distribution of office visits by selected chronic conditions with corresponding standard errors, according to patient's age and sex: United States, 2007**

Chronic conditions <sup>1</sup>	Total	Patient age				Patient sex	
		Under 45 years	45–64 years	65–74 years	75 years and over	Female	Male
		Percent of visits (standard error)					
All visits . . . . .	100.0 ...	100.0 ...	100.0 ...	100 ...	100.0 ...	100.0 ...	100.0 ...
At least one condition . . . . .	52.1 (0.9)	27.5 (0.8)	67.5 (1.1)	77.1 (1.3)	79.3 (1.3)	51.3 (1.0)	53.1 (1.1)
None . . . . .	44.6 (0.9)	68.6 (0.9)	29.4 (1.0)	20.0 (1.2)	18.1 (1.2)	44.9 (1.0)	44.1 (1.1)
Blank . . . . .	3.4 (0.5)	3.9 (0.6)	3.1 (0.6)	2.9 (0.7)	2.5 (0.5)	3.8 (0.7)	2.8 (0.4)
Hypertension . . . . .	23.7 (0.7)	5.3 (0.4)	32.4 (1.0)	44.6 (1.5)	48.1 (1.6)	22.5 (0.7)	25.4 (0.8)
Arthritis . . . . .	12.7 (0.7)	4.0 (0.3)	17.2 (0.9)	21.9 (1.5)	24.2 (1.4)	14.0 (0.8)	10.8 (0.6)
Hyperlipidemia . . . . .	12.4 (0.6)	2.8 (0.3)	17.5 (1.0)	23.7 (1.4)	23.2 (1.5)	10.9 (0.6)	14.5 (0.8)
Diabetes . . . . .	10.3 (0.4)	2.5 (0.2)	13.8 (0.7)	21.9 (1.1)	17.9 (1.2)	9.3 (0.4)	11.6 (0.6)
Depression . . . . .	8.6 (0.5)	6.9 (0.5)	12.5 (0.8)	7.4 (0.7)	7.0 (0.7)	10.1 (0.6)	6.4 (0.5)
Obesity . . . . .	6.1 (0.4)	5.0 (0.4)	9.0 (0.7)	6.4 (0.8)	3.2 (0.5)	6.8 (0.5)	5.2 (0.5)
Cancer . . . . .	6.0 (0.4)	1.1 (0.1)	6.9 (0.5)	12.8 (0.9)	14.7 (1.0)	5.2 (0.4)	7.1 (0.4)
Asthma . . . . .	5.9 (0.3)	7.0 (0.6)	5.5 (0.4)	5.3 (0.5)	3.8 (0.4)	6.1 (0.4)	5.6 (0.4)
Ischemic heart disease . . . . .	4.3 (0.4)	* 0.4 (0.1)	4.3 (0.4)	9.1 (0.8)	13.3 (1.2)	2.9 (0.3)	6.3 (0.6)
COPD <sup>2</sup> . . . . .	3.6 (0.3)	1.7 (0.3)	3.5 (0.3)	7.1 (0.8)	6.6 (0.7)	3.3 (0.2)	4.0 (0.4)
Osteoporosis . . . . .	1.9 (0.1)	* ...	1.8 (0.2)	3.7 (0.4)	6.2 (0.5)	2.8 (0.2)	0.5 (0.1)
CHF <sup>3</sup> . . . . .	1.8 (0.2)	* ...	1.5 (0.2)	3.9 (0.6)	6.1 (0.7)	1.5 (0.2)	2.2 (0.3)
Cerebrovascular disease . . . . .	1.5 (0.1)	0.1 (0.0)	1.5 (0.2)	3.3 (0.4)	4.8 (0.5)	1.2 (0.1)	2.0 (0.2)
Chronic renal failure . . . . .	0.9 (0.1)	* ...	0.8 (0.2)	2.0 (0.4)	2.5 (0.4)	0.6 (0.1)	1.2 (0.2)

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Presence of chronic conditions was based on checkbox responses and visit diagnoses, because unmarked chronic condition items were edited as present when comparable diagnoses were reported.

<sup>2</sup>COPD is chronic obstructive pulmonary disease.

<sup>3</sup>CHF is congestive heart failure.

**Table 17. Number and percentage of office visits with corresponding standard errors, by diagnostic and screening services ordered or provided, according to patient's sex: United States, 2007**

Diagnostic and screening services ordered or provided	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Female <sup>2</sup>		Male <sup>3</sup>	
					Percent of visits	Standard error of percent	Percent of visits	Standard error of percent
All visits . . . . .	994,321	39,975	100.0	...	58.4	0.7	41.6	0.7
One or more diagnostic or screening service ordered or provided. . .	872,369	36,866	87.7	0.8	88.0	0.8	87.3	0.9
None . . . . .	112,535	8,289	11.3	0.8	11.0	0.8	11.7	0.9
Blank . . . . .	9,417	1,820	0.9	0.2	1.0	0.2	0.9	0.2
Examinations								
Skin . . . . .	138,605	10,686	13.9	0.9	13.0	0.9	15.3	1.1
Pelvic . . . . .	59,182	6,123	6.0	0.6	9.1	0.8	*1.5	0.5
Breast . . . . .	53,041	5,689	5.3	0.5	8.1	0.7	*1.4	0.5
Rectal . . . . .	28,538	3,483	2.9	0.3	2.7	0.4	3.1	0.4
Depression screening . . . . .	14,029	3,381	1.4	0.3	1.5	0.3	1.3	0.4
Vital signs								
Weight . . . . .	677,537	30,757	68.1	1.3	69.0	1.3	67.0	1.5
Blood pressure . . . . .	569,466	28,299	57.3	1.2	60.1	1.3	53.3	1.3
Height . . . . .	410,386	24,241	41.3	1.7	41.5	1.8	41.0	1.8
Temperature . . . . .	337,972	22,472	34.0	1.8	32.4	1.8	36.2	2.0
Blood tests								
CBC <sup>4</sup> . . . . .	118,278	9,599	11.9	0.8	12.0	0.8	11.8	0.9
Lipids or cholesterol . . . . .	75,361	6,974	7.6	0.6	6.8	0.5	8.7	0.8
Glucose . . . . .	52,664	4,585	5.3	0.4	5.3	0.4	5.4	0.5
Electrolytes . . . . .	38,877	4,376	3.9	0.4	3.6	0.4	4.4	0.5
HgbA1C <sup>5</sup> . . . . .	26,286	3,586	2.6	0.3	2.4	0.3	2.9	0.4
PSA <sup>6</sup> . . . . .	17,187	2,128	1.7	0.2	...	...	4.2	0.4
Other blood test . . . . .	106,882	7,083	10.7	0.6	11.1	0.7	10.2	0.7
Other tests								
Urinalysis . . . . .	74,270	6,247	7.5	0.5	8.0	0.5	6.7	0.7
EKG or ECG <sup>7</sup> . . . . .	29,067	5,059	2.9	0.5	2.5	0.3	3.5	0.7
Any Pap test <sup>2</sup> . . . . .	28,929	3,133	2.9	0.3	5.0	0.5	...	...
Liquid-based . . . . .	17,103	3,066	1.7	0.3	2.9	0.5	...	...
Conventional . . . . .	6,612	1,035	0.7	0.1	1.1	0.2	...	...
Unspecified . . . . .	5,242	1,278	0.5	0.1	0.9	0.2	...	...
Biopsy . . . . .	16,057	1,647	1.6	0.1	1.6	0.2	1.6	0.2
Any scope procedure . . . . .	16,937	2,042	1.7	0.2	1.6	0.2	1.8	0.2
Other scope procedure . . . . .	9,823	1,339	1.0	0.1	1.0	0.1	0.9	0.1
Sigmoidoscopy or colonoscopy . . . . .	7,887	1,475	0.8	0.1	0.7	0.2	0.9	0.2
Cystoscopy . . . . .	2,077	236	0.2	0.0	0.1	0.0	0.3	0.0
Spirometry or pulmonary function test . . . . .	6,893	1,831	0.7	0.2	0.6	0.2	0.8	0.2
Chlamydia test . . . . .	3,904	658	0.4	0.1	0.6	0.1	*	...
Pregnancy test <sup>2</sup> . . . . .	3,755	651	0.4	0.1	0.6	0.1	...	...
HPV DNA test <sup>8</sup> . . . . .	2,130	593	0.2	0.1	0.4	0.1	*	...
Other test or service . . . . .	174,285	15,290	17.5	1.3	16.9	1.2	18.5	1.6
Imaging								
Any imaging . . . . .	143,945	8,695	14.5	0.6	15.9	0.7	12.5	0.7
X-ray . . . . .	62,528	5,251	6.3	0.4	6.0	0.4	6.6	0.5
Other ultrasound . . . . .	23,661	2,538	2.4	0.2	3.1	0.3	1.4	0.2
MRI <sup>9</sup> . . . . .	18,490	2,224	1.9	0.2	1.8	0.2	2.0	0.2
Mammography . . . . .	17,090	2,146	1.7	0.2	2.9	0.3	...	...
CT scan <sup>10</sup> . . . . .	14,694	1,433	1.5	0.1	1.4	0.1	1.6	0.2
Echocardiogram . . . . .	11,970	1,555	1.2	0.1	1.1	0.1	1.4	0.2
Bone mineral density . . . . .	3,748	578	0.4	0.1	0.5	0.1	*	...
PET scan <sup>11</sup> . . . . .	1,819	383	0.2	0.0	*0.2	0.1	0.2	0.0
Other imaging . . . . .	9,940	1,327	1.0	0.1	1.0	0.2	1.0	0.1

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Combined total of individual sources exceeds all visits because more than one may be reported per visit.<sup>2</sup>Based on 580,542,000 visits made by females.<sup>3</sup>Based on 413,779,000 visits made by males.<sup>4</sup>CBC is complete blood count.<sup>5</sup>HgbA1C is glycohemoglobin.<sup>6</sup>PSA is prostate-specific antigen.<sup>7</sup>EKG or ECG is electrocardiogram.

<sup>8</sup>DNA is deoxyribonucleic acid. HPV is human papilloma virus. Based on visits made by females.

<sup>9</sup>MRI is magnetic resonance imaging.

<sup>10</sup>CT is computed tomography.

<sup>11</sup>PET is positron emission tomography.

**Table 18. Percent distribution of initial blood pressure measurements for adults 18 years and over at physician office visits where blood pressure was recorded with corresponding standard errors, by selected patient characteristics: United States, 2007**

Patient characteristics	Number of visits in thousands	Total	Initial blood pressure <sup>1</sup>				
			Low	Normal	Mildly high	Moderately high	Severely high
			Percent distribution (standard error)				
All visits <sup>2</sup>	518,405	100.0	5.1 (0.4)	23.6 (0.7)	46.0 (0.8)	18.8 (0.6)	6.5 (0.3)
<b>Age</b>							
18–24 years	36,183	100.0	10.4 (1.3)	43.6 (2.4)	38.1 (2.2)	6.2 (1.0)	* ...
25–44 years	143,464	100.0	6.7 (0.8)	33.0 (1.2)	44.3 (1.4)	12.4 (0.9)	3.7 (0.4)
45–64 years	181,312	100.0	3.1 (0.3)	19.5 (0.8)	48.5 (1.0)	21.9 (0.9)	7.0 (0.5)
65–74 years	78,445	100.0	3.7 (0.5)	15.9 (1.1)	47.5 (1.4)	23.2 (1.0)	9.6 (0.8)
75 years and over	79,001	100.0	5.6 (0.6)	14.5 (1.1)	45.3 (1.6)	24.8 (1.1)	9.8 (0.8)
<b>Sex</b>							
Female	322,814	100.0	5.9 (0.5)	26.7 (0.8)	44.9 (0.8)	16.6 (0.7)	5.9 (0.4)
Male	195,592	100.0	3.6 (0.4)	18.5 (0.9)	47.9 (1.2)	22.4 (0.8)	7.6 (0.5)
<b>Race<sup>3,4</sup></b>							
Reported	363,165	100.0	4.4 (0.4)	23.4 (0.9)	46.2 (1.0)	19.1 (0.7)	6.9 (0.4)
Imputed (missing)	155,241	100.0	6.6 (0.8)	24.2 (1.1)	45.5 (1.5)	18.0 (1.0)	5.7 (0.6)
<b>Reported plus imputed<sup>5</sup></b>							
White	422,947	100.0	4.9 (0.4)	23.2 (0.7)	46.7 (0.9)	18.8 (0.6)	6.3 (0.3)
Black or African American	63,117	100.0	4.9 (1.0)	21.5 (1.9)	45.4 (1.7)	19.5 (1.4)	8.7 (0.9)
Asian	22,831	100.0	7.5 (1.8)	36.4 (3.0)	36.7 (3.3)	15.2 (2.0)	* ...
Other <sup>6</sup>	9,510	100.0	* ...	24.3 (3.6)	42.2 (4.1)	20.5 (4.5)	* ...
<b>Reported only<sup>7</sup></b>							
White	301,820	100.0	4.3 (0.4)	23.2 (0.9)	46.9 (1.0)	19.1 (0.8)	6.5 (0.4)
Black or African American	43,879	100.0	*4.1 (1.3)	19.4 (2.3)	45.5 (2.1)	21.2 (1.7)	9.8 (1.3)
Asian	14,766	100.0	8.6 (1.8)	38.4 (3.6)	33.6 (3.7)	13.6 (2.2)	* ...
Other <sup>6</sup>	2,699	100.0	* ...	26.6 (4.4)	45.0 (5.2)	20.0 (4.8)	* ...
<b>Ethnicity<sup>3,4</sup></b>							
Reported	340,826	100.0	4.3 (0.4)	23.6 (0.9)	46.2 (1.0)	19.3 (0.7)	6.7 (0.4)
Imputed (missing)	177,579	100.0	6.6 (0.8)	23.7 (1.1)	45.5 (1.6)	17.9 (1.1)	6.2 (0.6)
<b>Reported plus imputed<sup>8</sup></b>							
Hispanic or Latino	67,285	100.0	6.7 (0.9)	23.0 (1.5)	47.8 (1.9)	16.4 (1.2)	6.0 (0.8)
Not Hispanic or Latino	451,120	100.0	4.8 (0.4)	23.7 (0.7)	45.7 (0.8)	19.2 (0.6)	6.6 (0.3)
<b>Reported only<sup>9</sup></b>							
Hispanic or Latino	42,905	100.0	5.0 (0.7)	24.0 (2.0)	49.6 (2.7)	15.6 (1.4)	5.8 (1.0)
Not Hispanic or Latino	297,922	100.0	4.2 (0.4)	23.5 (1.0)	45.7 (1.1)	19.8 (0.7)	6.8 (0.5)

\* Figure does not meet standards of reliability or precision.

... Category not applicable.

<sup>1</sup>Blood pressure levels were categorized using the following hierarchical definitions. Severely high blood pressure is defined as 160 mm Hg systolic or above, or 100 mm Hg diastolic or above. Moderately high blood pressure is defined as 140–159 mm Hg systolic or 90–99 mm Hg diastolic. Mildly high blood pressure is defined as 120–139 mm Hg systolic or 80–89 mm Hg diastolic. Low blood pressure is defined as less than 100 mm Hg systolic or less than 60 mm Hg diastolic. Normal blood pressure is defined as 100–119 mm Hg systolic and 60–79 mm Hg diastolic. Blood pressure (BP) classification was based on the "Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation and Treatment of High Blood Pressure" (JNC-7)(8). "Mildly high" BP corresponds to the JNC-7 prehypertensive range. "Moderately high" BP corresponds to the JNC-7 stage 1 hypertensive range. "Severely high" BP corresponds to the JNC-7 stage 2 hypertensive range. Initial blood pressure was recorded if blood pressure was taken more than once.

<sup>2</sup>Visits where blood pressure was reported represent 64.9 percent (SE=1.3) of all office visits made by adults (18 years and over). In 26.1 percent (SE=1.5) of visits by children (0–17 years of age) a blood pressure was recorded.

<sup>3</sup>For 2007, race data were missing for 30.0 percent of visits where blood pressure was recorded, and ethnicity data were missing for 34.3 percent of these visits. Readers are therefore advised to treat these data with caution. In this table, estimates based on imputed race and ethnicity data are shown separately from comparison estimates using unimputed data. Missing race and ethnicity were imputed using a hot deck approach rather than the previously used cold deck strategy. The imputation process is described more fully in the 2007 public-use file documentation (<http://www.cdc.gov/nchs/about/major/ahcd/ahcd1.htm>). Research is currently underway to evaluate further changes to the imputation strategy for use with 2008 data.

<sup>4</sup>The race groups, White, Black or African American, Asian, and Other, include persons of Hispanic and not Hispanic origin. Persons of Hispanic origin may be of any race. Race-specific estimates have been tabulated according to 1997 Standards for Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race in household surveys.

<sup>5</sup>Reported plus imputed includes race that was reported directly by NAMCS, and imputed values for the 30.0 percent of visits for which race was not reported.

<sup>6</sup>Other race includes visits by Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, and multiple races.

<sup>7</sup>"Reported only" calculations are based on 363,165 visits (in thousands) where blood pressure was recorded with race reported directly by NAMCS. The 30.0 percent of these visits for which race was missing are excluded from the denominator so that readers can compare differences between estimates that include and exclude imputed ethnicity values.

<sup>8</sup>"Reported plus imputed" includes ethnicity that was reported directly by NAMCS, and imputed values for the 34.3 percent of visits for which ethnicity was not reported.

<sup>9</sup>"Reported only" calculations are based on 340,826 visits (in thousands) where blood pressure was recorded with ethnicity reported directly by NAMCS. The 34.3 percent of these visits for which ethnicity was missing are excluded from the denominator, so that readers can compare differences between estimates that include and exclude imputed ethnicity values.

**Table 19. Number and percentage of office visits with corresponding standard errors, by health education services ordered or provided, and by patient's sex: United States, 2007**

Health education services ordered or provided	Number of visits in thousands	Standard error in thousands	Percent of visits	Standard error of percent	Female <sup>2</sup>		Male <sup>3</sup>	
					Percent of visits	Standard error of percent	Percent of visits	Standard error of percent
All visits . . . . .	994,321	39,975	...	...	...	...	...	...
One or more health education services ordered or provided . . . . .	339,243	18,354	34.1	1.5	33.6	1.5	34.8	1.6
None . . . . .	627,925	31,002	63.2	1.5	63.2	1.6	63.1	1.6
Blank . . . . .	27,153	6,064	2.7	0.6	3.2	0.8	2.0	0.4
Diet and nutrition . . . . .	116,519	8,987	11.7	0.7	11.4	0.8	12.1	0.8
Exercise . . . . .	75,910	6,648	7.6	0.6	7.2	0.5	8.3	0.7
Growth and development . . . . .	35,926	5,233	3.6	0.5	3.0	0.4	4.4	0.7
Weight reduction . . . . .	32,944	3,216	3.3	0.3	3.2	0.3	3.4	0.4
Injury prevention . . . . .	26,272	3,849	2.6	0.4	2.2	0.4	3.3	0.4
Tobacco use or exposure . . . . .	26,027	2,776	2.6	0.2	2.3	0.2	3.0	0.4
Stress management . . . . .	21,881	2,488	2.2	0.2	2.2	0.3	2.2	0.3
Asthma education . . . . .	10,652	1,792	1.1	0.2	0.9	0.2	1.3	0.2
Other . . . . .	179,876	12,325	18.1	1.2	18.2	1.2	17.9	1.3

... Category not applicable.

<sup>1</sup>Combined total of individual health education services exceeds all visits because more than one may be reported per visit.

<sup>2</sup>Based on 580,542,000 visits made by females.

<sup>3</sup>Based on 413,779,000 visits made by males.

**Table 20. Number and percentage of office visits with corresponding standard errors, by nonmedication treatment ordered or provided: United States, 2007**

Nonmedication treatments ordered or provided	Number of visits in thousands	Standard error in thousands	Percent of visits	Standard error of percent
All visits . . . . .	994,321	39,975	...	...
One or more nonmedication treatments ordered or provided . . . . .	181,805	11,970	18.3	1.0
None . . . . .	763,554	32,320	76.8	1.1
Blank . . . . .	48,963	6,644	4.9	0.6
Excision of tissue . . . . .	23,650	2,253	2.4	0.2
Physical therapy . . . . .	22,189	2,845	2.2	0.3
Wound care . . . . .	18,805	2,302	1.9	0.2
Orthopedic care . . . . .	18,209	2,944	1.8	0.3
Psychotherapy . . . . .	18,046	2,925	1.8	0.3
Other mental health counseling . . . . .	9,856	1,626	1.0	0.2
Durable medical equipment . . . . .	6,607	1,300	0.7	0.1
Complementary alternative medicine (CAM) . . . . .	*6,139	2,247	*0.6	0.2
Home health care . . . . .	2,253	521	0.2	0.1
Speech or occupational therapy . . . . .	1,381	291	0.1	0.0
Radiation therapy . . . . .	915	175	0.1	0.0
Hospice care . . . . .	*	...	*	...

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Combined total of individual treatments exceeds all visits because more than one may be reported per visit.

**Table 21. Number and percent distribution of write-in surgical procedures ordered or performed with corresponding standard errors by procedure category: United States, 2007**

Procedure or operation category and ICD-9-CM code range <sup>1</sup>	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent
All write-in procedures . . . . .	82,972	6,640	100.0	...
Nervous system . . . . .01-05	2,910	833	3.5	0.9
Eye . . . . .08-16	6,869	1,817	8.3	2.0
Ear . . . . .18-20	*1,980	808	*2.4	0.9
Nose, mouth, and pharynx . . . . .21-29	3,497	893	4.2	1.0
Cardiovascular system . . . . .35-39	2,349	441	2.8	0.5
Digestive system . . . . .42-54	12,981	2,316	15.6	2.5
Urinary system . . . . .55-59	3,283	384	4.0	0.5
Male genital organs . . . . .60-64	734	139	0.9	0.2
Female genital organs . . . . .65-71	4,000	650	4.8	0.8
Obstetrical procedures . . . . .72-75	*1,509	481	*1.8	0.6
Musculoskeletal system . . . . .76-84	11,863	1,988	14.3	2.0
Integumentary system . . . . .85-86	29,536	3,488	35.6	3.0
Other procedures <sup>2</sup> . . . . .	1,460	359	1.8	0.4

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

<sup>1</sup>Based on the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM) (10). At least one surgical procedure was ordered or performed at 7.5 percent of office visits.

<sup>2</sup>Includes operations on the endocrine system (ICD-9-CM codes 06-07), operations on the respiratory system (ICD-9-CM codes 30-34), and operations on the hemic and lymphatic system (ICD-9-CM codes 40-41).

NOTE: Included are responses to the write-in fields on the Patient Record form under Diagnostic/Screening Services (item 7.23, Scope procedures; item 7.24, Biopsy; and item 7.34, Other exam/test/service) and Non-Medication Treatment (item 9.14 and 9.15, Procedures). Up to two procedures could be coded for items 7.34, 9.14, and 9.15, for a total of eight procedures per visit. In addition to the surgical procedures shown in this table, there were an additional 275,811,000 nonsurgical procedures reported (ICD-9-CM, Volume 3, codes 00, 87-99).

**Table 22. Number and percent distribution of office visits with corresponding standard errors, by medication therapy and number of medications provided or prescribed, according to patient's sex: United States, 2007**

Visit characteristic	Number of visits in thousands	Standard error in thousands	Percent distribution	Standard error of percent	Female <sup>2</sup>		Male <sup>3</sup>	
					Percent distribution	Standard error of percent	Percent distribution	Standard error of percent
<b>Medication therapy<sup>3</sup></b>								
All visits . . . . .	994,321	39,975	100.0	...	100.0	...	100.0	...
Visits with mention of medication <sup>4</sup> . . . . .	727,717	30,960	73.2	1.0	73.4	1.0	72.8	1.1
Visits without mention of medication . . . . .	266,604	14,337	26.8	1.0	26.6	1.0	27.2	1.1
<b>Number of medications provided or prescribed by a physician</b>								
All visits . . . . .	994,321	39,975	100.0	...	100.0	...	100.0	...
0 . . . . .	266,604	14,337	26.8	1.0	26.6	1.0	27.2	1.1
1 . . . . .	238,177	11,355	24.0	0.6	24.2	0.7	23.7	0.8
2 . . . . .	156,009	7,372	15.7	0.4	15.6	0.5	15.8	0.5
3 . . . . .	97,442	5,362	9.8	0.3	9.9	0.4	9.7	0.5
4 . . . . .	62,009	3,709	6.2	0.3	6.2	0.3	6.3	0.3
5 . . . . .	45,973	2,716	4.6	0.2	4.7	0.3	4.6	0.3
6 . . . . .	34,244	2,728	3.4	0.2	3.6	0.2	3.2	0.3
7 . . . . .	26,305	2,135	2.6	0.2	2.6	0.2	2.8	0.2
8 . . . . .	67,558	5,939	6.8	0.5	6.8	0.6	6.8	0.6

... Category not applicable.

<sup>1</sup>Based on 580,542,000 visits made by females.

<sup>2</sup>Based on 413,779,000 visits made by males.

<sup>3</sup>Includes prescription drugs, over-the-counter preparations, immunizations, and desensitizing agents.

<sup>4</sup>Also defined as drug visits.

NOTE: Numbers may not add to totals because of rounding.

**Table 23. Number and percent distribution of drug visits and drug mentions, percentage of visits with drug mentions, and drug mention rates per 100 visits with corresponding standard errors, by physician specialty: United States, 2007**

Physician specialty	Drug visits <sup>1</sup>		Drug mentions <sup>2</sup>		Percent of visits with drug mentions <sup>3</sup>	Drug mention rates <sup>4</sup>
	Number (standard error) in thousands	Percent distribution (standard error of percent)	Number (standard error) in thousands	Percent distribution (standard error of percent)	Percent distribution (standard error of percent)	Number of drug mentions per 100 visits (standard error of rate)
All specialties . . . . .	727,717 (30,960)	100.0 . . .	2,250,489 (115,505)	100.0 . . .	73.2 (1.0)	226.3 (7.1)
General and family practice . . . . .	184,634 (15,481)	25.4 (1.7)	583,173 (51,214)	25.9 (1.9)	81.0 (1.3)	256.0 (12.2)
Internal medicine . . . . .	119,312 (11,685)	16.4 (1.3)	428,297 (46,927)	19.0 (1.7)	83.0 (2.3)	298.0 (19.8)
Pediatrics . . . . .	95,882 (9,308)	13.2 (1.3)	190,877 (18,978)	8.5 (0.9)	73.3 (1.6)	145.9 (6.3)
Obstetrics and gynecology . . . . .	45,257 (5,859)	6.2 (0.8)	88,827 (12,248)	3.9 (0.5)	60.9 (3.3)	119.6 (8.2)
Ophthalmology . . . . .	38,426 (5,736)	5.3 (0.7)	117,773 (21,308)	5.2 (0.9)	65.1 (4.2)	199.6 (23.1)
Dermatology . . . . .	29,686 (3,336)	4.1 (0.5)	58,804 (7,829)	2.6 (0.4)	66.2 (4.3)	131.0 (14.3)
Psychiatry . . . . .	28,210 (3,670)	3.9 (0.5)	78,871 (13,783)	3.5 (0.6)	86.4 (3.2)	241.5 (21.8)
Cardiovascular diseases . . . . .	26,439 (3,633)	3.6 (0.5)	141,263 (20,778)	6.3 (0.8)	81.5 (5.5)	435.6 (36.5)
Orthopedic surgery . . . . .	25,349 (3,761)	3.5 (0.5)	64,995 (12,466)	2.9 (0.5)	49.5 (3.0)	126.8 (15.9)
Neurology . . . . .	14,129 (1,995)	1.9 (0.3)	47,013 (7,898)	2.1 (0.3)	80.5 (2.4)	267.8 (24.7)
Urology . . . . .	11,740 (1,628)	1.6 (0.2)	31,677 (5,539)	1.4 (0.2)	62.1 (3.7)	167.5 (21.3)
Otolaryngology . . . . .	11,695 (1,677)	1.6 (0.2)	29,346 (5,133)	1.3 (0.2)	57.9 (3.4)	145.3 (18.4)
Oncology . . . . .	10,673 (1,281)	1.5 (0.2)	46,275 (6,898)	2.1 (0.3)	68.5 (4.7)	297.0 (31.1)
General surgery . . . . .	8,581 (1,526)	1.2 (0.2)	30,274 (6,024)	1.3 (0.3)	43.7 (5.3)	154.2 (22.7)
All other specialties . . . . .	77,704 (9,948)	10.7 (1.3)	313,024 (45,147)	13.9 (1.8)	73.6 (3.4)	296.6 (22.3)

. . . Category not applicable.

<sup>1</sup>Visits at which one or more drugs were provided or prescribed.<sup>2</sup>Drug mentions are the number of drugs provided or prescribed at visits (up to eight per visit).<sup>3</sup>Percentage of visits that included one or more drugs provided or prescribed (number of visits with drug mentions divided by number of office visits multiplied by 100).<sup>4</sup>Average number of drugs that were provided or prescribed per 100 visits (number of drug mentions divided by total number of visits multiplied by 100).

NOTE: Numbers may not add to totals because of rounding.

**Table 24. Number and percentage of drug mentions for the 20 most frequently occurring therapeutic drug categories at office visits with corresponding standard errors: United States 2007**

Therapeutic drug category <sup>1</sup>	Number of visits in thousands	Standard error in thousands	Percent of drug mentions <sup>2</sup>	Standard error of percent
Analgesics <sup>3</sup> . . . . .	247,055	16,646	11.0	0.4
Antihyperlipidemic agents . . . . .	123,994	8,952	5.5	0.2
Antidepressants . . . . .	109,001	6,297	4.8	0.2
Anxiolytics, sedatives, and hypnotics . . . . .	85,659	5,760	3.8	0.2
Antidiabetic agents . . . . .	82,140	6,202	3.6	0.2
Beta-adrenergic blocking agents . . . . .	77,776	6,172	3.5	0.2
Antiplatelet agents . . . . .	71,193	6,056	3.2	0.2
Bronchodilators . . . . .	68,049	5,993	3.0	0.2
Anticonvulsants . . . . .	67,436	4,780	3.0	0.1
Dermatological agents . . . . .	65,678	4,610	2.9	0.2
Proton pump inhibitors . . . . .	65,092	4,458	2.9	0.1
Diuretics . . . . .	63,571	5,006	2.8	0.1
Angiotensin converting enzyme inhibitors . . . . .	60,847	4,057	2.7	0.1
Antihistamines . . . . .	59,620	5,118	2.6	0.2
Viral vaccines . . . . .	54,691	6,002	2.4	0.3
Ophthalmic preparations . . . . .	47,056	7,930	2.1	0.3
Adrenal cortical steroids . . . . .	44,343	3,464	2.0	0.1
Sex hormones . . . . .	40,652	2,822	1.8	0.1
Nasal preparations . . . . .	39,813	4,427	1.8	0.2
Antiemetic, antivertigo agents . . . . .	37,241	2,699	1.7	0.1

<sup>1</sup>Based on Multum Lexicon second-level therapeutic drug category (see <http://www.multum.com/lexicon.htm>).<sup>2</sup>Drug mentions are based on an estimated 2,250,489 drugs provided or prescribed at visits in 2007.<sup>3</sup>Includes narcotic and nonnarcotic analgesics and nonsteroidal anti-inflammatory drugs.



**Table 25. Number, percent distribution, and therapeutic drug category for the 20 drug names most frequently mentioned at office visits, by new or continued drug status, with corresponding standard errors: United States, 2007**

	Number of mentions (standard error) in thousands	Percent distribution (standard error of percent)	Percent distribution (standard error of percent)				Therapeutic drug category <sup>2</sup>
			Total	New	Continued	Unknown	
All drug mentions	2,250,489 (115,505)	100.0	100.0	27.1 (1.1)	68.5 (1.2)	4.4 (0.5)	...
Aspirin	55,061 (5,053)	2.4 (0.1)	100.0	5.1 (0.7)	91.0 (1.4)	3.9 (0.9)	Analgesics or antiplatelet agents
Atorvastatin	39,298 (3,243)	1.7 (0.1)	100.0	6.0 (1.2)	89.9 (1.9)	*4.0 (1.4)	Antihyperlipidemic agents
Metoprolol	37,566 (3,330)	1.7 (0.1)	100.0	7.5 (1.3)	89.1 (1.6)	3.4 (1.0)	Beta-adrenergic blocking agents
Lisinopril	37,266 (2,635)	1.7 (0.1)	100.0	9.1 (1.6)	88.0 (1.6)	2.9 (0.7)	Angiotensin converting enzyme inhibitors
Levothyroxine	33,657 (2,525)	1.5 (0.1)	100.0	4.8 (1.1)	91.9 (1.4)	3.2 (0.8)	Thyroid drugs
Albuterol	32,197 (2,730)	1.4 (0.1)	100.0	22.4 (2.3)	74.0 (2.3)	3.6 (0.8)	Bronchodilators
Ibuprofen	28,397 (2,668)	1.3 (0.1)	100.0	48.7 (2.8)	46.5 (2.9)	4.9 (1.4)	Analgesics
Furosemide	27,019 (2,381)	1.2 (0.1)	100.0	8.3 (1.4)	89.8 (1.5)	*1.9 (0.7)	Diuretics
Metformin	26,909 (2,184)	1.2 (0.1)	100.0	9.1 (1.7)	87.7 (2.3)	*3.2 (1.3)	Antidiabetic agents
Acetaminophen-hydrocodone	25,506 (2,585)	1.1 (0.1)	100.0	29.2 (2.8)	68.0 (2.9)	2.8 (0.8)	Analgesics
Simvastatin	24,501 (2,123)	1.1 (0.1)	100.0	6.1 (1.1)	89.9 (1.9)	*4.0 (1.3)	Antihyperlipidemic agents
Hydrochlorothiazide	24,197 (2,013)	1.1 (0.1)	100.0	8.5 (1.7)	87.8 (1.8)	3.7 (0.9)	Diuretics
Acetaminophen	21,749 (2,321)	1.0 (0.1)	100.0	49.2 (4.2)	46.6 (4.2)	*4.2 (1.5)	Analgesics
Amoxicillin	21,578 (2,242)	1.0 (0.1)	100.0	83.7 (1.9)	12.2 (1.7)	4.2 (1.0)	Penicillins
Atenolol	20,961 (1,714)	0.9 (0.1)	100.0	7.7 (1.5)	88.8 (2.0)	*3.5 (1.2)	Beta-adrenergic blocking agents
Warfarin	19,119 (1,950)	0.8 (0.1)	100.0	3.5 (0.9)	92.4 (1.3)	4.0 (1.0)	Anticoagulants
Azithromycin	18,909 (1,772)	0.8 (0.1)	100.0	85.9 (2.3)	9.0 (1.8)	5.1 (1.5)	Macrolide derivatives
Esomeprazole	18,352 (1,555)	0.8 (0.1)	100.0	12.2 (2.1)	84.0 (2.6)	*3.9 (1.4)	Proton pump inhibitors
Montelukast	17,906 (2,286)	0.8 (0.1)	100.0	24.7 (2.8)	73.0 (3.1)	*2.3 (0.9)	Leukotriene modifiers
Alprazolam	17,563 (2,087)	0.8 (0.1)	100.0	13.6 (2.5)	83.6 (2.5)	2.8 (0.8)	Anxiolytics, sedatives, and hypnotics
Other	1,702,779 (84,990)	75.7 (0.4)	100.0	29.6 (1.2)	65.7 (1.3)	4.7 (0.5)	Other

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

<sup>1</sup>Based on Multum Lexicon terminology, drug name reflects the active ingredients of a drug provided or prescribed.

<sup>2</sup>Based on Multum Lexicon second-level therapeutic drug category (see <http://www.multum.com/lexicon.htm>).

**Table 26. Number and percentage of office visits with corresponding standard errors, by providers seen: United States, 2007**

Type of provider	Number of visits in thousands	Standard error in thousands	Percent of visits	Standard error of percent
All visits	994,321	39,975	...	...
Physician	952,978	39,224	95.8	0.6
R.N. <sup>2</sup> or L.P.N. <sup>3</sup>	303,037	28,359	30.5	2.5
Physician assistant	40,917	7,557	4.1	0.7
Nurse practitioner or midwife	14,219	2,663	1.4	0.3
Mental health provider	*2,234	743	*0.2	0.1
Other provider	116,749	12,022	11.7	1.2

... Category not applicable.

\* Figure does not meet standards of reliability or precision.

<sup>1</sup>Combined total of individual providers exceeds "all visits" because more than one type of provider may be reported per visit.

<sup>2</sup>R.N. is registered nurse.

<sup>3</sup>L.P.N. is licensed practical nurse.

**Table 27. Number and percentage of office visits with corresponding standard errors, by visit disposition: United States, 2007**

Disposition	Number of visits in thousands	Standard error in thousands	Percent of visits	Standard error of percent
All visits	994,321	39,975	...	...
Return at specified time	671,974	28,180	67.6	1.2
Return if needed, P.R.N. <sup>2</sup>	249,978	15,932	25.1	1.1
Refer to other physician	73,772	5,857	7.4	0.5
No followup planned	55,597	6,433	5.6	0.6
Telephone followup planned	17,405	2,945	1.8	0.3
Admit to hospital	4,818	1,154	0.5	0.1
Refer to emergency department	1,636	367	0.2	0.0
Other disposition	10,371	2,629	1.0	0.3
Blank	14,624	3,432	1.5	0.3

... Category not applicable.

<sup>1</sup>Combined total of individual dispositions exceeds "all visits" because more than one may be reported per visit.

<sup>2</sup>P.R.N. is "as needed."

**Table 28. Characteristics of the 2007 National Ambulatory Medical Care Survey, physician respondents and nonrespondents**

Physician characteristic <sup>1</sup>	Number of sampled in-scope physicians <sup>2</sup>	Total sample percent distribution <sup>3</sup> (weighted)	Responding physician percent distribution <sup>4</sup> (weighted)	Nonresponding physician percent distribution <sup>5</sup> (weighted)	Combined physician weighted response rate <sup>6</sup>
All office-based physicians . . . . .	2,399	100.0	100.0	100.0	0.641
Age					
Under 50 years . . . . .	1,097	45.9	45.5	46.5	0.644
50 years and over . . . . .	1,302	54.1	54.5	53.5	0.638
Sex					
Male . . . . .	1,815	74.5	73.5	76.1	0.634
Female . . . . .	582	25.4	26.5	23.8	0.662
Unknown . . . . .	2	0.1	0.0	0.2	—
Region <sup>7</sup>					
Northeast . . . . .	527	21.2	17.7	26.7	0.529
Midwest . . . . .	526	21.8	22.7	20.3	0.678
South . . . . .	795	33.9	36.9	29.2	0.704
West . . . . .	551	23.1	22.7	23.8	0.616
Metropolitan status <sup>7,8</sup>					
MSA . . . . .	2,135	88.4	86.0	92.0	0.625
Non-MSA . . . . .	264	11.6	14.0	8.0	0.760
Type of doctor <sup>7</sup>					
Doctor of medicine . . . . .	2,079	91.9	90.8	93.5	0.635
Doctor of osteopathy . . . . .	154	5.1	4.7	5.9	0.611
Community health center physician . . . . .	166	3.0	4.5	0.6	0.840
Physician specialty <sup>9</sup>					
General or family practice . . . . .	399	18.0	19.5	15.7	0.685
Internal medicine . . . . .	165	13.4	12.9	14.3	0.635
Pediatrics . . . . .	179	10.1	10.9	8.7	0.681
General surgery . . . . .	122	4.0	3.9	4.3	0.639
Obstetrics and gynecology . . . . .	166	8.0	8.0	8.0	0.654
Orthopedic surgery . . . . .	115	5.1	5.2	5.0	0.617
Cardiovascular diseases . . . . .	155	4.2	4.2	4.1	0.620
Dermatology . . . . .	103	2.4	2.1	2.9	0.592
Urology . . . . .	113	2.2	2.3	1.9	0.696
Psychiatry . . . . .	172	6.0	5.1	7.4	0.548
Neurology . . . . .	167	2.3	2.3	2.3	0.654
Ophthalmology . . . . .	106	4.1	4.1	4.1	0.631
Otolaryngology . . . . .	111	2.0	1.9	2.1	0.604
Oncology . . . . .	128	1.9	1.8	2.0	0.606
All other specialties . . . . .	198	16.4	15.9	17.1	0.622
Specialty type <sup>7,10</sup>					
Primary care . . . . .	906	49.6	51.1	47.2	0.663
Surgical . . . . .	641	22.4	23.0	21.5	0.646
Medical . . . . .	852	28.0	25.9	31.3	0.598
Practice type <sup>7</sup>					
Solo . . . . .	548	23.8	21.7	27.1	0.593
Two physicians . . . . .	143	6.1	5.5	7.1	0.585
Group or HMO <sup>11</sup> . . . . .	1,130	49.0	51.4	45.3	0.662
Medical school or government . . . . .	31	1.2	1.5	0.7	0.786
Community health center . . . . .	166	3.0	4.5	0.6	0.840
Other . . . . .	35	1.3	1.4	1.2	0.656
Unclassified . . . . .	346	15.5	14.0	17.9	0.614
Annual visit volume <sup>7</sup>					
0–25th percentile . . . . .	728	27.2	32.4	19.1	0.739
26th–50th percentile . . . . .	591	24.6	22.1	28.5	0.611
51th–75th percentile . . . . .	541	23.9	20.9	28.6	0.540
76th–100th percentile . . . . .	539	24.2	24.6	23.7	0.660

— Quantity zero.

<sup>1</sup>Characteristic information is from a combination of sources: the master files of the American Medical Association, the American Osteopathic Association, the Health Resources and Services Administration (HRSA), and the NAMCS induction form.<sup>2</sup>In-scope physicians are those who verified that they were nonfederal and involved in direct patient care in an office-based setting or community health center (CHC), excluding the specialties of radiology, pathology, and anesthesiology.<sup>3</sup>Total physicians are those who were selected from (a) the master files of the American Medical Association, (b) the American Osteopathic Association, and (c) physicians practicing in federally

funded or look-alike CHCs. In-scope determination was also used for inclusion in the NAMCS.

<sup>4</sup>Responding physicians were those who were in-scope and agreed to participate in the NAMCS.

<sup>5</sup>Nonresponding physicians were those who were in-scope and refused to participate in the NAMCS.

<sup>6</sup>Values represent a combined response rate among physicians selected from the office-based sample, and the CHC sample. Numerator is the combined number of in-scope physicians from the physician and CHC samples who participated in the NAMCS or who did not see any patients during their sampled reporting week. Denominator is all in-scope sampled physicians selected from both the physician and CHC sample.

<sup>7</sup>Chi-square test of association is significant ( $p < 0.05$ ) between physician response and indicated physician characteristic.

<sup>8</sup>MSA is metropolitan statistical area.

<sup>9</sup>Physician specialty defined in the "Methods" section.

<sup>10</sup>Physician specialty type defined in the 2007 NAMCS Public-Use Data File Documentation (see [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/NAMCS/doc07.pdf](http://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NAMCS/doc07.pdf)).

<sup>11</sup>HMO health maintenance organization.

## Technical Notes

### Data source

The NAMCS data collection is authorized under Section 306 of the Public Health Service Act (Title 42 U.S. Code), 242k. Participation is voluntary. The U.S. Census Bureau was responsible for data collection. Data collected in NAMCS are consistent with the Privacy Rule of the Health Insurance Portability and Accountability Act (HIPAA). No personally identifying information, such as patient's name, address, or Social Security number, is collected in NAMCS. All information collected is held in the strictest confidence according to law [Section 308(d) of the Public Health Service Act (42, U.S. Code, 242m (d))] and the Confidential Information Protection and Statistical Efficiency Act (Title 5 of PL 107–347). Approval for the NAMCS protocol was renewed by the NCHS Research Ethics Review Board in December 2006. Waivers of the requirements to obtain informed consent of patients and patient authorization for release of patient medical record data by health care providers were granted.

The target universe of NAMCS is in-person visits made in the United States to the offices of nonfederally employed physicians who were classified by the American Medical Association (AMA) or the American Osteopathic Association (AOA) as “office-based, patient care.” Radiologists, anesthesiologists, and pathologists were excluded. Visits to private, nonhospital-based clinics and health maintenance organizations (HMOs) were within the scope of the survey, but those that occurred in federally operated facilities and hospital-based outpatient departments were not. Telephone contacts and visits made outside the physician's office were also excluded.

In order to improve the precision of CHC physician estimates, starting in 2006, a dual-sampling procedure was used to select CHC physicians and other providers. First, the “traditional” NAMCS sample of physicians was selected using established methods and

sources. Second, a sample of 104 CHCs was selected, and within each center, up to three physicians, physician assistants, nurse midwives, or nurse practitioners scheduled to see patients during the sample week were selected for survey participation. After being selected, CHC providers followed the sampling procedure used by “traditional” NAMCS physicians in selecting patient visits. CHCs were sampled from a list of Federally Qualified Health Centers provided by the Health Resources and Services Administration and a list of Urban Indian Health clinics provided by the Indian Health Service. To ensure that CHC physicians were included only once, physicians in the “traditional” NAMCS sample who saw patients only in CHCs were omitted from the physician and visit files. Physicians in the “traditional” NAMCS sample who saw patients in both CHC and non-CHC office settings were included in the physician files, but only visits to non-CHC office settings were included in the visit files. For the purpose of this report, physicians are the only providers included from CHCs (i.e., sampled physician assistants, nurse midwives, or nurse practitioners were excluded, but estimates of these providers will be presented in a future report).

### Data processing and coding

Data processing and medical coding were performed by SRA International, Inc., Durham, North Carolina. As part of the quality assurance procedure, a 10 percent quality control sample of survey records was independently keyed and coded. Coding error rates ranged between 0 and 1 percent for various survey items.

Verbatim medical data collected in the survey were coded as follows:

- Patient's reason for visit—The patient's main complaint, symptom, or reason for visiting the physician's office was coded according to *A Reason for Visit Classification for Ambulatory Care* (RVC) (9). Up to three reasons could be coded per visit (Figure I).

- Physician's diagnosis—Physicians or their staff were asked to record the primary diagnosis, and up to two additional diagnoses, associated with the patient's reason for the current visit. The text of the diagnoses was then coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) (10).
- Vital signs—Physicians or their staff were asked to record the initial blood pressure if blood pressure was recorded more than once.
- Medications including immunizations—Physicians or their staff were instructed to record all new or continued medications ordered, supplied, or administered at the visit. This included prescription and nonprescription preparations, immunizations, desensitizing agents, and anesthetics. In this survey, recorded medications are referred to as drug mentions and are coded according to a classification system developed at NCHS (11). As used in NAMCS, the term “drug” is interchangeable with the term “medication.” The term “prescribing” is used broadly to mean ordering or providing any medication, whether prescription or over-the-counter. Visits with one or more drug mentions are termed “drug visits” in NAMCS. Medications, including immunizations, were coded using the Multum Lexicon, a proprietary drug classification system used by NCHS beginning with the 2006 ambulatory care reports. Therapeutic classification of drugs is based on the Multum Lexicon's second-level therapeutic categories, including any drug mentions coded at third-level therapeutic categories (Available from: <http://www.multum.com/Lexicon.htm>). Drugs may have more than one therapeutic application. Although Multum allows up to five therapeutic categories per drug, in this report a maximum of four therapeutic categories for each drug is examined because the number of drugs with five therapeutic categories is small. Generic ingredients of drug mentions

were coded according to the drug\_id nomenclature included in Multum.

## Physician specialty groups

This report classifies physician specialties into two general schemes: “physician specialty” and “specialty type.” NAMCS groups physicians into 16 strata, or specialty groups, for sampling purposes. The “physician specialty” classification includes the same strata as used for sampling purposes with the exception of the doctors of osteopathy stratum, which is combined with doctors of medicine. The “physician specialty” classification therefore has 15 categories. The “physician specialty” classification is created using updated information from the AMA, as well as information provided by sampled physicians. On the other hand, the “specialty type” classification divides AMA specialties into three major categories (primary care specialties, surgical specialties, and medical specialties) and puts more emphasis on specialization type. Information on specific physician specialties under the 15 categories and the specific physicians specialties included in each of the three specialty types can be found at [ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/NAMCS/doc07.pdf](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NAMCS/doc07.pdf). It should be noted that “primary care specialist” differs from “primary care physician or provider (PCP),” which is reported by the survey respondent based on the question, “Are you the patient’s primary care physician?” (Figure I).

## Estimation

Because of the complex multistage design of NAMCS, a sample weight is computed for each sampled visit that takes all stages of design into account. The survey data are inflated or weighted to produce unbiased national annual estimates. The visit weight includes four basic components: inflation by reciprocals of selection probabilities, adjustment for nonresponse, population ratio adjustments, and weight smoothing. Starting in 2004, changes

were made to the nonresponse adjustment factor to account for the seasonality of the reporting period.

Prior to 2003, the nonresponse adjustment accounted only for nonresponse by physician specialty, geographic region, and MSA status. In recent years, the nonresponse adjustment was modified to account for nonresponse from physicians by weekly visit volume, and for the variability in number of weeks participating physicians saw patients during the year (12).

The standard error is a measure primarily of the sampling variability that occurs by chance because only a sample rather than an entire universe is surveyed. Estimates of the sampling variability for this report were calculated using Taylor approximations in SUDAAN, which take into account the complex sample design of NAMCS. A description of the software and its approach has been published (13). The standard errors of statistics presented in this report are included in each of the tables.

## Nonsampling errors

As in any survey, results are subject to both sampling and nonsampling errors. Nonsampling errors include reporting and processing errors as well as biases due to nonresponse and incomplete response. The magnitude of the nonsampling errors cannot be computed. However, these errors were kept to a minimum by procedures built into the operation of the survey. To eliminate ambiguities and to encourage uniform reporting, attention was given to the phrasing of items, terms, and definitions. Also, pretesting of most data items and survey procedures was performed. Quality control procedures and consistency and edit checks reduced errors in data coding and processing.

The weighted response rate (by the inverse of the probability of selection) for the 2007 NAMCS was 64.1 percent (64.7 percent unweighted). Table 28 presents weighted characteristics of NAMCS respondents and nonrespondents, along with weighted response rates. Physician level of

responding was related to the following physician characteristics: region, metropolitan status, type of doctor, specialty type, practice type, and annual visit volume. Since NAMCS uses a nonresponse adjustment factor that takes annual visit volume, specialty, geographic region, and MSA into account, the effect of differential response is minimized in the visit estimates.

## Nonresponse rates and imputation

Item nonresponse rates in NAMCS are generally low (5 percent or less). However, levels of nonresponse can vary considerably in the survey. Most nonresponse occurs when the needed information is not available in the medical record or is unknown to the person filling out the survey instrument. Nonresponse can also result when the information is available, but survey procedures are not followed and the item is left blank. In this report, some tables include a combined entry of unknown or blank to display missing data. For items where combined item nonresponse is between 30 and 50 percent, percent distributions are not discussed in the text. However, the information is shown in the tables. These data should be interpreted with caution. For items with nonresponse greater than 50 percent, data are not presented. If nonresponse is random, the observed distribution for the reported item (i.e., excluding cases for which the information is unknown) would be close to the true distribution. However, if nonresponse is not random, the observed distribution could vary significantly from the actual distribution. Researchers need to decide how best to treat items with high levels of missing responses.

Weighted item nonresponse rates (i.e., if the item was left blank or the unknown box was marked) were 5.0 percent or less for all data items with the following exceptions: whether the physician was the patient’s primary care physician (6.8 percent), among non-PCP visits and visits with unknown PCP status, whether the patient had been referred for current visit (20.1 percent),

time spent with provider (26.2 percent), tobacco use (37.1 percent), status of patient enrollment in a disease management program (37.5 percent), and specific cancer stage for visits where cancer was an indicated medical condition (57.6 percent). Item nonresponse could not be determined for the following data items: height, weight, temperature, and blood pressure.

For some items, missing values were imputed by randomly assigning a value from a PRF with similar characteristics. Imputations were performed for the following variables: birth year (2.0 percent), sex (0.9 percent), race (31.5 percent), ethnicity (34.7 percent); whether the patient had been seen in this practice before (2.4 percent) and, if so, how many visits were made in the last 12 months (11.1 percent of visits by established patients); and time spent with physician at this visit (27.3 percent of visits where a physician was seen).

Imputation for birth year, sex, seen before, and number of past visits was based on physician specialty, geographic region, and three-digit ICD-9-CM code for primary diagnosis. A new method was used to impute race and ethnicity. Race and ethnicity assignments were based, where possible, on diagnosis and patient's locality (ZIP Code or state/county of residence). A hot deck approach (i.e., filling in missing values on incomplete records using values from similar but complete records of the same dataset) was employed rather than the previously used cold deck strategy (i.e., filling in missing values on incomplete records using values from similar but complete records of the dataset from the previous year), except in cases where a matching record could not be obtained from the current data. When race or ethnicity data could not be assigned using patient locality, the new method attempted to impute within the same physician's office wherever possible. Failing that, imputation was based on physician specialty and three-digit ICD-9-CM code for primary diagnosis, and, as a last resort, on a randomly selected record. An internal NCHS evaluation study found that this approach was more likely to correctly

identify patients' race and ethnicity than did the previous method. Further refinements to the imputation strategy are being studied for future use. Because of the high percentages of missing data for race and ethnicity in 2007, readers are advised to treat these data with caution. In the tables, both imputed and nonimputed race and ethnicity data are presented.

## Use of tables

The tables present only the first-listed reason for visit and first-listed diagnosis. It should be noted that estimates differing in ranked order may not be significantly different from each other. For items related to diagnostic and screening services, procedures, providers seen, and disposition, physician office staff was asked to check all of the applicable categories for each item. Therefore, multiple responses could be coded for each visit.

In this report, estimates are not presented if they are based on fewer than 30 cases in the sample data; only an asterisk (\*) appears in the tables. The relative standard error (RSE) of an estimate is obtained by dividing the standard error by the estimate itself. The result is then expressed as a percentage of the estimate. Estimates based on 30 or more cases include an asterisk if the RSE of the estimate exceeds 30 percent.

In the tables, estimates of office visits have been rounded to the nearest thousand. Consequently, estimates will not always add to totals. Rates and percentages were calculated from original unrounded figures and do not necessarily agree with figures calculated from rounded data.

## Population estimates

Several of the tables in this report present rates of office visits per population. The population figures used in calculating these rates are based on the U.S. Census Bureau's monthly postcensal estimates of the civilian noninstitutional population of the United States as of July 1, 2007. These population estimates are based on postcensal estimates from the 2000

census and are available from the Census Bureau. Estimates presented in the tables for specific race categories reflect visits where only a single race was reported. Denominators used in computing estimates of visit rates by expected source of payment were obtained from the 2007 National Health Interview Survey (NHIS). Individuals reporting multiple insurance categories in NHIS were counted in each category they reported, except for Medicaid and SCHIP, which were combined into a single category.

Form Approved: OMB No. 0920-0234

FORM <b>NAMCS-30</b> <small>(9-28-2008)</small>		U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU ACTING AS DATA COLLECTION AGENT FOR THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Centers for Disease Control and Prevention National Center for Health Statistics		PATIENT RECORD NO.: _____
<b>NATIONAL AMBULATORY MEDICAL CARE SURVEY                  2009 PATIENT RECORD</b>		PATIENT'S NAME: _____		
<b>Assurance of confidentiality</b> – All information which would permit identification of an individual, a practice, or an establishment will be held confidential, will be used only by NCHS staff, contractors, and agents only when required and with necessary controls, and will not be disclosed or released to other persons without the consent of the individual or establishment in accordance with section 300(a) of the Public Health Service Act (42 USC 242a) and the Confidential Information Protection and Statistical Efficiency Act (PL-107-347).				
<i>(Provider: Detach and keep upper portion)</i>				
Please keep (X) marks inside of boxes → <input checked="" type="checkbox"/> Correct <input checked="" type="checkbox"/> Incorrect				

1. PATIENT INFORMATION			2. INJURY/POISONING/ADVERSE EFFECT	
<b>a. Date of visit</b> Month Day Year _____	<b>d. Sex</b> <input type="checkbox"/> Female <input type="checkbox"/> Male	<b>g. Expected source(s) of payment for this visit</b> – Mark (X) all that apply: <input type="checkbox"/> Private insurance <input type="checkbox"/> Medicare <input type="checkbox"/> Medicaid/SCHIP <input type="checkbox"/> Worker's compensation <input type="checkbox"/> Self-pay <input type="checkbox"/> No charge/Charity <input type="checkbox"/> Other <input type="checkbox"/> Unknown	<b>Is this visit related to any of the following?</b> <input type="checkbox"/> Unintentional injury/poisoning <input type="checkbox"/> Intentional injury/poisoning <input type="checkbox"/> Injury/poisoning – unknown intent <input type="checkbox"/> Adverse effect of medical/surgical care or adverse effect of medicinal drug <input type="checkbox"/> None of the above	
<b>b. ZIP Code</b> _____	<b>e. Ethnicity</b> <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Not Hispanic or Latino	<b>h. Tobacco use</b> <input type="checkbox"/> Not current <input type="checkbox"/> Unknown <input type="checkbox"/> Current		
<b>c. Date of birth</b> Month Day Year _____	<b>f. Race</b> – Mark (X) one or more: <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> Asian <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> American Indian or Alaska Native			
3. REASON FOR VISIT		4. CONTINUITY OF CARE		
<b>Patient's complaint(s), symptom(s), or other reason(s) for this visit</b> – Use patient's own words. (1) Most important: _____ (2) Other: _____ (3) Other: _____	<b>a. Are you the patient's primary care physician/provider?</b> <input type="checkbox"/> Yes – SKIP to item 4b. <input type="checkbox"/> No <input type="checkbox"/> Unknown <b>Was patient referred for this visit?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<b>b. Has the patient been seen in your practice before?</b> <input type="checkbox"/> Yes, established patient – <b>How many past visits in the last 12 months?</b> Exclude this visit. _____ Visits <input type="checkbox"/> Unknown <input type="checkbox"/> No, new patient	<b>c. Major reason for this visit</b> <input type="checkbox"/> New problem (<3 mos. onset) <input type="checkbox"/> Chronic problem, routine <input type="checkbox"/> Chronic problem, flare-up <input type="checkbox"/> Pre/Post surgery <input type="checkbox"/> Preventive care (e.g., routine prenatal, well-baby, screening, insurance, general exams)	
5. PROVIDER'S DIAGNOSIS FOR THIS VISIT				
<b>a. As specifically as possible, list diagnoses related to this visit including chronic conditions.</b> (1) Primary diagnosis: _____ (2) Other: _____ (3) Other: _____	<b>b. Regardless of the diagnoses written in 5a, does the patient now have</b> – Mark (X) all that apply: <input type="checkbox"/> Arthritis <input type="checkbox"/> COPD <input type="checkbox"/> Obesity <input type="checkbox"/> Asthma <input type="checkbox"/> Depression <input type="checkbox"/> Osteoporosis <input type="checkbox"/> Cancer <input type="checkbox"/> Diabetes <input type="checkbox"/> None of the above <input type="checkbox"/> Cardiovascular disease <input type="checkbox"/> Hyperlipidemia <input type="checkbox"/> Chronic renal failure <input type="checkbox"/> Hypertension <input type="checkbox"/> Congestive heart failure <input type="checkbox"/> Ischemic heart disease			
6. VITAL SIGNS		7. DIAGNOSTIC/SCREENING SERVICES		
(1) Height: _____ ft _____ in OR _____ cm (2) Weight: _____ lb _____ oz OR _____ kg _____ gm (3) Temperature: _____ °C / _____ °F (4) Blood pressure: _____ Systolic / _____ Diastolic	Mark (X) all <b>ordered</b> or <b>provided</b> at this visit. <input type="checkbox"/> NONE <b>Examinations:</b> <input type="checkbox"/> Breast <input type="checkbox"/> Foot <input type="checkbox"/> Pelvic <input type="checkbox"/> Rectal <input type="checkbox"/> Retinal <input type="checkbox"/> Skin <input type="checkbox"/> Depression screening <b>Imaging:</b> <input type="checkbox"/> X-ray <input type="checkbox"/> Bone mineral density <input type="checkbox"/> CT scan <input type="checkbox"/> Echocardiogram <input type="checkbox"/> Other ultrasound	<b>Other tests:</b> <input type="checkbox"/> Biopsy – Specify site _____ <input type="checkbox"/> Chlamydia test <input type="checkbox"/> EKG/ECG <input type="checkbox"/> HIV test <input type="checkbox"/> HPV DNA test <input type="checkbox"/> Pap test – conventional <input type="checkbox"/> Pap test – liquid-based <input type="checkbox"/> Pap test – unspecified <input type="checkbox"/> Pregnancy test <input type="checkbox"/> Urinalysis (UA) <input type="checkbox"/> Other exam/test/service – Specify _____		
8. HEALTH EDUCATION		9. NON-MEDICATION TREATMENT		
Mark (X) all <b>ordered</b> or <b>provided</b> at this visit. <input type="checkbox"/> NONE <input type="checkbox"/> Asthma education <input type="checkbox"/> Diet/Nutrition <input type="checkbox"/> Exercise <input type="checkbox"/> Family planning/Contraception <input type="checkbox"/> Growth/Development <input type="checkbox"/> Injury prevention <input type="checkbox"/> Stress management <input type="checkbox"/> Tobacco use/Exposure <input type="checkbox"/> Weight reduction <input type="checkbox"/> Other	Mark (X) all <b>ordered</b> or <b>provided</b> at this visit. <input type="checkbox"/> NONE <input type="checkbox"/> Complementary alternative medicine (CAM) <input type="checkbox"/> Durable medical equipment <input type="checkbox"/> Home health care <input type="checkbox"/> Physical therapy <input type="checkbox"/> Speech/Occupational therapy <input type="checkbox"/> Psychotherapy <input type="checkbox"/> Other mental health counseling <input type="checkbox"/> Excision of tissue <input type="checkbox"/> Wound care <input type="checkbox"/> Cast <input type="checkbox"/> Splint or wrap <b>Procedures:</b> <input type="checkbox"/> Other non-surgical procedures – Specify _____ <input type="checkbox"/> Other surgical procedures – Specify _____			
10. MEDICATIONS & IMMUNIZATIONS		11. PROVIDERS		12. VISIT DISPOSITION
<input type="checkbox"/> NONE Include Rx and OTC drugs, immunizations, allergy shots, oxygen, anesthetics, chemotherapy, and dietary supplements that were ordered, supplied, administered or continued during this visit.		Mark (X) all providers seen at this visit. <input type="checkbox"/> Physician <input type="checkbox"/> Physician assistant <input type="checkbox"/> Nurse practitioner/Midwife <input type="checkbox"/> RN/LPN <input type="checkbox"/> Mental health provider <input type="checkbox"/> Other		Mark (X) all that apply: <input type="checkbox"/> No show/Left without being seen <input type="checkbox"/> Refer to other physician <input type="checkbox"/> Return at specified time <input type="checkbox"/> Refer to ER/Admit to hospital <input type="checkbox"/> Other
(1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____ (8) _____		(1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____ (8) _____		<b>13. TIME SPENT WITH PROVIDER</b> Minutes _____ Enter zero if no provider seen

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NAMCS-30

Figure I. National Ambulatory Medical Care Survey 2007 Patient Record form

**Acknowledgments**

This report was prepared in the Division of Health Care Statistics. The report was edited by Gail V. Johnson and typeset by Annette F. Holman, and the figures were produced by Odell Eldridge of the Office of Information Services, Information Design and Publishing Staff.

**Suggested citation**

Hsiao CJ, Cherry DK, Beatty PC, Rechtsteiner EA. National Ambulatory Medical Care Survey: 2007 summary. National health statistics reports; no 27. Hyattsville, MD: National Center for Health Statistics. 2010.

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DHHS Publication No. (PHS) 2011-1250  
CS214464  
T37834 (11/2010)