

## National Ambulatory Medical Care Survey: 2003 Summary

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### Abstract

**Objective**—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. Selected trends in office visits from 1993 through 2003 are presented.

**Methods**—The data presented in this report were collected from the 2003 National Ambulatory Medical Care Survey (NAMCS). NAMCS is part of the ambulatory care component of the National Health Care Survey that measures health care utilization by various types of providers. NAMCS is a national probability sample survey of visits to office-based physicians in the United States. Sample data are weighted to produce annual national estimates using an estimator that uses a revised nonresponse adjustment.

**Results**—During 2003, an estimated 906.0 million visits were made to physician offices in the United States, an overall rate of 317.3 visits per 100 persons. The visit rate to physician offices in metropolitan statistical areas (MSAs) (334.7 visits per 100 persons) was significantly larger than the rate in non-MSAs (229.3 visits per 100 persons). Females had a higher visit rate compared with males, and white persons had higher rates than black or African-American persons. Overall, 59.4 percent of visits were to physicians in the specialties of general and family practice, internal medicine, pediatrics, and obstetrics and gynecology. Primary care specialists provided 87.8 percent of all preventive care visits. New patients, representing 11.6 percent of visits in 2003, have decreased 26 percent since 1993 (15.6 percent). Utilization rates were highest for Medicare enrollees (585.0 visits per 100 persons) and lowest for patients without insurance (106.8 visits per 100 persons). The percent of visits relying on Medicaid or the State Children's Health Insurance Program increased by 42% between 2001 and 2003. Essential hypertension, acute upper respiratory infection, arthropathies, and diabetes mellitus were the leading illness-related primary diagnoses. The percent of visits made by patients with high blood pressure readings was highest among those 45–64 years of age. On average, 2.6 medications were ordered or provided at each office visit with any mention of a medication. Between 2001 and 2003, the estrogen and progestin drug mention rate for females 45 years and over declined by 45 percent.

**Keywords:** ambulatory care • physician office care • diagnoses • injury • medications • ICD-9-CM • primary care

### Introduction

The National Ambulatory Medical Care Survey (NAMCS), which began in 1973, collects data on the utilization of ambulatory medical care services provided by office-based physicians. It was conducted annually until 1981, again in 1985, and resumed an annual schedule in 1989. The NAMCS is complemented by the National Hospital Ambulatory Medical Care Survey (NHAMCS), which was inaugurated in 1992 to expand the scope of data collection to the medical services provided by hospital outpatient and emergency departments. Together, NAMCS and NHAMCS data provide an important tool for tracking ambulatory health care utilization in the United States. The NAMCS and NHAMCS are part of the National Health Care Survey, which measures health care utilization across various types of providers. More information about the National Health Care Survey can be found at the National Center for Health Statistics' (NCHS) Web site: [www.cdc.gov/nchs/nhcs.htm](http://www.cdc.gov/nchs/nhcs.htm). More information on the 2003 NHAMCS annual summaries (hospital outpatient and emergency departments) is available (1,2). A separate report combining NAMCS and NHAMCS data provides a comprehensive picture of ambulatory health care utilization (3). It shows that 81 percent of ambulatory



care delivered by non-Federal physicians is provided in office-based practices. Hospital ambulatory patients are known to differ from office patients in certain demographic and medical characteristics.

This report presents national annual estimates of physician office visits for 2003 using an estimator with a revised nonresponse adjustment. For analytic purposes, trend comparisons were analyzed separately for 1993–2001 using the original weight and for 2001–03 using the revised weight because visit estimates using the revised estimator are expected to be higher in magnitude than estimates using the previous estimator when there is greater nonresponse from physicians with greater volume. Physician practice, patient, and visit characteristics are described. Vital signs, including temperature and blood pressure readings, are reported for the first time. The upper limit on the number of medications recorded increased from six to eight and affected drug mention estimates.

## Data Highlights

### Physician office utilization

- In 2003, 906.0 million visits were made to physician offices, or about 317.3 visits per 100 persons. Of these visits, 58.9 percent were made to primary care specialists, 20.2 percent to surgical specialists, and the remaining 20.9 percent to medical specialists.
- The visit rate for infants under 12 months of age (662.8 per 100 persons) was similar to the visit rate for elderly persons aged 65 years and over (663.7 per 100 persons). From 1993 through 2001, the visit rate increased for all ages by 7%, from 282.0 to 300.4 per 100 persons (using original estimator). Between 2001 and 2003, the visit rates for all ages remained stable (using revised estimator).
- The visit rate for white persons (337.2 visits per 100 persons) was higher than for black or African-American persons (235.9 visits per 100 persons), but was similar to the visit rate for Asians (313.2 visits per 100 persons). The visit rate for

Hispanic or Latino persons (260.8 per 100 persons) was not statistically different from the rate for non-Hispanic persons (326.4 per 100 persons).

- Private insurance was the most frequent expected source of payment, accounting for 56.2 percent of all visits, and government sources (Medicare and Medicaid or State Children's Health Insurance Program (SCHIP) combined) accounted for 33.0 percent of visits. Utilization rates were highest for Medicare enrollees (585.0 per 100 persons) and lowest for uninsured patients (106.8 per 100 persons). Between 2001 and 2003, the percentage of visits relying on Medicaid or SCHIP increased by 42%.
- Of visits made to office-based physicians, 14.5 percent were referred for the current visit.
- There were 99.9 million injury visits to office-based physicians in 2003. The visit rate for injuries increased with patient age resulting in a rate of 63.8 per 100 persons for patients 75 years of age and over. White persons had a significantly greater rate of injury visits than did black or African-American persons or persons of other races (38.3, 22.5, and 19.1 visits per 100 persons, respectively).

### Services provided

- The rate of preventive care visits was higher for females than for males. There were no race differences observed. Twelve percent of preventive care visits were made to specialists. Diagnostic and screening services were ordered or provided at 85.7 percent of visits; counseling, education, or therapeutic services were ordered or provided at 41.5 percent of visits; and surgical procedures were ordered or provided at 7.0 percent of visits. An estimated 74.8 million ambulatory surgical procedures were ordered, scheduled, or performed during office visits. The patient's blood pressure was measured at 52.4 percent of visits. Among these visits, a higher percentage of those 45–64 years had high blood pressure measurements,

defined as either a systolic measurement  $\geq 140$  mmHg or diastolic measurement  $\geq 90$  mmHg.

- About 1.6 billion drugs were prescribed or provided at 65.7 percent of office visits. Multiple drugs were prescribed at 39.5 percent of visits. Drug mention rates varied by physician specialty (ranging from 46.4 for general surgery to 398.6 mentions per 100 visits for cardiovascular disease physicians).
- The therapeutic classes of nonsteroidal anti-inflammatory drugs (NSAIDs), antidepressants, and hyperlipidemia increased significantly between 1995 and 2001, but were stable between 2001 and 2003. Estrogen and progestin drug mentions for women 45 years and over declined by 45% between 2001 and 2003.
- A physician was seen during most office visits (95.5 percent). During 21.6 percent of the visits, a medical or nursing assistant was seen.

## Methods

The data presented in this report are from the 2003 NAMCS, a national probability sample survey conducted by the Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics. The survey was conducted from December 30, 2002, through December 28, 2003. The target universe of the NAMCS includes visits made in the United States to the offices of nonfederally employed physicians (excluding those in the specialties of anesthesiology, radiology, and pathology) who were classified by the American Medical Association (AMA) and the American Osteopathic Association (AOA) as "office-based, patient care." 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.

The NAMCS utilizes a multistage probability sample design involving

samples of 112 geographic primary sampling units (PSUs), physician practices within PSUs, and patient visits within physician practices. The PSUs are counties, groups of counties, county equivalents (such as parishes or independent cities), or towns and townships for some PSUs in New England. A sample of physicians was selected from the master files of the AMA and the AOA; 2,007 were in scope (eligible to participate in the survey). Sample physicians were asked to complete Patient Record forms (see [figure 1](#)) for a systematic random sample of approximately 30 office visits occurring during a randomly assigned 1-week reporting period. The weighted response rate for in-scope physicians was 66.3 percent, and a total of 25,288 Patient Record forms were completed. The “Technical Notes” provide more information on characteristics of nonresponding physicians.

Sample data are weighted to produce annual national estimates. Beginning in the 2003 data year, estimates presented use a weight that includes a revised adjustment for nonresponse. In previous years, the adjustment accounted for nonresponse by physician specialty, geographic region, and metropolitan statistical area status. The revised nonresponse adjustment additionally accounts for nonresponse from physicians by practice size as measured by number of weekly visits and for variability in number of weeks participating physicians saw patients during the year. Previously, these characteristics were assumed to be the same for physicians providing patient encounter information and those who do not. However, research conducted with 2003 data showed that physicians with larger visit volumes were more likely to refuse to participate. In addition, physicians who did not see patients during their assigned week saw patients fewer weeks annually than physicians who did see patients (4). The revised nonresponse adjustment uses information collected from physicians during the induction interview. Information on usual weekly visit volume has been collected since 2001 from sample physicians who refuse to provide encounter information.

For analytic purposes, trend comparisons were analyzed separately for 1993–2001 using the original weight and for 2001–03 using the revised weight because visit estimates using the revised estimator are expected to be higher in magnitude than estimates using the previous estimator when there is greater nonresponse from physicians with greater volume. For comparability in drug mention rate trends, drug mentions for 2003 were limited to the first six drug mentions. Original weights were used to analyze 1995–2001 drug mentions separately from 2001–03 trends using revised weights. Effects of the revised weight relative to the original weight on visit estimates are presented in several charts included in the report. The “Technical Notes” at the end of this report include an explanation of the revised estimator.

Because the estimates presented in this report are based on a sample rather than on the entire universe of office visits, they are subject to sampling variability. The “Technical Notes” at the end of this report include an explanation of the sampling errors with guidelines for judging the precision of the estimates and information on physician and item nonresponse. The standard errors are calculated using Taylor approximations in SUDAAN, which take into account the complex sample design of the NAMCS (5). Data on physician office utilization rates from 1993 through 2003 and selected trends by patient age and by drugs are also presented. A weighted least-squares regression analysis was used to determine the significance of trends at the 0.05 level.

The U.S. Census Bureau was responsible for data collection. Data processing operations and medical coding were performed by Constella Group, 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 0.1 and 1.1 percent for various survey items.

Several of the tables in this report present rates of physician office visits per population. The population figures used in calculating these rates are based

on Census Bureau monthly postcensal estimates of the civilian noninstitutional population of the United States as of July 1, 2003. These population estimates are based on postcensal estimates from Census 2000 and are available from the Census Bureau. For some rates, other denominators were used. See the “Technical Notes” for more detail on population figures and rate calculations. Estimates presented in the tables and figure for specific race categories reflect visits at which only a single race was reported. See “Technical Notes” for more detail on race estimates.

In April 2003, the Privacy Rule of the Health Insurance Portability and Accountability Act (HIPAA) was implemented to establish minimum Federal standards for safeguarding the privacy of individually identifiable health information. Therefore, the NAMCS implemented additional data collection procedures to help providers assure patient confidentiality. See “Technical Notes” for more information.

## Results

There were an estimated 906.0 million visits to office-based physicians in 2003, about 317.3 visits per 100 persons. Although the population of the United States has increased by 12 percent since 1993, the number of visits to physician offices increased by 23 percent between 1993 and 2001 (using original estimator) (6). Although the number of visits appeared to decline between 2001 and 2003 (from 951.2 to 906.0 million visits using revised estimator), the difference was not statistically significant. Selected characteristics of the encounter pertaining to the physician’s practice, the patient, and the visit are described.

*Office practice characteristics*—The distribution of office visits according to physician specialty is presented in [table 1](#) and [figure 1](#). About a quarter of all visits were to general and family practice physicians with an additional 34.8 percent of visits to physicians specializing in internal medicine, pediatrics, and obstetrics and gynecology. Of all the office visits made in 2003, about 6 out of every 10 were to

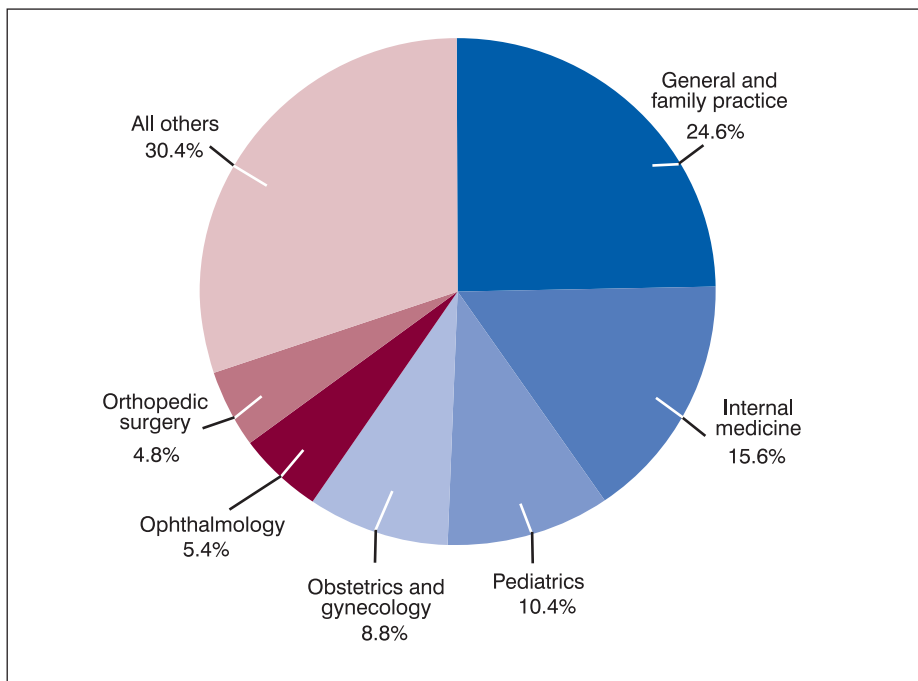


Figure 1. Percent distribution of office visits by physician specialty: United States, 2003

groups 15 years of age and over. Sex differences were also observed for visit rates between 15 and 64 years of age (figure 2).

#### Annual rate of visits to office-based physicians and corresponding standard errors (SE) by detailed age groups

- Under 1 year (662.8 per 100 persons, SE=75.6)
- 1–12 years (217.2 per 100 persons, SE=17.0)
- 13–21 years (117.7 per 100 persons, SE=12.0)
- 22–49 years (256.0 per 100 persons, SE=11.6)
- 50–64 years (398.5 per 100 persons, SE=18.3)
- 65 years and over (663.7 per 100 persons, SE=33.3)

physicians in primary care specialties (58.9 percent). For definitions of those specialties, see the “Technical Notes.” Throughout this report, visits to “primary care specialists or specialties” and “primary care visits” will be used interchangeably. Surgical and medical specialties accounted for 20.2 and 20.9 percent of visits, respectively. Table 1 also shows that doctors of osteopathy received 66.7 million visits during 2003, or 7.4 percent of all office visits. Visits to osteopathic physicians occurred at a rate of 23.3 visits per 100 persons. Visits according to geographic region and metropolitan status are also displayed in table 1. The visit rates were similar for each of the geographic regions, except the visit rate for the Northeast region (353.5 visits per 100 persons) was significantly higher than the rate in the Midwest (282.9 visits per 100 persons). The visit rate to physician offices located in MSAs (334.7 visits per 100 persons) was significantly higher than the rate observed in non-MSAs (229.3 visits per 100 persons).

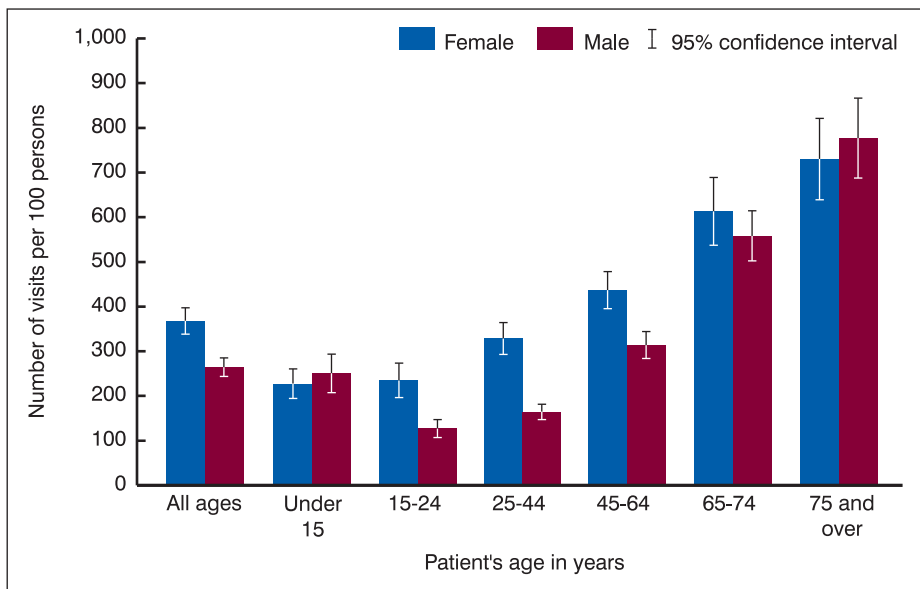
Additional information on the physician’s practice has been collected annually in the NAMCS through the Physician Induction Interview (PII) form. The PII is used to obtain basic information on the practice, to establish

the visit sampling rate, and to record the final disposition of the interview. In 2003, selected survey items on the physician and physician’s practice, including employment status, ownership, practice size, and office type, were weighted and edited to produce national estimates of office visits by these characteristics. These data demonstrate the type of practices to which visits are being made and are displayed in table 2. Overall, 86.9 percent of the visits were to physicians who owned the practice themselves or with a group of other physicians. The majority of office visits (61.3 percent) were made to physicians engaged in group practice (table 2). More than one-half of all visits were to physicians in practices with 2–9 physicians (51.1 percent) compared with 10.2 percent of visits to large practices with 10 or more physicians. Significantly more visits to group practices were characterized as single-specialty practices (44.0 percent) compared with multispecialty practices (17.5 percent).

*Patient characteristics*—Office visits by patient’s age, sex, race, and ethnicity are shown in table 3. As in previous years, females made the majority of office visits during 2003. The percentage of visits was higher for females compared with males in age

The text box shows annual visit rates for more detailed age groups (infants, children, adolescents and young adults, adults, middle-aged persons, and seniors). The visit rate to physician offices was highest for infants under 1 year of age and the elderly 65 years and over (662.8 and 663.7 visits per 100 persons, respectively). The visit rate declined from infancy to young adulthood (13–21 years of age), then rose as age increased.

Trends in visit rates by these detailed age groups are displayed in figure 3. The figure also shows the effects of the revised weight for 2001–03 estimates (dotted line) relative to the original weight (solid line). Although 2001 through 2003 visit rates derived using the revised weight were similar to rates derived using the original weight, the revised weight increased the magnitude of visit rates for most age groups. For comparability, all trends for the time period 1993–2001 using the original weight and for 2001–03 using the revised weight were tested separately. Between 1993 and 2001, the visit rate overall increased by 11 percent, driven by increasing visits by persons 22–49 years (up 4 percent),



**Figure 2. Annual rate of visits to office-based physicians by patient age and sex: United States, 2003**

50–64 years (up 18 percent), and 65 years and over (up 24 percent). The overall visit rate remained stable between 2001 and 2003, as well as visit rates for all age groups shown in [figure 3](#).

White persons represented 81 percent of the U.S. civilian noninstitutional population in 2003 and made 85.8 percent of all physician office visits. Overall, the visit rate for white persons (337.2 visits per 100 persons) was significantly higher than for black or African-American persons (235.9 visits per 100 persons) and was driven by significant differences for patients under 15 years and 15–24 years ([figure 4](#)). The visit rate for Asians (313.2 visits per 100 persons) was similar to the visit rate for white persons.

Historically, visit rates for black or African-American persons to physician offices tend to be lower than those for white persons. However, differences in visit rates by race can vary by type of health care setting utilized. Data from the 2003 NHAMCS indicate that the visit rate for black or African-American persons was higher than for white persons in both outpatient departments (58.0 visits per 100 black persons compared with 30.2 visits per 100 white persons) and emergency departments (69.3 visits per 100 black persons

compared with 37.2 visits per 100 white persons) (1,2).

This report also includes data on patient ethnicity (Hispanic or Latino, Not Hispanic or Latino) in several tables. In the past, NAMCS reports have omitted these data because of high item nonresponse rates. However, nonresponse for this item declined by 34% since 2001 (from 26.8 to 17.8 in 2003) and the relative proportion of the Hispanic population has been increasing (7). In 2003, Hispanic or Latino persons represented 13.8 percent of the population and made 11.3 percent of all physician office visits. Their visit rate (260.8 per 100 persons) was not statistically different from that of non-Hispanic or Latino persons (326.4 per 100 persons).

*Continuity of care*—Continuity of care is a goal of health care achieved through an interdisciplinary process involving patients, families, health care professionals, and providers in the management of a coordinated plan of care. It may involve multiple professionals from many different disciplines within multiple systems. The NAMCS collects information on aspects of care (e.g., whether the physician was the patient's primary care physician, whether the visit was a referral, and the number of visits within the past 12 months) that can help describe where

the visit fits within the continuum of care for the patient.

In 2003, 47.9 percent of physician office visits were to the patient's primary care physician or provider (PCP); 48.3 percent were to physicians other than the patient's PCP; and for 3.8 percent of visits, it was unknown if the physician was the PCP ([table 4](#)). Of the visits to physicians other than the patient's PCP, about one-third (30.0 percent) were referrals (calculated from [table 4](#)). Visits by new patients were more likely to be referrals than visits made by established patients (46.1 percent in contrast to 10.4 percent).

[Table 5](#) describes visits to PCPs and non-PCPs in terms of referral status and physician specialty. Among visits to non-PCPs, the specialties with visits most frequently referred by other physicians were neurology (52.4 percent), general surgery (50.7 percent), and otolaryngology (36.9 percent). More than half of visits to ophthalmologists, dermatologists, orthopedic surgeons, and psychiatrists were self referrals. It should be noted that not all visits to the patient's PCP were to physicians who specialize in primary care. Among visits to the patients' PCP, 6.0 percent were to physicians specializing in either surgical or medical specialties (data not shown).

[Table 6](#) shows the prior visit status, whether the care for the patient was shared by other physicians, and the episode of care. As shown, established patients accounted for 88.4 percent of office visits. Four-fifths of office visits (81.6 percent) were made by established patients who had at least one previous visit in the last 12 months, and 23.1 percent had six or more visits in the previous 12 months. New patients accounted for 11.6 percent of visits, representing a 26 percent decrease since 1993 (15.6 percent). Medical care specialists were more likely to share care with other physicians (32.9 percent) compared with primary care specialists (18.7 percent).

*Primary expected source of payment*—Private insurance was cited most frequently as the primary expected source of payment (56.2 percent of visits). Government sources combined

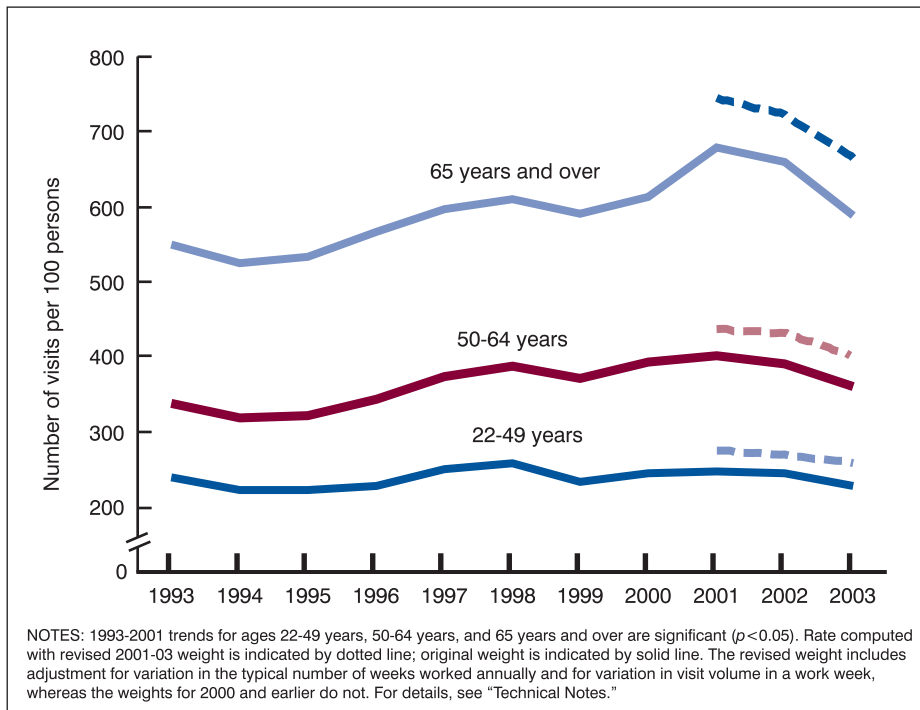
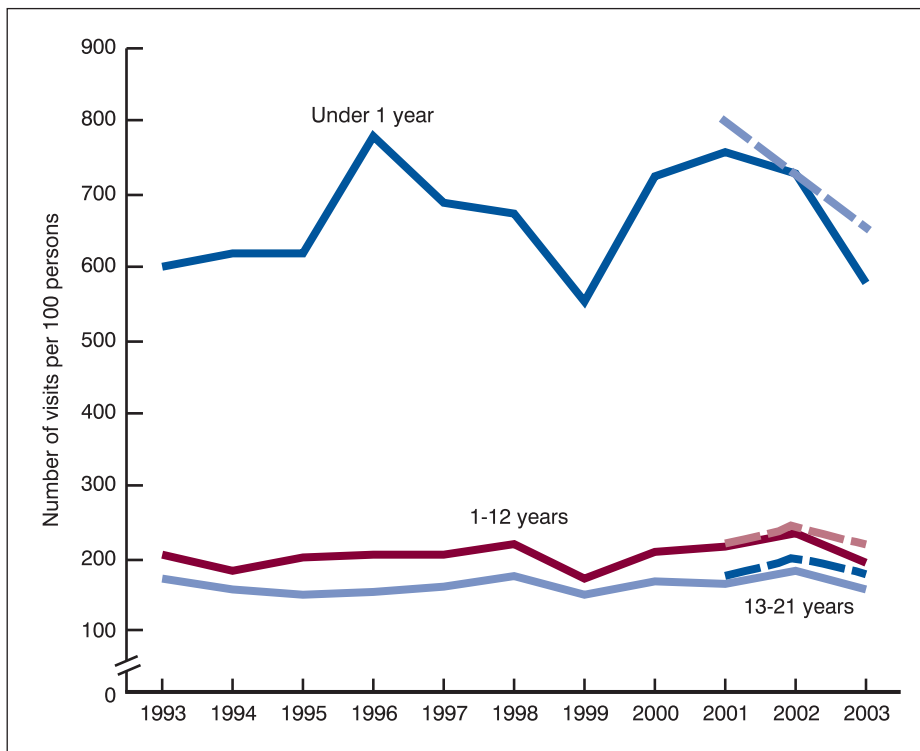


Figure 3. Trends in office visit rates by age: United States, 1993–2003

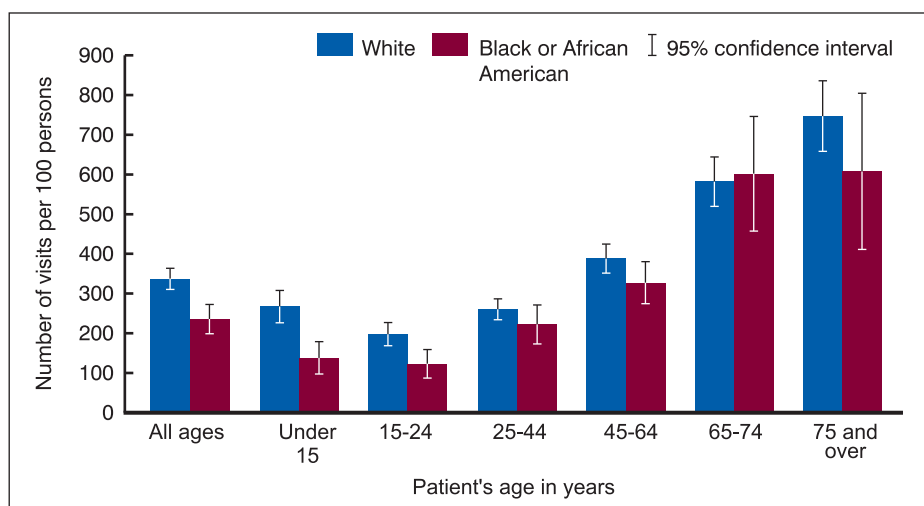
(Medicare, Medicaid, or State Children's Health Insurance Program (SCHIP)) accounted for 33.0 percent of office visits, most of which were Medicare (table 7).

From 2001 to 2003, office visits relying on Medicaid or SCHIP for payment increased by 42% (from 7.2 to 10.2 percent). Increased use of Medicaid or SCHIP between 2001 and 2003 may

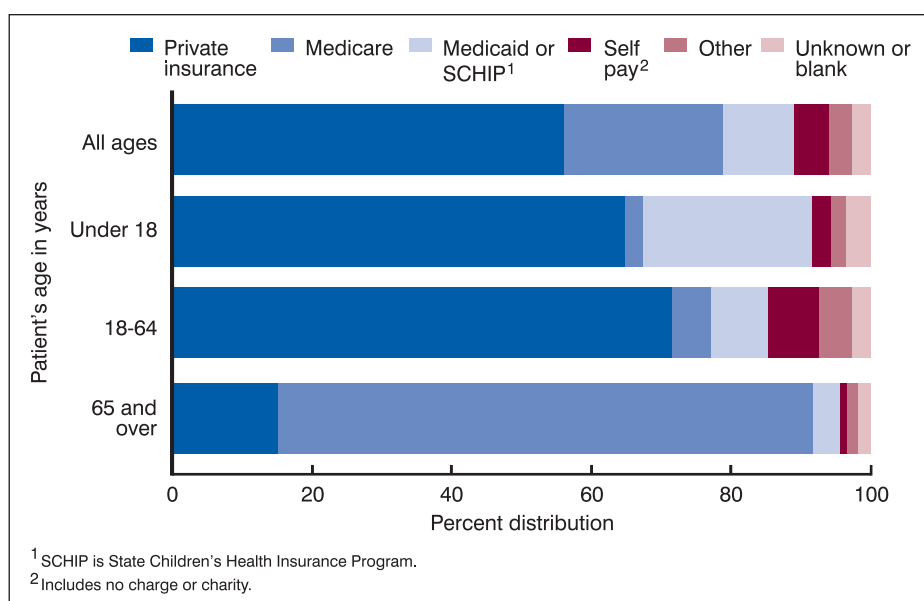
reflect increases in the number of beneficiaries of these programs. This increase may have been caused by the economic recession in 2001 and SCHIP program expansions (8,9).

As expected, source of payment varied by patient age (figure 5). Private insurance was the primary expected source of payment for a majority of visits by patients under age 65 years (69.9 percent), but represented only 15.2 percent of visits by persons age 65 years and over. Three-quarters of visits by elderly patients listed Medicare as the primary source of payment at office visits (76.4 percent). Although private insurance was the most frequent source of payment for office visits, the visit rate for Medicare patients (585.0 per 100 persons with Medicare) was higher than for Medicaid or SCHIP patients (306.5 per 100 persons with Medicaid or SCHIP), private insurance patients (264.2 per 100 persons with private insurance), and patients with no insurance, as measured by self pay, no charge, or charity (106.8 per 100 persons with no insurance) (data not shown).

*Patient's principal reason for visit*—The principal reason for visit is the main complaint, symptom, or reason listed for why the patient came to the physician's office. Up to three reasons for visit were coded according to *A Reason for Visit Classification for Ambulatory Care* (RVC) (10). The RVC is a classification scheme developed by NCHS that has been used for over 25 years to code patients' complaints or reasons for seeking care. It is divided into eight modules or groups of reasons as shown in table 8 and includes all the reasons for which patients see their physicians. This includes symptoms, followup for prior diagnoses, routine examinations and screening, treatment for conditions and operations, various therapies, and injuries. Also included are visits to receive test results and to fulfill third-party requirements for a physical examination, such as for employment or a driver's license. The symptoms module is further divided into symptoms that refer to specific body systems, such as digestive or respiratory. Each reason is assigned a three- or four-digit classification code (for example, S845-



**Figure 4. Annual rate of visits to office-based physicians by patient age and race: United States, 2003**



**Figure 5. Percent distribution of office visits by primary expected source of payment according to patient age: United States, 2003**

“Symptoms of skin mole” is further detailed to S845.1- “Change in size and color” and S845.2- “Bleeding mole”).

In 2003, one-half of all visits were made for reasons classified as symptoms. Some of the more prominent symptoms included respiratory (10.4 percent), musculoskeletal (10.0 percent), and symptoms referable to the eyes and ears (5.4 percent) (table 8).

The 20 most frequently mentioned three-digit principal reasons for visit, representing 42.2 percent of all visits, are shown in table 9. General medical examination was the most frequently

mentioned reason for visit at 6.6 percent of all office visits, and cough was the most frequently mentioned reason regarding an illness or injury (3.2 percent). All but three of the reasons for office visits in 2003 were listed in the 20 most frequently mentioned reasons in 2002, albeit in a different order. It should be noted that estimates differing in ranked order may not be significantly different from each other.

The major reason for this visit provides a better picture of the general nature of the office visit—whether for an acute problem; routine visit for a

chronic problem; visit for a flare-up of a chronic problem; pre- or post-surgery visit; or for preventive care, including routine prenatal examinations, general medical examinations, well-baby examinations, screening, and examinations for insurance purposes. The major reason for visit item differs from the principal reason for visit item in that the former represents the physician’s rather than the patient’s perspective of the major reason the patient sought care. Acute problems comprised 35.7 percent of the visits, and routine chronic problems accounted for 31.9 percent (table 10). Approximately 15.7 percent of all visits were for preventive care. A higher percentage of female visits were for preventive care compared with male visits. The percentage of visits for acute and preventive care declined with patient age, whereas the percentage of visits for chronic conditions increased with patient age.

Table 11 describes the frequency of preventive care visits by patient, visit, and physician characteristics. The female visit rate for preventive care was significantly higher than the rate for males (68.6 and 29.9 visits per 100 persons). This sex difference reflects, in part, the fact that preventive care includes prenatal examinations that usually include multiple visits within 1 year. In 2003, 16.2 percent of the preventive visits made by females included a visit made for normal pregnancy (any diagnosis coded V22) (data not shown). However, even after removing visits for normal pregnancy, females still had a higher visit rate (52.9 visits per 100 persons) compared with males (29.9 visits per 100 persons) (data not shown). There were no differences in visit rates for preventive care by sex among children under 15 years of age or among the elderly (65 years and over). Uninsured persons (as measured by self pay, no charge, and charity visits) had a much lower preventive care visit rate compared with persons with private or public health insurance, placing them at a disadvantage for disease prevention and early diagnosis.

*Primary diagnosis*—Physicians were asked to record the primary diagnosis or problem associated with the

patient's most important reason for the current visit and any other significant current diagnoses. Up to three diagnoses were coded according to the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD-9-CM) (11). **Table 12** shows office visits by the physician's primary diagnosis using the major disease categories specified in the ICD-9-CM. The supplementary classification, used for diagnoses that are not classifiable to injury or illness (for example, general medical examination, routine prenatal examination, and health supervision of an infant or child), accounted for 17.5 percent of all office visits. Diseases of the respiratory system (12.6 percent), diseases of the nervous system and sense organs (9.4 percent), and diseases of the musculoskeletal and connective tissue (8.1 percent) were also prominent categories on the list.

The 20 most frequently reported primary diagnoses for 2003, accounting for 41.8 percent of all physician office visits, are shown in **table 13**. The grouped categories in this table are also based on the ICD-9-CM. The leading illness diagnoses include essential hypertension, acute upper respiratory infections (excluding pharyngitis), arthropathies and related disorders, diabetes mellitus, and spinal disorders. **Table 14** presents the leading diagnosis by detailed age groups: infants (under 1 year)—acute upper respiratory infections (excluding pharyngitis); children (1–12 years)—otitis media and eustachian tube disorders; adolescents and young adults (13–21 years) and adults (22–49 years)—acute upper respiratory infections (excluding pharyngitis); middle-aged persons (50–64 years) and seniors (65 years and over)—essential hypertension (**table 14**).

*Injury-related visits*—Although there is a separate item or checkbox on the Patient Record form to indicate whether the visit was for an injury, poisoning, or adverse effect of medical treatment, sometimes an injury reason for visit is specified or an injury diagnosis is rendered without the injury item being checked. Therefore, the visit is counted as an injury visit and the injury checkbox is coded “Yes” if any of the three reasons for visit were in the

injury module or any of the three diagnoses were in the injury or poisoning chapter of the ICD-9-CM (11). This provides a better indicator that the visit involves an injury than using the reason for visit module, ICD-9-CM injury diagnosis, or the unedited injury item alone. A more detailed discussion is documented elsewhere (12).

There were an estimated 99.9 million injury- or poisoning-related office visits in 2003, representing 11.0 percent of all visits and yielding a rate of 35.0 visits per 100 persons (**table 15**). The injury-related visit rate increased significantly with patient age. The rate for patients 75 years and over (63.8 visits per 100 persons) was approximately double that of the three age groups under 45 years. The injury-related visit rate for females was not significantly different from the rate for males nor were there differences between the female and male rates when compared by each of the specific age groups. The overall injury-related visit rate for white persons (38.3 visits per 100 persons) was higher than the injury-related rate for black or African-American persons (22.5 visits per 100 persons) and persons of “other” race (19.1 visits per 100 persons). Small sample sizes preclude analysis by age within race groups other than white or black or African American. Therefore, they were combined into an “other” group. The injury rate for non-Hispanic or non-Latino persons (36.8 visits per 100 persons) exceeded the injury rate for Hispanic or Latino persons (23.5 per 100 visits). Half of the injury visits were to primary care physicians (50.5 percent) with no significant difference between white and black or African-American persons (data not shown). Further information on injury visits to physician offices is available on the public-use file, including E-codes and a narrative of the cause of injury.

Office visits by intent and mechanism of the first-listed external cause-of-injury codes (E-codes) are shown in **table 16**. Up to three external causes of injury were coded according to the “Supplementary Classification of External Causes of Injury and Poisoning” in the ICD-9-CM. Cause of

injury was not recorded for 35.3 percent of injury-related visits so the observed distribution could change with more complete reporting. For a detailed description of the cause of injury codes, see the “Technical Notes.”

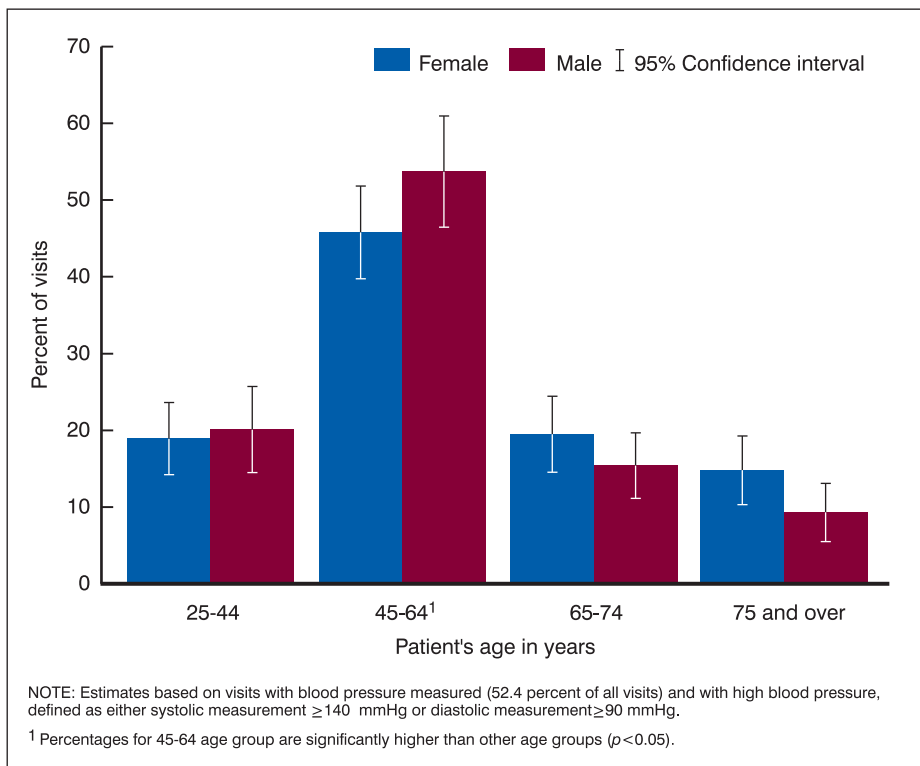
*Diagnostic and screening services*—**Table 17** displays examinations and diagnostic and screening services ordered or provided by physicians during office visits. At least one such service was provided at 85.7 percent of office visits. Information on diagnostic services was missing for 1.2 percent of visits.

The most frequently occurring diagnostic service was a general medical examination; one-half of all visits (50.4 percent) included a general medical examination. Some of the most frequent laboratory tests ordered include complete blood count (9.5 percent), urinalysis (8.6 percent), and lipids or cholesterol (6.5 percent) (**table 17**). Imaging was ordered or provided at 10.1 percent of visits; the majority of imaging services were x rays. Visits by females were more likely to have imaging performed compared with visits by males, a difference due mostly to mammographies. Visits by females were also more likely to have the following tests performed compared with visits by males: blood pressure, urinalysis, and urine culture.

Beginning in 2003, data were collected on two vital signs: temperature and blood pressure. When the patient's temperature was taken (30.1 percent of visits), the mean temperature for office visits was 98.0°F (36.7° C). The average temperature was 99.0°F (37.2°C) at visits where fever was the reason for visit (**table 18**). At 0.8 percent of illness visits, the patient had a fever of 102°F (38.9°C) or higher (data not shown).

The patient's blood pressure was measured at 52.4 percent of visits. The overall means for systolic and diastolic blood pressures were 125.9 and 75.6 mmHg, respectively. However, when the diagnosis was essential hypertension, the systolic and diastolic blood pressures were 140.1 and 81.2 mmHg, respectively. **Figure 6** highlights the percentage of visits made by patients with high blood pressure measurements, defined as systolic blood pressure  $\geq$  140





**Figure 6. Percent of office visits where patients have high blood pressure measurement, by patient age and sex: United States, 2003**

mmHg or diastolic blood pressure  $\geq 90$  mmHg. Among these visits, there were significantly higher percentages of visits by those aged 45–64 years who had high blood pressure compared with younger patients aged 25–44 years and the elderly aged 65 years and over. The lower percentage of visits with high blood pressure by persons aged 65 years and over may be related to better control and patient followup of this condition; a higher percentage of these visits were followup visits among the elderly (65.2 percent) than among younger patients aged 25–64 years (56.8 percent) (data not shown). Patients younger than 65 years of age may also have had less access to care because 87.1 percent of these visits by patients aged 25–64 years were covered by private insurance, Medicaid, or Medicare compared with 96.7 percent of visits by patients 65 years and over (data not shown). There was no significant difference in percentage of visits with high blood pressure by sex.

**Counseling or education and therapeutic services**—Table 19 shows that therapeutic and preventive services (excluding medication therapy, which

was reported separately) were ordered or provided at 41.5 percent of all office visits during 2003. The most frequent counseling or education provided at office visits related to diet or nutrition (14.3 percent) and exercise (10.1 percent). Females were just as likely as males to have any one of the 10 listed counseling, education, or therapeutic services ordered or provided at an office visit. Information regarding therapeutic services was missing for 3.3 percent of visits.

**Procedures**—In item 8 of the Patient Record form, physicians were instructed to record up to two ambulatory surgical procedures ordered, scheduled, or performed at the visit. Item 6, “Diagnostic and screening services,” included two open-ended “other” categories in addition to the checkbox categories. After analyzing data from the “other” categories and the ambulatory surgery checkbox (item 8), it was discovered that the same procedure was being recorded in different places on different records. Table 20 presents data from item 8 and the open-ended responses to item 6 as coded to ICD-9-CM volume 3 codes in the range

of 01–86 (11). During 2003, there were an estimated 74.8 million ambulatory surgical procedures ordered or performed during visits to office-based physicians. About 7.0 percent of all visits had such procedures ordered or performed.

**Medication therapy**—NAMCS respondents 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. For the first time, up to eight medications, referred to in this survey as drug mentions, were coded according to a classification system developed at NCHS. A report describing the method and instruments used to collect and process drug information is available (13). As used in the NAMCS, the term “drug” is interchangeable with the term “medication,” and 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 the NAMCS. Data on medication therapy are in tables 21–25.

Medication therapy was reported at 595.3 million office visits, accounting for 65.7 percent of all office visits (table 21). Multiple drugs were recorded at 39.5 percent of all visits. Although the maximum number of drug mentions listed increased from six to eight in 2003, the percentage of visits with six or more drug mentions (7.7 percent) was not significantly different from the percentage in 2002 (5.9 percent, estimate recomputed using revised weight). Similarly, the percentage of visits with any drug mentioned did not change between 2002 and 2003. During 2003, there were about 1.6 billion drugs mentioned resulting in an overall drug mention rate of 172.4 mentions per 100 visits (table 22). Data on drug visits and drug mentions by physician specialty are shown in table 22. The percentage of visits with at least one drug mention ranged from 88.2 percent for general psychiatrists to 20.5 percent for general surgeons.

Table 23 presents the 20 most frequent therapeutic classes of drug

mentions by four-digit therapeutic classification codes used in the *National Drug Code Directory*, 1995 edition. Drugs may have more than one therapeutic application, and up to three therapeutic drug classes are recorded for each drug (14). Prior to 2002, a drug was classified under its primary therapeutic use and data were presented for two-digit therapeutic classification codes. Beginning in 2002, drug data are shown for up to three therapeutic subclassifications at the four-digit level. In 2003, the leading drug subclasses were nonsteroidal anti-inflammatory drugs (NSAIDs) (5.1 percent), followed by antidepressants (4.9 percent), hyperlipidemia (4.0 percent), antihistamines (3.8 percent), and antiasthmatics or bronchodilators (3.8 percent).

Changes in drug mention rates by therapeutic class can be driven by numerous factors including the prevalence of the condition the drug treats, evidence supporting therapeutic efficacy of the drug, and the level of marketing the drug receives. For example, until recently, hormone replacement therapy (HRT) or the use of estrogen and progestin to reduce postmenopausal symptoms was thought to be associated with protective effects against osteoporosis and heart disease. Between 1995 and 2001, estrogen and progestin drug mention rates for women 65 years and over increased (figure 7), but were stable for females aged 45–64 years. Since 2001, overall rates of HRT for women 45 years and over declined from 55.6 to 30.7 drug mentions per 100 females between 2001 and 2003 (data not shown). The decline between 2001 and 2003 was more rapid among females 65 years and over (by 51%) than for females aged 45–64 years (by 44%) (figure 7). The declines in rates of HRT reflect the immediate effects of findings from two large clinical trials, the Heart and Estrogen/Progestin Replacement Study (HERS) and the Women’s Health Initiative (WHI) on physician prescribing patterns (15). Study findings released in July 2002 found increases in coronary heart events associated with hormone replacement therapy.

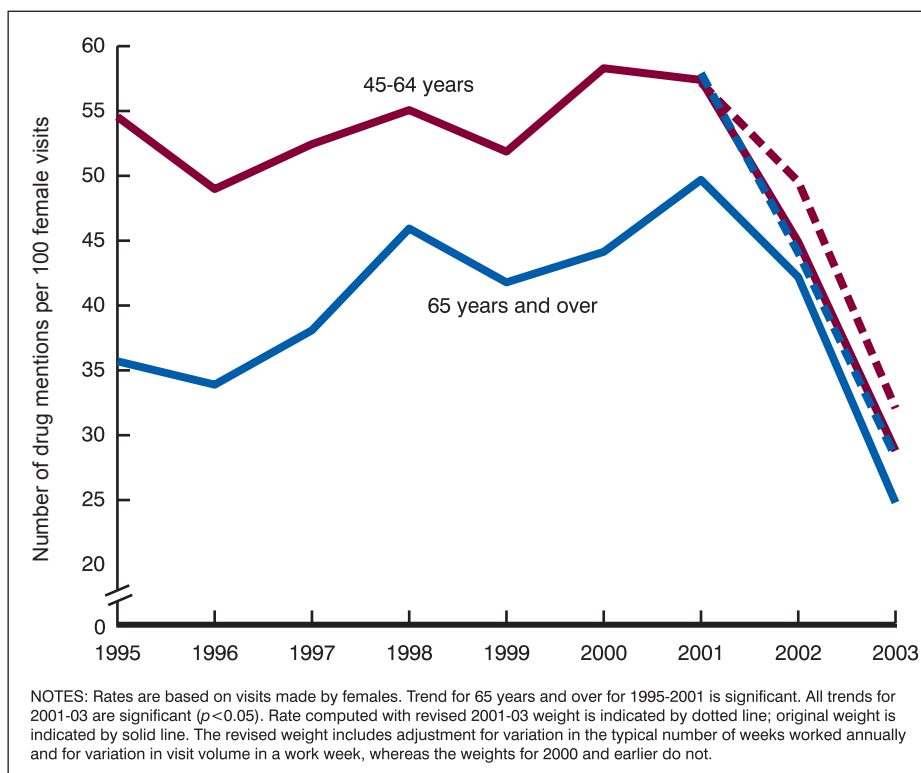


Figure 7. Trends in estrogen or progestin drug mention population rates at office visits by patient age: United States, 1995–2003

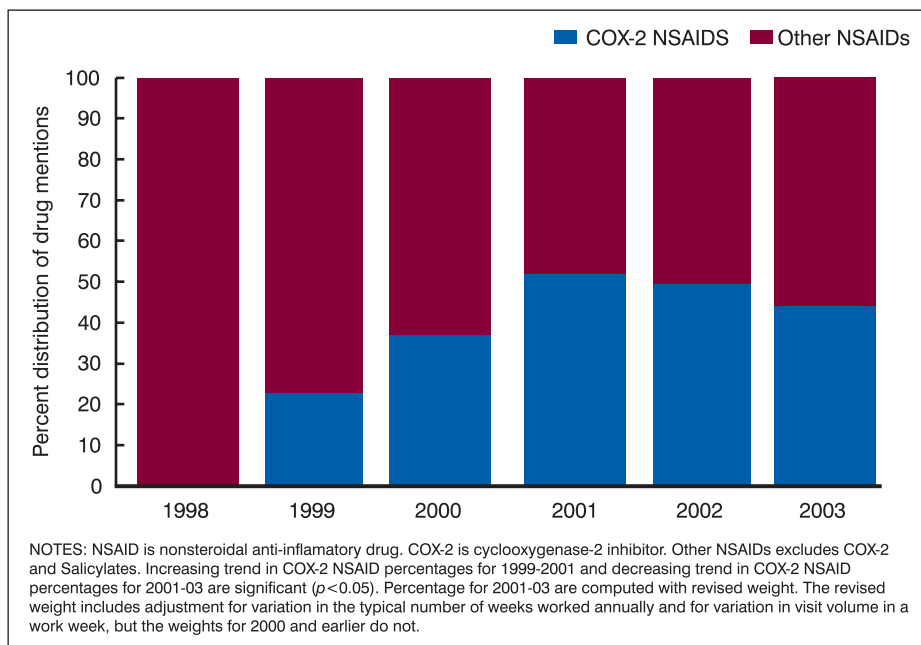


Figure 8. Percent of nonsteroidal anti-inflammatory drug prescriptions for patients aged 18 years and over by type of nonsteroidal anti-inflammatory drug: United States, 1998–2003

The 20 most frequently used generic substances for 2003 are shown in table 24. Drug products containing more than one ingredient (combination products) are included in the data for each ingredient. For example,

acetaminophen with codeine is included in both the count for acetaminophen and the count for codeine. Compared with the 19 other generic substances and consistent with previous years, acetaminophen was most frequently

used in drugs ordered or provided by the physician at office visits, occurring in 3.3 percent of drug mentions. This was followed by aspirin, amoxicillin, hydrochlorothiazide, and atorvastatin calcium.

Nonsteroidal anti-inflammatory drugs (NSAIDs) are used to treat a range of complaints—from headaches to persistent joint inflammation due to arthritis. In 2003, NSAIDs were the most frequent therapeutic class of drugs mentioned in physician offices. Two classes of NSAIDs are principally used to control pain and reduce inflammation: selective cyclooxygenase-2 (COX-2) inhibitors, first introduced in 1999, and nonselective COX inhibitors or traditional NSAIDs. Although traditional NSAIDs have quick pain-relieving properties, prolonged use by some patients was associated with gastrointestinal bleeding, and COX-2 inhibitors were not (16). Among NSAIDs prescribed to patients 18 years and over, the percentage of COX-2 inhibitor NSAIDs prescribed increased 129% between 1999 and 2001 (from 22.8 to 52.2 percent using the original weight) (figure 8). However, between 2001 and 2003, the percentage of COX-2 inhibitor NSAIDs prescribed declined by 15%, and the percentage of traditional NSAIDs prescribed increased by 17% (from 47.8 to 55.7 percent using the revised weight). The widespread prescribing of COX-2 inhibitor NSAIDs following its introduction to the market in 1999 has been attributed to extensive marketing to both physicians and consumers (16). However, the decline in percentage of COX-2 inhibitor prescriptions after 2001 may be related to early reports of increased risks of cardiovascular events associated with their use (17). In 2004, the COX-2 inhibitor, Vioxx, was removed from the market (18). Changes in prescribing patterns are expected in the next several years of NAMCS data. For this analysis, salicylates (predominantly aspirin), the remaining class of NSAIDs, were excluded because they are commonly prescribed to prevent heart disease, stroke, and, recently, for certain types of cancers.

Table 25 presents the 20 medications most frequently mentioned

by physicians in the NAMCS according to the name written on the Patient Record form. This could be a brand name, generic name, or therapeutic effect. Lipitor accounted for 30.4 million mentions (1.9 percent of the total) and was followed by aspirin (A.S.A), Albuterol, Synthroid, and Lasix. Fifteen of these drugs were among the top 20 drug entry names mentioned in 2002.

*Providers seen*—In this item, staff were asked to check all the providers seen during the visit. Overall, 95.5 percent of visits were attended by a physician (table 26). Medical or nursing assistants were seen at 21.6 percent of office visits. Midlevel providers, such as physician assistants, nurse practitioners, and midwives, were seen at 2.6 percent of physician office visits.

*Visit disposition*—Staff were asked to record all visit dispositions and instructed that multiple responses could be coded for this item. For 6 out of 10 visits (62.9 percent), patients were told to return to the office by appointment (table 27). “Return if needed” and “no followup planned” were indicated at 28.2 and 6.9 percent of visits, respectively. Patients were referred to other physicians at 6.0 percent of visits.

*Time spent with physician*—Data on the duration of office visits are presented in tables 28 and 29. Time spent in face-to-face contact between the physician and the patient is estimated and recorded by the physician. It excludes time spent waiting to see the physician, time spent receiving care from someone other than the physician without the presence of the physician, and time spent by the physician in reviewing patient records and test results. In cases where the patient received care from a nonphysician member of the physician’s staff but did not see the physician during the visit, the duration was recorded as “0” minutes.

In 2003, 88.3 percent of office visits with face-to-face contact between the physician and patient had a duration between 6 and 30 minutes (table 28). At 41 million visits, or 4.5 percent, there was no face-to-face contact between the physician and patient. Table 29 shows the mean duration for all visits at which

a physician was seen as well as the mean duration at each quartile by physician specialty. Overall, the mean time spent with a physician was 19.7 minutes. The visit duration for psychiatrists had the largest variability (a difference of 29.2 minutes between the first and third quartiles).

Additional information about physician office utilization is available from the NCHS Ambulatory Health Care Web site: <http://www.cdc.gov/nchs/about/major/ahcd/ahcd1.htm>. Individual-year reports and public-use data files are available for download from the Web site. Data from the 2003 NAMCS will also be available on CD-ROM. These and other products can be obtained by contacting the NCHS Ambulatory Care Statistics Branch at (301) 458–4600. Queries regarding NAMCS data may be sent to NCHS via [nchsquery@cdc.gov](mailto:nchsquery@cdc.gov).

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**Table 1. Number, percent distribution, and annual rate of office visits with corresponding standard errors, by selected physician practice characteristics: United States, 2003**

| Physician practice 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 . . . . .                  | 906,023                       | 34,276                      | 100.0                | ...                       | 317.3  | 12.0                   |
| Physician specialty                   |                               |                             |                      |                           |  |                        |
| General and family practice . . . . . | 223,067                       | 15,184                      | 24.6                 | 1.5                       | 78.1   | 5.3                    |
| Internal medicine . . . . .           | 141,366                       | 17,616                      | 15.6                 | 1.7                       | 49.5   | 6.2                    |
| Pediatrics . . . . .                  | 93,947                        | 9,343                       | 10.4                 | 1.0                       | <sup>3</sup> 154.8                                       | 15.4                   |
| Obstetrics and gynecology . . . . .   | 80,177                        | 10,104                      | 8.8                  | 1.0                       | <sup>4</sup> 68.9  | 8.7                    |
| Ophthalmology . . . . .               | 49,293                        | 6,727                       | 5.4                  | 0.7                       | 17.3   | 2.4                    |
| Orthopedic surgery . . . . .          | 43,770                        | 5,901                       | 4.8                  | 0.6                       | 15.3   | 2.1                    |
| Dermatology . . . . .                 | 29,801                        | 3,069                       | 3.3                  | 0.3                       | 10.4   | 1.1                    |
| Psychiatry . . . . .                  | 28,646                        | 3,298                       | 3.2                  | 0.4                       | 10.0   | 1.2                    |
| Cardiovascular diseases . . . . .     | 25,200                        | 3,119                       | 2.8                  | 0.3                       | 8.8  | 1.1                    |
| Otolaryngology . . . . .              | 21,406                        | 1,997                       | 2.4                  | 0.2                       | 7.5  | 0.7                    |
| General surgery . . . . .             | 19,490                        | 3,018                       | 2.2                  | 0.3                       | 6.8  | 1.1                    |
| Urology . . . . .                     | 18,352                        | 2,074                       | 2.0                  | 0.2                       | 6.4  | 0.7                    |
| Neurology . . . . .                   | 12,878                        | 1,566                       | 1.4                  | 0.2                       | 4.5  | 0.5                    |
| All other specialties . . . . .       | 118,631                       | 13,234                      | 13.1                 | 1.4                       | 41.5   | 4.6                    |
| Professional identity                 |                               |                             |                      |                           |  |                        |
| Doctor of medicine . . . . .          | 839,358                       | 33,534                      | 92.6                 | 0.9                       | 294.0  | 11.7                   |
| Doctor of osteopathy . . . . .        | 66,665                        | 8,073                       | 7.4                  | 0.9                       | 23.3   | 2.8                    |
| Specialty type <sup>5</sup>           |                               |                             |                      |                           |  |                        |
| Primary care . . . . .                | 534,058                       | 29,459                      | 58.9                 | 1.7                       | 187.0  | 10.3                   |
| Surgical specialty . . . . .          | 182,707                       | 11,192                      | 20.2                 | 1.2                       | 64.0   | 3.9                    |
| Medical specialty . . . . .           | 189,258                       | 14,038                      | 20.9                 | 1.5                       | 66.3   | 4.9                    |
| Geographic region                     |                               |                             |                      |                           |  |                        |
| Northeast . . . . .                   | 189,369                       | 13,293                      | 20.9                 | 1.4                       | 353.5  | 24.8                   |
| Midwest . . . . .                     | 182,142                       | 15,097                      | 20.1                 | 1.5                       | 282.9  | 23.5                   |
| South . . . . .                       | 338,963                       | 23,786                      | 37.4                 | 2.0                       | 331.6  | 23.3                   |
| West . . . . .                        | 195,549                       | 15,589                      | 21.6                 | 1.5                       | 299.2  | 23.9                   |
| Metropolitan status                   |                               |                             |                      |                           |  |                        |
| MSA <sup>6</sup> . . . . .            | 797,992                       | 32,470                      | 88.1                 | 1.7                       | 334.7  | 13.6                   |
| Not MSA <sup>6</sup> . . . . .        | 108,031                       | 15,897                      | 11.9                 | 1.7                       | 229.3  | 33.7                   |

... Category not applicable.

<sup>1</sup>Visit rates for age, sex, race, and region are based on the July 1, 2003, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau. These population estimates reflect Census 2000 data and are available from the U.S. Census Bureau. See "Technical Notes" for more details.

<sup>2</sup>Population estimates of metropolitan statistical area status are based on data from the 2003 National Health Interview Survey, National Center for Health Statistics, adjusted to the U.S. Census Bureau definition of core-based statistical areas as of December 2003. See <http://www.census.gov/population/www/estimates/metrodef.html> for more about metropolitan statistical area definitions.

<sup>3</sup>Number of visits (numerator) and population estimate (denominator) include children under 15 years of age.

<sup>4</sup>Number of visits (numerator) and population estimate (denominator) include females 15 years of age and over.

<sup>5</sup>Specialty type is defined in table IV of the "Technical Notes."

<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, 2003**

| Physician practice characteristics          | Number of visits in thousands | Standard error in thousands | Percent distribution | Standard error of percent |
|---|-------------------------------|-----------------------------|----------------------|---------------------------|
| All visits . . . . .                        | 906,023                       | 34,276                      | 100.0                | ...                       |
| Employment status                           |                               |                             |                      |                           |
| Owner . . . . .                             | 691,728                       | 34,665                      | 76.3                 | 1.9                       |
| Employee . . . . .                          | 194,420                       | 17,208                      | 21.5                 | 1.9                       |
| Contractor . . . . .                        | 19,874                        | 5,033                       | 2.2                  | 0.5                       |
| Ownership                                   |                               |                             |                      |                           |
| Physician or group . . . . .                | 787,246                       | 35,363                      | 86.9                 | 1.7                       |
| Other health care corporation . . . . .     | 37,050                        | 8,493                       | 4.1                  | 1.0                       |
| Other hospital . . . . .                    | 29,630                        | 8,512                       | 3.3                  | 0.9                       |
| Medical or academic health center . . . . . | 26,411                        | 7,382                       | 2.9                  | 0.8                       |
| HMO <sup>1</sup> . . . . .                  | *9,707                        | 3,704                       | *1.1                 | 0.4                       |
| Other <sup>2</sup> . . . . .                | 15,979                        | 4,579                       | 1.8                  | 0.5                       |
| Practice size                               |                               |                             |                      |                           |
| Solo . . . . .                              | 349,149                       | 26,427                      | 38.5                 | 2.3                       |
| 2-4 . . . . .                               | 313,924                       | 21,995                      | 34.6                 | 2.2                       |
| 5-9 . . . . .                               | 149,929                       | 15,496                      | 16.5                 | 1.6                       |
| 10-39 . . . . .                             | 80,176                        | 9,978                       | 8.8                  | 1.1                       |
| 40 or more . . . . .                        | *12,845                       | 6,468                       | *1.4                 | 0.7                       |
| Blank . . . . .                             | *                             | ...                         | *                    | ...                       |
| Type of practice                            |                               |                             |                      |                           |
| Single-specialty group . . . . .            | 398,615                       | 24,267                      | 44.0                 | 2.2                       |
| Multispecialty group . . . . .              | 158,258                       | 14,655                      | 17.5                 | 1.6                       |
| Solo . . . . .                              | 349,149                       | 26,427                      | 38.5                 | 2.3                       |
| Office type                                 |                               |                             |                      |                           |
| Private practice . . . . .                  | 808,631                       | 35,395                      | 89.3                 | 1.6                       |
| Clinic or urgent center . . . . .           | 66,607                        | 13,186                      | 7.4                  | 1.5                       |
| Other <sup>3</sup> . . . . .                | 30,785                        | 6,166                       | 3.4                  | 0.7                       |

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

... Category not applicable.

<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, non-Federal government clinic, mental health center, federally qualified health center, and facility 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 characteristics: United States, 2003**

| Patient 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 visits . . . . .                                | 906,023                       | 34,276                      | 100.0                | ...                       | 317.3  | 12.0                   |
| Age   |                               |                             |                      |                           |  |                        |
| Under 15 years . . . . .                            | 145,245                       | 11,417                      | 16.0                 | 1.0                       | 239.3  | 18.8                   |
| 15–24 years . . . . .                               | 72,447                        | 4,925                       | 8.0                  | 0.4                       | 180.6  | 12.3                   |
| 25–44 years . . . . .                               | 203,553                       | 9,709                       | 22.5                 | 0.7                       | 247.5  | 11.8                   |
| 45–64 years . . . . .                               | 257,258                       | 11,483                      | 28.4                 | 0.7                       | 377.2  | 16.8                   |
| 65–74 years . . . . .                               | 106,424                       | 5,422                       | 11.7                 | 0.5                       | 588.2  | 30.0                   |
| 75 years and over . . . . .                         | 121,096                       | 6,962                       | 13.4                 | 0.7                       | 748.2  | 43.0                   |
| Sex and age   |                               |                             |                      |                           |  |                        |
| Female . . . . .                                    | 537,298                       | 22,053                      | 59.3                 | 0.7                       | 367.8  | 15.1                   |
| Under 15 years . . . . .                            | 67,442                        | 4,980                       | 7.4                  | 0.5                       | 227.5  | 16.8                   |
| 15–24 years . . . . .                               | 46,705                        | 3,930                       | 5.2                  | 0.4                       | 234.9  | 19.8                   |
| 25–44 years . . . . .                               | 136,881                       | 7,576                       | 15.1                 | 0.6                       | 328.7  | 18.2                   |
| 45–64 years . . . . .                               | 153,417                       | 7,463                       | 16.9                 | 0.5                       | 436.7  | 21.2                   |
| 65–74 years . . . . .                               | 60,449                        | 3,814                       | 6.7                  | 0.4                       | 613.3  | 38.7                   |
| 75 years and over . . . . .                         | 72,404                        | 4,626                       | 8.0                  | 0.5                       | 730.1  | 46.6                   |
| Male . . . . .                                      | 368,724                       | 14,819                      | 40.7                 | 0.7                       | 264.4  | 10.6                   |
| Under 15 years . . . . .                            | 77,802                        | 6,845                       | 8.6                  | 0.6                       | 250.6  | 22.0                   |
| 15–24 years . . . . .                               | 25,742                        | 2,056                       | 2.8                  | 0.2                       | 127.2  | 10.2                   |
| 25–44 years . . . . .                               | 66,672                        | 3,520                       | 7.4                  | 0.3                       | 164.3  | 8.7                    |
| 45–64 years . . . . .                               | 103,841                       | 5,047                       | 11.5                 | 0.4                       | 313.9  | 15.3                   |
| 65–74 years . . . . .                               | 45,975                        | 2,362                       | 5.1                  | 0.2                       | 558.2  | 28.7                   |
| 75 years and over . . . . .                         | 48,692                        | 2,861                       | 5.4                  | 0.3                       | 776.8  | 45.6                   |
| Race and age <sup>2</sup>                           |                               |                             |                      |                           |  |                        |
| White . . . . .                                     | 777,112                       | 31,113                      | 85.8                 | 1.0                       | 337.2  | 13.5                   |
| Under 15 years . . . . .                            | 123,902                       | 9,707                       | 13.7                 | 0.9                       | 267.2  | 20.9                   |
| 15–24 years . . . . .                               | 61,914                        | 4,638                       | 6.8                  | 0.4                       | 197.8  | 14.8                   |
| 25–44 years . . . . .                               | 171,171                       | 8,749                       | 18.9                 | 0.6                       | 260.5  | 13.3                   |
| 45–64 years . . . . .                               | 221,430                       | 10,670                      | 24.4                 | 0.8                       | 388.2  | 18.7                   |
| 65–74 years . . . . .                               | 90,885                        | 4,965                       | 10.0                 | 0.4                       | 582.0  | 31.8                   |
| 75 years and over . . . . .                         | 107,811                       | 6,548                       | 11.9                 | 0.7                       | 747.0  | 45.4                   |
| Black or African American . . . . .                 | 84,268                        | 6,708                       | 9.3                  | 0.7                       | 235.9  | 18.8                   |
| Under 15 years . . . . .                            | 13,038                        | 1,963                       | 1.4                  | 0.2                       | 138.0  | 20.8                   |
| 15–24 years . . . . .                               | 7,138                         | 1,063                       | 0.8                  | 0.1                       | 123.2  | 18.3                   |
| 25–44 years . . . . .                               | 22,957                        | 2,589                       | 2.5                  | 0.3                       | 222.3  | 25.1                   |
| 45–64 years . . . . .                               | 23,933                        | 1,983                       | 2.6                  | 0.2                       | 327.4  | 27.1                   |
| 65–74 years . . . . .                               | 9,924                         | 1,215                       | 1.1                  | 0.1                       | 601.5  | 73.6                   |
| 75 years and over . . . . .                         | 7,277                         | 1,202                       | 0.8                  | 0.1                       | 607.6  | 100.3                  |
| All other races <sup>2</sup>                        |                               |                             |                      |                           |  |                        |
| Asian . . . . .                                     | 37,122                        | 6,840                       | 4.1                  | 0.7                       | 313.2  | 57.7                   |
| Native Hawaiian or other Pacific Islander . . . . . | *2,914                        | 1,036                       | *0.3                 | 0.1                       | *599.3   | 213.1                  |
| American Indian or Alaska Native . . . . .          | *2,071                        | 623                         | *0.2                 | 0.1                       | *75.8  | 22.8                   |
| Multiple races . . . . .                            | 2,536                         | 559                         | 0.3                  | 0.1                       | 59.6   | 13.1                   |
| Ethnicity <sup>2</sup>                              |                               |                             |                      |                           |  |                        |
| Hispanic or Latino . . . . .                        | 102,687                       | 13,908                      | 11.3                 | 1.4                       | 260.8  | 35.3                   |
| Not Hispanic or Latino . . . . .                    | 803,335                       | 31,670                      | 88.7                 | 1.4                       | 326.4  | 12.9                   |

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

... Category not applicable.

<sup>1</sup>Visit rates for age, sex, race, and ethnicity are based on the July 1, 2003, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau. These population estimates reflect Census 2000 data and are available from the U.S. Census Bureau. See "Technical Notes" for more details.<sup>2</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. 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. However, the percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race. See "Technical Notes" for more details.

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

**Table 4. Number and percent distribution of office visits with corresponding standard errors by selected visit characteristics, according to prior-visit status: United States, 2003**

| Primary care physician and referral status  | All visits | Prior-visit status  |             |
|---|------------|---------------------|-------------|
|   |            | Established patient | New patient |
| Number of visits in thousands               |            |                     |             |
| All visits . . . . .                        | 906,023    | 800,892             | 105,130     |
| Visit to PCP <sup>1</sup> . . . . .         | 433,832    | 414,064             | 19,767      |
| Visit to non-PCP <sup>1</sup> . . . . .     | 437,917    | 360,077             | 77,840      |
| Referred by other physician . . . . .       | 131,538    | 83,059              | 48,479      |
| Not referred by other physician . . . . .   | 248,443    | 230,253             | 18,190      |
| Unknown if referred . . . . .               | 57,936     | 46,765              | 11,171      |
| Unknown if PCP <sup>1</sup> visit . . . . . | 34,274     | 26,751              | 7,523       |
| Standard error in thousands                 |            |                     |             |
| All visits . . . . .                        | 34,276     | 31,035              | 5,515       |
| Visit to PCP <sup>1</sup> . . . . .         | 25,777     | 24,283              | 2,687       |
| Visit to non-PCP <sup>1</sup> . . . . .     | 20,099     | 16,709              | 4,905       |
| Referred by other physician . . . . .       | 8,287      | 6,436               | 3,278       |
| Not referred by other physician . . . . .   | 14,725     | 13,683              | 2,139       |
| Unknown if referred . . . . .               | 6,423      | 5,504               | 1,324       |
| Unknown if PCP <sup>1</sup> visit . . . . . | 5,022      | 4,228               | 1,327       |
| Percent distribution                        |            |                     |             |
| All visits . . . . .                        | 100.0      | 100.0               | 100.0       |
| Visit to PCP <sup>1</sup> . . . . .         | 47.9       | 51.7                | 18.8        |
| Visit to non-PCP <sup>1</sup> . . . . .     | 48.3       | 45.0                | 74.0        |
| Referred by other physician . . . . .       | 14.5       | 10.4                | 46.1        |
| Not referred by other physician . . . . .   | 27.4       | 28.7                | 17.3        |
| Unknown if referred . . . . .               | 6.4        | 5.8                 | 10.6        |
| Unknown if PCP <sup>1</sup> visit . . . . . | 3.8        | 3.3                 | 7.2         |
| Standard error of percent                   |            |                     |             |
| All visits . . . . .                        | ...        | ...                 | ...         |
| Visit to PCP <sup>1</sup> . . . . .         | 1.8        | 1.8                 | 2.4         |
| Visit to non-PCP <sup>1</sup> . . . . .     | 1.8        | 1.8                 | 2.5         |
| Referred by other physician . . . . .       | 0.9        | 0.8                 | 2.5         |
| Not referred by other physician . . . . .   | 1.4        | 1.6                 | 1.7         |
| Unknown if referred . . . . .               | 0.6        | 0.6                 | 1.0         |
| Unknown if PCP <sup>1</sup> visit . . . . . | 0.5        | 0.5                 | 1.2         |

... Category not applicable.

<sup>1</sup>PCP is patient's primary care physician or provider.

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



**Table 5. Percent distribution of office visits with corresponding standard errors by physician specialty, according to primary care physician and referral status: United States, 2003**

| Physician specialty                   | Total | Visit to PCP <sup>1</sup> | Visit to non-PCP <sup>2</sup> |                                 |                     |                                   |
|---------------------------------------|-------|---------------------------|-------------------------------|---------------------------------|---------------------|-----------------------------------|
|                                       |       |                           | Referred by other physician   | Not referred by other physician | Unknown if referred | Unknown if PCP <sup>1</sup> visit |
| Percent distribution                  |       |                           |                               |                                 |                     |                                   |
| All visits . . . . .                  | 100.0 | 47.9                      | 14.5                          | 27.4                            | 6.4                 | 3.8                               |
| General and family practice . . . . . | 100.0 | 84.4                      | 1.3                           | 7.5                             | 2.4                 | 4.3                               |
| Internal medicine . . . . .           | 100.0 | 85.0                      | *2.6                          | 4.7                             | *                   | *6.4                              |
| Pediatrics . . . . .                  | 100.0 | 88.4                      | *3.0                          | *4.5                            | *2.0                | 2.1                               |
| Obstetrics and gynecology . . . . .   | 100.0 | 21.5                      | 13.9                          | 46.2                            | *14.4               | *3.9                              |
| Ophthalmology . . . . .               | 100.0 | *3.1                      | 22.4                          | 63.0                            | 9.9                 | *1.6                              |
| Orthopedic surgery . . . . .          | 100.0 | *                         | 29.2                          | 53.2                            | 14.1                | *                                 |
| Dermatology . . . . .                 | 100.0 | *                         | 19.7                          | 60.9                            | 16.2                | 3.0                               |
| Psychiatry . . . . .                  | 100.0 | *8.7                      | 22.5                          | 51.8                            | 12.0                | *5.1                              |
| Cardiovascular diseases . . . . .     | 100.0 | 16.4                      | 29.4                          | 44.5                            | 8.0                 | *                                 |
| Otolaryngology . . . . .              | 100.0 | *                         | 36.9                          | 46.5                            | 12.5                | *2.9                              |
| General surgery . . . . .             | 100.0 | *9.4                      | 50.7                          | 31.9                            | 7.0                 | *                                 |
| Urology . . . . .                     | 100.0 | *4.3                      | 32.6                          | 47.3                            | 11.6                | *4.2                              |
| Neurology . . . . .                   | 100.0 | *3.7                      | 52.4                          | 33.8                            | 8.3                 | *1.9                              |
| All other specialties . . . . .       | 100.0 | *11.0                     | 31.0                          | 47.3                            | 7.3                 | *3.5                              |
| Standard error of percent             |       |                           |                               |                                 |                     |                                   |
| All visits . . . . .                  | ...   | 1.8                       | 0.9                           | 1.4                             | 0.6                 | 0.5                               |
| General and family practice . . . . . | ...   | 2.3                       | 0.3                           | 1.7                             | 0.6                 | 0.8                               |
| Internal medicine . . . . .           | ...   | 3.3                       | 0.8                           | 1.3                             | ...                 | 2.3                               |
| Pediatrics . . . . .                  | ...   | 2.4                       | 1.1                           | 1.7                             | 0.7                 | 0.5                               |
| Obstetrics and gynecology . . . . .   | ...   | 5.7                       | 3.5                           | 6.1                             | 4.8                 | 1.3                               |
| Ophthalmology . . . . .               | ...   | 1.7                       | 4.5                           | 5.5                             | 2.3                 | 0.6                               |
| Orthopedic surgery . . . . .          | ...   | ...                       | 2.7                           | 4.0                             | 2.2                 | ...                               |
| Dermatology . . . . .                 | ...   | ...                       | 3.1                           | 4.1                             | 3.0                 | 0.8                               |
| Psychiatry . . . . .                  | ...   | 5.0                       | 4.5                           | 6.3                             | 3.5                 | 3.1                               |
| Cardiovascular diseases . . . . .     | ...   | 4.5                       | 3.9                           | 5.3                             | 1.9                 | ...                               |
| Otolaryngology . . . . .              | ...   | ...                       | 3.0                           | 3.9                             | 3.2                 | 1.3                               |
| General surgery . . . . .             | ...   | 4.3                       | 6.1                           | 5.7                             | 1.7                 | ...                               |
| Urology . . . . .                     | ...   | 1.8                       | 4.5                           | 4.4                             | 2.4                 | 1.6                               |
| Neurology . . . . .                   | ...   | 1.4                       | 4.3                           | 4.1                             | 2.0                 | 0.6                               |
| All other specialties . . . . .       | ...   | 3.5                       | 4.0                           | 4.6                             | 1.2                 | 1.5                               |

... Category not applicable.

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

<sup>1</sup>PCP is patient's primary care physician or provider.

<sup>2</sup>Referral status only asked for visits to nonprimary care physicians or providers.

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

**Table 6. Number and percent distribution of office visits with corresponding standard errors, by continuity-of-care visit characteristics according to specialty type: United States, 2003**

| Continuity-of-care visit characteristics                      | Specialty type                |              |                      |                           | Specialty type              |              |                      |                     |
|---|-------------------------------|--------------|----------------------|---------------------------|-----------------------------|--------------|----------------------|---------------------|
|   | All specialties               | Primary care | Surgical specialties | Medical specialties       | All specialties             | Primary care | Surgical specialties | Medical specialties |
|   | Number of visits in thousands |              |                      |                           | Standard error in thousands |              |                      |                     |
| All visits . . . . .  | 906,023                       | 534,058      | 182,707              | 189,258                   | 34,276                      | 29,459       | 11,192               | 14,038              |
| Prior-visit status and number of visits in last 12 months     |                               |              |                      |                           |                             |              |                      |                     |
| Established patient. . . . .                                  | 800,892                       | 492,291      | 147,634              | 160,968                   | 31,035                      | 27,157       | 9,375                | 12,345              |
| None . . . . .  | 62,237                        | 33,652       | 18,502               | 10,083                    | 4,598                       | 3,637        | 2,278                | 1,157               |
| 1–2 visits . . . . .  | 275,147                       | 159,389      | 59,403               | 56,354                    | 12,805                      | 10,960       | 4,227                | 4,837               |
| 3–5 visits . . . . .  | 254,210                       | 164,404      | 44,063               | 45,743                    | 12,039                      | 10,953       | 3,147                | 4,182               |
| 6 or more visits . . . . .                                    | 209,299                       | 134,845      | 25,666               | 48,788                    | 11,967                      | 10,197       | 2,677                | 5,951               |
| New patient . . . . .   | 105,130                       | 41,767       | 35,073               | 28,290                    | 5,515                       | 3,749        | 2,777                | 2,800               |
| Do other physicians share care for this problem?              |                               |              |                      |                           |                             |              |                      |                     |
| Yes . . . . .   | 213,651                       | 99,818       | 51,532               | 62,301                    | 12,034                      | 9,225        | 4,828                | 6,975               |
| No . . . . .  | 587,943                       | 377,831      | 110,246              | 99,867                    | 28,189                      | 23,396       | 8,614                | 8,940               |
| Unknown or blank . . . . .                                    | 104,428                       | 56,409       | 20,929               | 27,090                    | 10,573                      | 7,685        | 3,188                | 4,732               |
| Episode of care   |                               |              |                      |                           |                             |              |                      |                     |
| Initial visit for problem . . . . .                           | 278,777                       | 193,011      | 49,896               | 35,871                    | 12,966                      | 11,890       | 3,635                | 3,609               |
| Followup visit for problem . . . . .                          | 425,334                       | 182,362      | 111,964              | 131,007                   | 18,046                      | 12,986       | 7,232                | 10,837              |
| Unknown or blank . . . . .                                    | 59,977                        | 34,008       | 13,888               | 12,082                    | 6,998                       | 6,171        | 2,006                | 2,322               |
| Not applicable (preventive care visit) <sup>1</sup> . . . . . | 141,935                       | 124,677      | 6,959                | *10,298                   | 9,977                       | 9,515        | 1,349                | 3,111               |
| Percent distribution  |                               |              |                      | Standard error of percent |                             |              |                      |                     |
| All visits . . . . .  | 100.0                         | 100.0        | 100.0                | 100.0                     | ...                         | ...          | ...                  | ...                 |
| Prior-visit status and number of visits in last 12 months     |                               |              |                      |                           |                             |              |                      |                     |
| Established patient. . . . .                                  | 88.4                          | 92.2         | 80.8                 | 85.1                      | 0.5                         | 0.5          | 1.0                  | 1.1                 |
| None . . . . .  | 6.9                           | 6.3          | 10.1                 | 5.3                       | 0.5                         | 0.6          | 1.1                  | 0.6                 |
| 1–2 visits . . . . .  | 30.4                          | 29.8         | 32.5                 | 29.8                      | 0.8                         | 1.2          | 1.2                  | 1.3                 |
| 3–5 visits . . . . .  | 28.1                          | 30.8         | 24.1                 | 24.2                      | 0.7                         | 1.1          | 1.0                  | 1.4                 |
| 6 or more visits . . . . .                                    | 23.1                          | 25.2         | 14.0                 | 25.8                      | 1.0                         | 1.4          | 1.1                  | 2.2                 |
| New patient . . . . .   | 11.6                          | 7.8          | 19.2                 | 14.9                      | 0.5                         | 0.5          | 1.0                  | 1.1                 |
| Do other physicians share care for this problem?              |                               |              |                      |                           |                             |              |                      |                     |
| Yes . . . . .   | 23.6                          | 18.7         | 28.2                 | 32.9                      | 1.3                         | 1.4          | 2.3                  | 2.8                 |
| No . . . . .  | 64.9                          | 70.7         | 60.3                 | 52.8                      | 1.5                         | 1.8          | 2.6                  | 3.0                 |
| Unknown or blank . . . . .                                    | 11.5                          | 10.6         | 11.5                 | 14.3                      | 1.1                         | 1.3          | 1.5                  | 2.1                 |
| Episode of care   |                               |              |                      |                           |                             |              |                      |                     |
| Initial visit for problem . . . . .                           | 30.8                          | 36.1         | 27.3                 | 19.0                      | 0.9                         | 1.4          | 1.2                  | 1.5                 |
| Followup visit for problem . . . . .                          | 46.9                          | 34.1         | 61.3                 | 69.2                      | 1.1                         | 1.4          | 1.4                  | 2.3                 |
| Unknown or blank . . . . .                                    | 6.6                           | 6.4          | 7.6                  | 6.4                       | 0.7                         | 1.1          | 0.9                  | 1.2                 |
| Not applicable (preventive care visit) <sup>1</sup> . . . . . | 15.7                          | 23.3         | 3.8                  | 5.4                       | 0.9                         | 1.2          | 0.7                  | 1.5                 |

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

... Category not applicable.

<sup>1</sup>Preventive care includes routine prenatal, general medical, well-baby, and screening or insurance examinations.

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

**Table 7. Number and percent distribution of office visits with corresponding standard errors, by primary expected source of payment: United States, 2003**

| Primary expected source of payment       | Number of visits in thousands | Standard error in thousands | Percent distribution | Standard error of percent |
|--|-------------------------------|-----------------------------|----------------------|---------------------------|
| All visits . . . . .                     | 906,023                       | 34,276                      | 100.0                | . . .                     |
| Private insurance . . . . .              | 508,903                       | 22,454                      | 56.2                 | 1.3                       |
| Medicare . . . . .                       | 206,345                       | 10,587                      | 22.8                 | 0.9                       |
| Medicaid or SCHIP <sup>1</sup> . . . . . | 92,191                        | 8,772                       | 10.2                 | 0.8                       |
| Self-pay . . . . .                       | 41,521                        | 4,036                       | 4.6                  | 0.4                       |
| Worker's compensation . . . . .          | 10,412                        | 1,681                       | 1.1                  | 0.2                       |
| No charge or charity . . . . .           | 2,677                         | 622                         | 0.3                  | 0.1                       |
| Other . . . . .                          | 20,520                        | 2,920                       | 2.3                  | 0.3                       |
| Unknown or blank . . . . .               | 23,455                        | 2,947                       | 2.6                  | 0.3                       |

. . . Category not applicable.

<sup>1</sup>SCHIP is State Children's Health Insurance Program.

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

**Table 8. Number and percent distribution of office visits with corresponding standard errors, by patient's principal reason for visit: United States, 2003**

| 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 |
|---|-------------------------------|-----------------------------|----------------------|---------------------------|
| All visits . . . . .  | 906,023                       | 34,276                      | 100.0                | . . .                     |
| Symptom module. . . . .   | 458,478                       | 19,003                      | 50.6                 | 1.0                       |
| General symptoms . . . . .  | 49,933                        | 3,187                       | 5.5                  | 0.3                       |
| Symptoms referable to psychological and mental disorders . . . . .          | 28,599                        | 2,768                       | 3.2                  | 0.3                       |
| Symptoms referable to the nervous system (excluding sense organs) . . . . . | 25,938                        | 1,789                       | 2.9                  | 0.2                       |
| Symptoms referable to the cardiovascular and lymphatic system . . . . .     | 4,603                         | 753                         | 0.5                  | 0.1                       |
| Symptoms referable to the eyes and ears . . . . .                           | 48,722                        | 4,189                       | 5.4                  | 0.4                       |
| Symptoms referable to the respiratory system . . . . .                      | 94,409                        | 7,065                       | 10.4                 | 0.6                       |
| Symptoms referable to the digestive system. . . . .                         | 37,430                        | 3,077                       | 4.1                  | 0.3                       |
| Symptoms referable to the genitourinary system . . . . .                    | 34,614                        | 2,817                       | 3.8                  | 0.3                       |
| Symptoms referable to the skin, hair, and nails . . . . .                   | 43,685                        | 3,104                       | 4.8                  | 0.3                       |
| Symptoms referable to the musculoskeletal system . . . . .                  | 90,545                        | 6,658                       | 10.0                 | 0.6                       |
| Disease module . . . . .  | 107,331                       | 6,200                       | 11.8                 | 0.6                       |
| Diagnostic, screening, and preventive module . . . . .                      | 160,406                       | 10,252                      | 17.7                 | 0.9                       |
| Treatment module . . . . .  | 122,615                       | 8,850                       | 13.5                 | 0.8                       |
| Injuries and adverse effects module . . . . .                               | 21,273                        | 2,146                       | 2.3                  | 0.2                       |
| Test results module . . . . .   | 20,223                        | 1,987                       | 2.2                  | 0.2                       |
| Administrative module. . . . .  | 7,249                         | 1,366                       | 0.8                  | 0.1                       |
| Other <sup>2</sup> . . . . .  | 8,448                         | 1,253                       | 0.9                  | 0.1                       |

. . . Category not applicable.

<sup>1</sup>Based on *A Reason for Visit Classification for Ambulatory Care* (RVC) (10).<sup>2</sup>Includes problems and complaints not elsewhere classified, entries of "none," blanks, and illegible entries.

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, 2003**

| Principal reason for visit and RVC code <sup>1</sup>   | Number of visits in thousands | Standard error in thousands | Percent distribution | Standard error or percent | Female <sup>2</sup>  |                           | Male <sup>3</sup>    |                           |
|--|-------------------------------|-----------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|
|  |                               |                             |                      |                           | Percent distribution | Standard error of percent | Percent distribution | Standard error of percent |
| All visits . . . . .                                   | 906,023                       | 34,276                      | 100.0                | ...                       | 100.0                | ...                       | 100.0                | ...                       |
| General medical examination . . . . . X100             | 59,838                        | 5,244                       | 6.6                  | 0.5                       | 5.7                  | 0.6                       | 8.0                  | 0.7                       |
| Progress visit, not otherwise specified . . . . . T800 | 42,504                        | 5,335                       | 4.7                  | 0.5                       | 4.0                  | 0.6                       | 5.6                  | 0.6                       |
| Cough . . . . . S440                                   | 28,759                        | 2,598                       | 3.2                  | 0.3                       | 2.9                  | 0.3                       | 3.6                  | 0.4                       |
| Prenatal examination, routine . . . . . X205           | 24,457                        | 3,859                       | 2.7                  | 0.4                       | 4.6                  | 0.6                       | ...                  | ...                       |
| Postoperative visit . . . . . T205                     | 24,202                        | 2,322                       | 2.7                  | 0.2                       | 2.9                  | 0.3                       | 2.3                  | 0.2                       |
| Symptoms referable to throat . . . . . S455            | 23,314                        | 2,557                       | 2.6                  | 0.2                       | 2.5                  | 0.3                       | 2.7                  | 0.3                       |
| Medication, other and unspecified kinds . . . . . T115 | 15,758                        | 1,718                       | 1.7                  | 0.2                       | 1.7                  | 0.2                       | 1.9                  | 0.2                       |
| Gynecological examination . . . . . X225               | 15,553                        | 2,741                       | 1.7                  | 0.3                       | 2.9                  | 0.5                       | ...                  | ...                       |
| Knee symptoms . . . . . S925                           | 15,501                        | 1,997                       | 1.7                  | 0.2                       | 1.8                  | 0.2                       | 1.6                  | 0.2                       |
| Back symptoms . . . . . S905                           | 15,023                        | 1,673                       | 1.7                  | 0.2                       | 1.5                  | 0.2                       | 1.8                  | 0.2                       |
| Vision dysfunctions . . . . . S305                     | 13,568                        | 2,820                       | 1.5                  | 0.3                       | 1.4                  | 0.3                       | 1.6                  | 0.4                       |
| Stomach pain, cramps, and spasms . . . . . S545        | 13,429                        | 1,284                       | 1.5                  | 0.1                       | 1.8                  | 0.2                       | 1.1                  | 0.1                       |
| Skin rash . . . . . S860                               | 12,955                        | 1,183                       | 1.4                  | 0.1                       | 1.3                  | 0.1                       | 1.6                  | 0.2                       |
| Hypertension . . . . . D510                            | 12,012                        | 1,788                       | 1.3                  | 0.2                       | 1.4                  | 0.3                       | 1.3                  | 0.2                       |
| Nasal congestion . . . . . S400                        | 11,897                        | 1,851                       | 1.3                  | 0.2                       | 1.3                  | 0.2                       | 1.4                  | 0.2                       |
| Earache or ear infection . . . . . S355                | 11,800                        | 1,099                       | 1.3                  | 0.1                       | 1.1                  | 0.1                       | 1.6                  | 0.2                       |
| Fever . . . . . S010                                   | 10,723                        | 1,221                       | 1.2                  | 0.1                       | 0.9                  | 0.1                       | 1.6                  | 0.2                       |
| Well baby examination . . . . . X105                   | 10,620                        | 1,727                       | 1.2                  | 0.2                       | 0.9                  | 0.2                       | 1.6                  | 0.3                       |
| Headache, pain in head . . . . . S210                  | 10,408                        | 990                         | 1.1                  | 0.1                       | 1.4                  | 0.1                       | 0.7                  | 0.1                       |
| Depression . . . . . S110                              | 10,216                        | 1,404                       | 1.1                  | 0.2                       | 1.3                  | 0.2                       | 0.9                  | 0.1                       |
| All other reasons . . . . .                            | 523,485                       | 20,277                      | 57.8                 | 1.0                       | 56.9                 | 1.1                       | 59.1                 | 1.1                       |

... Category not applicable.

<sup>1</sup>Based on *A Reason for Visit Classification for Ambulatory Care* (RVC) (10).

<sup>2</sup>Based on 537,298,000 visits made by females.

<sup>3</sup>Based on 368,724,000 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 this visit, according to selected patient and visit characteristics: United States, 2003**

| Selected patient and visit characteristics | Total   | Acute problem | Chronic problem, routine | Chronic problem, flare-up | Pre- or post-surgery | Preventive care <sup>1</sup> | Unknown or blank |
|--|---------|---------------|--------------------------|---------------------------|----------------------|------------------------------|------------------|
| Number of visits in thousands              |         |               |                          |                           |                      |                              |                  |
| All visits . . . . .                       | 906,023 | 323,411       | 288,808                  | 76,074                    | 50,735               | 141,935                      | 25,060           |
| Age  |         |               |                          |                           |                      |                              |                  |
| Under 15 years . . . . .                   | 145,245 | 74,394        | 22,033                   | 7,404                     | 2,603                | 35,355                       | *3,456           |
| 15–24 years . . . . .                      | 72,447  | 30,382        | 13,889                   | 4,457                     | 2,954                | 18,939                       | 1,826            |
| 25–44 years . . . . .                      | 203,553 | 73,808        | 51,492                   | 15,872                    | 13,512               | 42,165                       | *6,702           |
| 45–64 years . . . . .                      | 257,258 | 81,643        | 98,328                   | 25,069                    | 15,279               | 29,350                       | 7,589            |
| 65–74 years . . . . .                      | 106,424 | 31,189        | 47,357                   | 9,537                     | 7,240                | 8,390                        | 2,711            |
| 75 years and over . . . . .                | 121,096 | 31,995        | 55,709                   | 13,736                    | 9,147                | 7,735                        | 2,776            |
| Sex  |         |               |                          |                           |                      |                              |                  |
| Female . . . . .                           | 537,298 | 186,192       | 159,954                  | 44,380                    | 30,838               | 100,220                      | 15,715           |
| Male . . . . .                             | 368,724 | 137,219       | 128,854                  | 31,694                    | 19,897               | 41,715                       | 9,345            |
| Race <sup>2</sup>                          |         |               |                          |                           |                      |                              |                  |
| White . . . . .                            | 777,112 | 276,517       | 248,355                  | 66,836                    | 44,600               | 121,900                      | 18,904           |
| Black or African American . . . . .        | 84,268  | 30,387        | 26,031                   | 7,099                     | 4,487                | 12,404                       | *3,861           |
| Other . . . . .                            | 44,643  | 16,507        | 14,422                   | 2,140                     | 1,649                | 7,631                        | *2,295           |
| Ethnicity <sup>2</sup>                     |         |               |                          |                           |                      |                              |                  |
| Hispanic or Latino . . . . .               | 102,687 | 37,213        | 30,042                   | 6,995                     | 5,059                | 20,364                       | *3,014           |
| Not Hispanic or Latino . . . . .           | 803,335 | 286,198       | 258,766                  | 69,079                    | 45,676               | 121,570                      | 22,046           |
| Primary expected source of payment         |         |               |                          |                           |                      |                              |                  |
| Private insurance . . . . .                | 508,903 | 194,289       | 141,031                  | 41,084                    | 25,152               | 94,121                       | 13,226           |
| Medicaid or SCHIP <sup>3</sup> . . . . .   | 92,191  | 37,803        | 24,478                   | 6,458                     | 3,157                | 18,441                       | 1,854            |
| Medicare . . . . .                         | 206,345 | 57,367        | 92,241                   | 21,425                    | 14,238               | 16,415                       | 4,660            |
| Self-pay, no charge, or charity . . . . .  | 44,197  | 12,892        | 15,665                   | 4,208                     | 4,651                | 5,836                        | 946              |
| Other <sup>4</sup> . . . . .               | 54,387  | 21,061        | 15,393                   | 2,900                     | 3,537                | 7,121                        | 4,375            |
| Standard error in thousands                |         |               |                          |                           |                      |                              |                  |
| All visits . . . . .                       | 34,276  | 14,276        | 15,375                   | 5,993                     | 3,478                | 9,977                        | 5,671            |
| Age  |         |               |                          |                           |                      |                              |                  |
| Under 15 years . . . . .                   | 11,417  | 5,950         | 3,323                    | 980                       | 655                  | 4,205                        | 1,038            |
| 15–24 years . . . . .                      | 4,925   | 2,363         | 1,213                    | 666                       | 402                  | 2,637                        | 378              |
| 25–44 years . . . . .                      | 9,709   | 4,017         | 3,305                    | 2,376                     | 1,481                | 4,359                        | 2,139            |
| 45–64 years . . . . .                      | 11,483  | 4,111         | 6,150                    | 2,552                     | 1,353                | 3,154                        | 2,107            |
| 65–74 years . . . . .                      | 5,422   | 2,480         | 3,045                    | 1,047                     | 781                  | 1,024                        | 591              |
| 75 years and over . . . . .                | 6,962   | 2,606         | 3,764                    | 1,310                     | 1,367                | 1,013                        | 580              |
| Sex  |         |               |                          |                           |                      |                              |                  |
| Female . . . . .                           | 22,053  | 8,832         | 8,837                    | 3,768                     | 2,406                | 8,403                        | 3,494            |
| Male . . . . .                             | 14,819  | 6,434         | 7,390                    | 2,671                     | 1,726                | 3,452                        | 2,316            |
| Race <sup>2</sup>                          |         |               |                          |                           |                      |                              |                  |
| White . . . . .                            | 31,113  | 12,885        | 13,536                   | 5,236                     | 3,138                | 9,165                        | 3,469            |
| Black or African American . . . . .        | 6,708   | 2,994         | 3,004                    | 1,038                     | 787                  | 1,789                        | 1,526            |
| Other . . . . .                            | 7,586   | 3,623         | 2,955                    | 478                       | 403                  | 1,515                        | 1,475            |
| Ethnicity <sup>2</sup>                     |         |               |                          |                           |                      |                              |                  |
| Hispanic or Latino . . . . .               | 13,908  | 6,083         | 5,654                    | 1,070                     | 1,098                | 3,414                        | 1,223            |
| Not Hispanic or Latino . . . . .           | 31,670  | 13,492        | 13,443                   | 5,813                     | 3,327                | 8,324                        | 4,604            |
| Primary expected source of payment         |         |               |                          |                           |                      |                              |                  |
| Private insurance . . . . .                | 22,454  | 9,312         | 9,027                    | 4,772                     | 1,707                | 6,952                        | 3,719            |
| Medicaid or SCHIP <sup>3</sup> . . . . .   | 8,772   | 4,260         | 3,258                    | 997                       | 533                  | 3,128                        | 527              |
| Medicare . . . . .                         | 10,587  | 4,020         | 5,679                    | 1,937                     | 1,768                | 2,068                        | 1,294            |
| Self-pay, no charge, or charity . . . . .  | 4,111   | 1,366         | 2,175                    | 799                       | 1,262                | 2,049                        | 306              |
| Other <sup>4</sup> . . . . .               | 4,830   | 2,195         | 1,589                    | 526                       | 583                  | 1,378                        | 1,018            |

See footnotes at end of table.

**Table 10. Number and percent distribution of office visits with corresponding standard errors by major reason for this visit, according to selected patient and visit characteristics: United States, 2003—Con.**

| Selected patient and visit characteristics | Total | Acute problem | Chronic problem, routine | Chronic problem, flare-up | Pre- or post-surgery | Preventive care <sup>1</sup> | Unknown or blank |
|--|-------|---------------|--------------------------|---------------------------|----------------------|------------------------------|------------------|
|  |       |               |                          | Percent distribution      |                      |                              |                  |
| All visits . . . . .                       | 100.0 | 35.7          | 31.9                     | 8.4                       | 5.6                  | 15.7                         | 2.8              |
| Age  |       |               |                          |                           |                      |                              |                  |
| Under 15 years . . . . .                   | 100.0 | 51.2          | 15.2                     | 5.1                       | 1.8                  | 24.3                         | 2.4              |
| 15–24 years . . . . .                      | 100.0 | 41.9          | 19.2                     | 6.2                       | 4.1                  | 26.1                         | 2.5              |
| 25–44 years . . . . .                      | 100.0 | 36.3          | 25.3                     | 7.8                       | 6.6                  | 20.7                         | *3.3             |
| 45–64 years . . . . .                      | 100.0 | 31.7          | 38.2                     | 9.7                       | 5.9                  | 11.4                         | 3.0              |
| 65–74 years . . . . .                      | 100.0 | 29.3          | 44.5                     | 9.0                       | 6.8                  | 7.9                          | 2.5              |
| 75 years and over . . . . .                | 100.0 | 26.4          | 46.0                     | 11.3                      | 7.6                  | 6.4                          | 2.3              |
| Sex  |       |               |                          |                           |                      |                              |                  |
| Female . . . . .                           | 100.0 | 34.7          | 29.8                     | 8.3                       | 5.7                  | 18.7                         | 2.9              |
| Male . . . . .                             | 100.0 | 37.2          | 34.9                     | 8.6                       | 5.4                  | 11.3                         | 2.5              |
| Race <sup>2</sup>                          |       |               |                          |                           |                      |                              |                  |
| White . . . . .                            | 100.0 | 35.6          | 32.0                     | 8.6                       | 5.7                  | 15.7                         | 2.4              |
| Black or African American . . . . .        | 100.0 | 36.1          | 30.9                     | 8.4                       | 5.3                  | 14.7                         | *4.6             |
| Other . . . . .                            | 100.0 | 37.0          | 32.3                     | 4.8                       | 3.7                  | 17.1                         | *5.1             |
| Ethnicity <sup>2</sup>                     |       |               |                          |                           |                      |                              |                  |
| Hispanic or Latino . . . . .               | 100.0 | 36.2          | 29.3                     | 6.8                       | 4.9                  | 19.8                         | *2.9             |
| Not Hispanic or Latino . . . . .           | 100.0 | 35.6          | 32.2                     | 8.6                       | 5.7                  | 15.1                         | 2.7              |
| Primary expected source of payment         |       |               |                          |                           |                      |                              |                  |
| Private insurance . . . . .                | 100.0 | 38.2          | 27.7                     | 8.1                       | 4.9                  | 18.5                         | 2.6              |
| Medicaid or SCHIP <sup>3</sup> . . . . .   | 100.0 | 41.0          | 26.6                     | 7.0                       | 3.4                  | 20.0                         | 2.0              |
| Medicare . . . . .                         | 100.0 | 27.8          | 44.7                     | 10.4                      | 6.9                  | 8.0                          | 2.3              |
| Self-pay, no charge, or charity . . . . .  | 100.0 | 29.2          | 35.4                     | 9.5                       | 10.5                 | 13.2                         | 2.1              |
| Other <sup>4</sup> . . . . .               | 100.0 | 38.7          | 28.3                     | 5.3                       | 6.5                  | 13.1                         | 8.0              |
|  |       |               |                          | Standard error of percent |                      |                              |                  |
| All visits . . . . .                       | ...   | 0.9           | 1.3                      | 0.5                       | 0.4                  | 0.9                          | 0.6              |
| Age  |       |               |                          |                           |                      |                              |                  |
| Under 15 years . . . . .                   | ...   | 1.9           | 1.9                      | 0.6                       | 0.4                  | 1.9                          | 0.7              |
| 15–24 years . . . . .                      | ...   | 1.7           | 1.8                      | 0.8                       | 0.5                  | 2.5                          | 0.5              |
| 25–44 years . . . . .                      | ...   | 1.5           | 1.4                      | 1.0                       | 0.7                  | 1.7                          | 1.0              |
| 45–64 years . . . . .                      | ...   | 1.2           | 1.6                      | 0.8                       | 0.5                  | 1.1                          | 0.8              |
| 65–74 years . . . . .                      | ...   | 1.6           | 1.7                      | 0.8                       | 0.7                  | 0.9                          | 0.6              |
| 75 years and over . . . . .                | ...   | 1.5           | 1.8                      | 0.8                       | 1.0                  | 0.8                          | 0.5              |
| Sex  |       |               |                          |                           |                      |                              |                  |
| Female . . . . .                           | ...   | 1.0           | 1.3                      | 0.6                       | 0.4                  | 1.2                          | 0.6              |
| Male . . . . .                             | ...   | 1.1           | 1.5                      | 0.6                       | 0.4                  | 0.8                          | 0.6              |
| Race <sup>2</sup>                          |       |               |                          |                           |                      |                              |                  |
| White . . . . .                            | ...   | 0.9           | 1.3                      | 0.5                       | 0.4                  | 0.9                          | 0.4              |
| Black or African American . . . . .        | ...   | 2.1           | 2.7                      | 1.1                       | 0.9                  | 1.8                          | 1.7              |
| Other . . . . .                            | ...   | 3.8           | 4.2                      | 1.1                       | 1.1                  | 2.9                          | 2.8              |
| Ethnicity <sup>2</sup>                     |       |               |                          |                           |                      |                              |                  |
| Hispanic or Latino . . . . .               | ...   | 2.6           | 3.1                      | 0.7                       | 1.0                  | 2.7                          | 1.2              |
| Not Hispanic or Latino . . . . .           | ...   | 0.9           | 1.2                      | 0.6                       | 0.4                  | 0.8                          | 0.6              |
| Primary expected source of payment         |       |               |                          |                           |                      |                              |                  |
| Private insurance . . . . .                | ...   | 1.1           | 1.4                      | 0.8                       | 0.3                  | 1.0                          | 0.7              |
| Medicaid or SCHIP <sup>3</sup> . . . . .   | ...   | 2.3           | 2.5                      | 1.0                       | 0.6                  | 2.6                          | 0.6              |
| Medicare . . . . .                         | ...   | 1.3           | 1.7                      | 0.8                       | 0.7                  | 0.9                          | 0.6              |
| Self-pay, no charge, or charity . . . . .  | ...   | 2.8           | 3.6                      | 1.6                       | 2.7                  | 4.2                          | 0.7              |
| Other <sup>4</sup> . . . . .               | ...   | 2.2           | 2.4                      | 0.8                       | 1.1                  | 1.8                          | 1.7              |

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

... Category not applicable.

<sup>1</sup>Preventive care includes prenatal, general medical, well-baby, and screening or insurance examinations.<sup>2</sup>“Other” race includes visits by Asians, Native Hawaiians or other Pacific Islanders, American Indians or Alaska Natives, and multiple races. All race categories include visits by 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.<sup>3</sup>SCHIP is State Children's Health Insurance Program.<sup>4</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 percent of visits to primary care specialists with corresponding standard errors, by selected patient and visit characteristics: United States, 2003**

| 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 | Percent of preventive care visits made to primary care specialists | Standard error of percent |
|---|-------------------------------|-----------------------------|----------------------|---------------------------|--|------------------------|--|---------------------------|
| All preventive care visits <sup>2</sup> . . . . . | 141,935                       | 9,977                       | 100.0                | ...                       | 49.7   | 3.5                    | 87.8   | 2.2                       |
| Age   |                               |                             |                      |                           |  |                        |  |                           |
| Less than 15 years . . . . .                      | 35,355                        | 4,205                       | 24.9                 | 2.6                       | 58.3   | 6.9                    | 98.1   | 0.8                       |
| 15–24 years . . . . .                             | 18,939                        | 2,637                       | 13.3                 | 1.4                       | 47.2   | 6.6                    | 95.5   | 1.4                       |
| 25–44 years . . . . .                             | 42,165                        | 4,359                       | 29.7                 | 1.9                       | 51.3   | 5.3                    | 90.7   | 3.0                       |
| 45–64 years . . . . .                             | 29,350                        | 3,154                       | 20.7                 | 1.8                       | 43.0   | 4.6                    | 79.9   | 3.3                       |
| 65–74 years . . . . .                             | 8,390                         | 1,024                       | 5.9                  | 0.6                       | 46.4   | 5.7                    | 67.9   | 7.0                       |
| 75 years and over . . . . .                       | 7,735                         | 1,013                       | 5.4                  | 0.7                       | 47.8   | 6.3                    | 58.8   | 6.6                       |
| Sex and age                                       |                               |                             |                      |                           |  |                        |  |                           |
| Female . . . . .                                  | 100,220                       | 8,403                       | 70.6                 | 2.1                       | 68.6   | 5.8                    | 89.2   | 2.5                       |
| Under 15 years . . . . .                          | 16,353                        | 1,844                       | 11.5                 | 1.2                       | 55.2   | 6.2                    | 98.0   | 0.8                       |
| 15–24 years . . . . .                             | 16,163                        | 2,558                       | 11.4                 | 1.4                       | 81.3   | 12.9                   | 97.2   | 1.5                       |
| 25–44 years . . . . .                             | 36,879                        | 4,204                       | 26.0                 | 2.0                       | 88.6   | 10.1                   | 92.2   | 2.9                       |
| 45–64 years . . . . .                             | 19,925                        | 2,414                       | 14.0                 | 1.4                       | 56.7   | 6.9                    | 82.3   | 3.9                       |
| 65–74 years . . . . .                             | 5,483                         | 803                         | 3.9                  | 0.5                       | 55.6   | 8.1                    | 72.3   | 7.3                       |
| 75 years and over . . . . .                       | 5,416                         | 830                         | 3.8                  | 0.5                       | 54.6   | 8.4                    | 60.0   | 7.0                       |
| Male . . . . .                                    | 41,715                        | 3,452                       | 29.4                 | 2.1                       | 29.9   | 2.5                    | 84.7   | 2.7                       |
| Under 15 years . . . . .                          | 19,001                        | 2,609                       | 13.4                 | 1.7                       | 61.2   | 8.4                    | 98.1   | 0.9                       |
| 15–24 years . . . . .                             | 2,777                         | 563                         | 2.0                  | 0.4                       | 13.7   | 2.8                    | 85.7   | 4.2                       |
| 25–44 years . . . . .                             | 5,286                         | 713                         | 3.7                  | 0.5                       | 13.0   | 1.8                    | 80.1   | 7.7                       |
| 45–64 years . . . . .                             | 9,426                         | 1,312                       | 6.6                  | 0.9                       | 28.5   | 4.0                    | 74.6   | 5.2                       |
| 65–74 years . . . . .                             | 2,907                         | 430                         | 2.0                  | 0.3                       | 35.3   | 5.2                    | 59.7   | 8.2                       |
| 75 years and over . . . . .                       | 2,319                         | 451                         | 1.6                  | 0.3                       | 37.0   | 7.2                    | 55.9   | 9.7                       |
| Race <sup>3</sup>                                 |                               |                             |                      |                           |  |                        |  |                           |
| White . . . . .                                   | 121,900                       | 9,165                       | 85.9                 | 1.7                       | 52.9   | 4.0                    | 86.9   | 2.5                       |
| Black or African American . . . . .               | 12,404                        | 1,789                       | 8.7                  | 1.2                       | 34.7   | 5.0                    | 93.8   | 2.0                       |
| Other . . . . .                                   | 7,631                         | 1,515                       | 5.4                  | 1.0                       | 39.5   | 7.8                    | 93.7   | 3.1                       |
| Ethnicity <sup>3</sup>                            |                               |                             |                      |                           |  |                        |  |                           |
| Hispanic or Latino . . . . .                      | 20,364                        | 3,414                       | 14.3                 | 2.0                       | 51.7   | 8.7                    | 96.3   | 1.6                       |
| Not Hispanic or Latino . . . . .                  | 121,570                       | 8,324                       | 85.7                 | 2.0                       | 49.4   | 3.4                    | 86.4   | 2.5                       |
| Primary expected source of payment                |                               |                             |                      |                           |  |                        |  |                           |
| Private insurance . . . . .                       | 94,121                        | 6,952                       | 66.3                 | 2.5                       | 48.9   | 3.6                    | 89.8   | 2.1                       |
| Medicaid or SCHIP <sup>4</sup> . . . . .          | 18,441                        | 3,128                       | 13.0                 | 1.9                       | 61.3   | 10.4                   | 97.5   | 0.9                       |
| Medicare . . . . .                                | 16,415                        | 2,068                       | 11.6                 | 1.2                       | 46.5   | 5.9                    | 66.1   | 6.6                       |
| Self-pay, no charge, or charity . . . . .         | *5,836                        | 2,049                       | *4.1                 | 1.4                       | *14.1  | 5.0                    | 91.0   | 3.9                       |
| Other <sup>5</sup> . . . . .                      | 7,121                         | 1,378                       | 5.0                  | 0.9                       | ...  | ...                    | 84.8   | 6.4                       |

... Category not applicable.

<sup>1</sup>Visit rates for age, sex, race, and ethnicity are based on U.S. Census Bureau estimates of the civilian noninstitutional population of the United States as of July 1, 2003. These population estimates reflect Census 2000 and are available from the U.S. Census Bureau. See "Technical Notes" for more detail.

<sup>2</sup>Preventive care includes prenatal, general medical, well-baby, and screening or insurance examinations.

<sup>3</sup>"Other" race includes visits by Asian, Native Hawaiian or other Pacific Islander, American Indian or Alaska Native, and multiple races. All race categories include visits by persons of Hispanic origin 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. However, the percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race. See "Technical Notes" for more details.

<sup>4</sup>SCHIP is State Children's Health Insurance Program.

<sup>5</sup>"Other" includes worker's compensation, unknown or blank, and payments not classified elsewhere.



**Table 12. Number and percent distribution of office visits with corresponding standard errors, by physician's primary diagnosis: United States, 2003**

| 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 . . . . .   | 906,023                       | 34,276                      | 100.0                | . . .                     |
| Infectious and parasitic diseases . . . . . 001-139                                  | 25,908                        | 3,226                       | 2.9                  | 0.3                       |
| Neoplasms. . . . . 140-239   | 26,257                        | 2,910                       | 2.9                  | 0.3                       |
| Endocrine, nutritional, metabolic diseases, and immunity disorders . . . . . 240-279 | 47,784                        | 4,414                       | 5.3                  | 0.4                       |
| Mental disorders . . . . . 290-319   | 45,543                        | 3,676                       | 5.0                  | 0.4                       |
| Diseases of the nervous system and sense organs. . . . . 320-389                     | 85,556                        | 6,029                       | 9.4                  | 0.6                       |
| Diseases of the circulatory system . . . . . 390-459                                 | 70,681                        | 4,997                       | 7.8                  | 0.5                       |
| Diseases of the respiratory system . . . . . 460-519                                 | 114,526                       | 9,265                       | 12.6                 | 0.9                       |
| Diseases of the digestive system . . . . . 520-579                                   | 33,934                        | 3,012                       | 3.7                  | 0.3                       |
| Diseases of the genitourinary system . . . . . 580-629                               | 42,649                        | 3,448                       | 4.7                  | 0.3                       |
| Diseases of the skin and subcutaneous tissue. . . . . 680-709                        | 38,966                        | 2,743                       | 4.3                  | 0.3                       |
| Diseases of the musculoskeletal system and connective tissue . . . . . 710-739       | 73,474                        | 6,495                       | 8.1                  | 0.6                       |
| Symptoms, signs, and ill-defined conditions . . . . . 780-799                        | 58,681                        | 3,373                       | 6.5                  | 0.3                       |
| Injury and poisoning . . . . . 800-999   | 44,845                        | 3,713                       | 4.9                  | 0.4                       |
| Supplementary classification. . . . . V01-V82  | 158,239                       | 10,597                      | 17.5                 | 0.9                       |
| All other diagnoses <sup>2</sup> . . . . .   | 23,669                        | 2,438                       | 2.6                  | 0.3                       |
| Unknown <sup>3</sup> . . . . .   | 15,310                        | 1,850                       | 1.7                  | 0.2                       |

. . . Category not applicable.

<sup>1</sup>Based on the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD-9-CM) (11).

<sup>2</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); and certain conditions originating in the perinatal period (760-779).

<sup>3</sup>Includes blank diagnoses, uncodable diagnoses, and illegible 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, 2003**

| 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 . . . . .  | 906,023                       | 34,276                      | 100.0                | ...                       | 100.0                | ...                       | 100.0                | ...                       |
| Essential hypertension . . . . . 401  | 35,023                        | 3,180                       | 3.9                  | 0.3                       | 3.6                  | 0.4                       | 4.3                  | 0.4                       |
| Acute upper respiratory infections, excluding pharyngitis . . . . . 460–461,463–466   | 33,527                        | 3,506                       | 3.7                  | 0.3                       | 3.6                  | 0.4                       | 3.9                  | 0.4                       |
| Routine infant or child health check . . . . . V20.2                                  | 29,661                        | 3,716                       | 3.3                  | 0.4                       | 2.5                  | 0.3                       | 4.4                  | 0.6                       |
| Arthropathies and related disorders . . . . . 710–719                                 | 28,921                        | 3,973                       | 3.2                  | 0.4                       | 3.6                  | 0.5                       | 2.6                  | 0.3                       |
| Diabetes mellitus . . . . . 250   | 23,144                        | 2,710                       | 2.6                  | 0.3                       | 2.2                  | 0.3                       | 3.1                  | 0.3                       |
| Normal pregnancy . . . . . V22  | 22,940                        | 3,587                       | 2.5                  | 0.4                       | 4.3                  | 0.6                       | *                    | ...                       |
| Spinal disorders . . . . . 720–724  | 20,985                        | 2,300                       | 2.3                  | 0.2                       | 2.1                  | 0.3                       | 2.7                  | 0.3                       |
| General medical examination . . . . . V70   | 19,292                        | 3,193                       | 2.1                  | 0.3                       | 2.0                  | 0.5                       | 2.4                  | 0.4                       |
| Rheumatism, excluding back . . . . . 725–729  | 17,923                        | 1,810                       | 2.0                  | 0.2                       | 2.2                  | 0.2                       | 1.7                  | 0.2                       |
| Otitis media and eustachian tube disorders . . . . . 381–382                          | 17,267                        | 1,645                       | 1.9                  | 0.2                       | 1.5                  | 0.2                       | 2.5                  | 0.3                       |
| Malignant neoplasms . . . . . 140–208,230–234   | 16,368                        | 2,363                       | 1.8                  | 0.3                       | 1.5                  | 0.3                       | 2.3                  | 0.3                       |
| Gynecological examination . . . . . V72.3   | 15,944                        | 2,752                       | 1.8                  | 0.3                       | 3.0                  | 0.5                       | *                    | ...                       |
| Allergic rhinitis . . . . . 477   | 15,220                        | 4,341                       | 1.7                  | 0.5                       | 1.5                  | 0.4                       | 1.9                  | 0.6                       |
| Chronic sinusitis . . . . . 473   | 14,895                        | 1,365                       | 1.6                  | 0.1                       | 1.6                  | 0.2                       | 1.7                  | 0.2                       |
| Asthma . . . . . 493  | 12,855                        | 1,932                       | 1.4                  | 0.2                       | 1.3                  | 0.2                       | 1.5                  | 0.2                       |
| Heart disease, excluding ischemic . . . . . 391–392.0,393–398,402,404,415–416,420–429 | 12,050                        | 1,240                       | 1.3                  | 0.1                       | 1.2                  | 0.2                       | 1.5                  | 0.2                       |
| Potential health hazards related to personal and family history . . . . . V10–V19     | 11,588                        | 1,366                       | 1.3                  | 0.2                       | 1.3                  | 0.2                       | 1.2                  | 0.2                       |
| Chronic and unspecified bronchitis . . . . . 490–491                                  | 10,662                        | 1,380                       | 1.2                  | 0.1                       | 1.1                  | 0.2                       | 1.3                  | 0.2                       |
| Acute pharyngitis . . . . . 462   | 10,135                        | 1,398                       | 1.1                  | 0.1                       | 1.1                  | 0.2                       | 1.2                  | 0.2                       |
| Benign neoplasms . . . . . 210–229,235–239  | 9,889                         | 988                         | 1.1                  | 0.1                       | 1.1                  | 0.1                       | 1.1                  | 0.1                       |
| All other diagnoses . . . . .   | 527,735                       | 19,722                      | 58.2                 | 0.9                       | 57.9                 | 1.1                       | 58.7                 | 1.0                       |

... Category not applicable.

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

<sup>1</sup>Based on the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) (11). 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 537,298,000 visits made by females.

<sup>3</sup>Based on 368,724,000 visits made by males.

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

**Table 14. Number and percent distribution of office visits with corresponding standard errors by patient's age, according to the five leading primary diagnosis groups: United States, 2003**

| 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 | Number of visits per 100 persons per year <sup>2</sup> | Standard error of rate |
|---|-------------------------------|-----------------------------|----------------------|---------------------------|--|------------------------|
| All visits . . . . .  | 906,023                       | 34,276                      | 100.0                | ...                       | 317.3  | 12.0                   |
| Under 1 year  |                               |                             |                      |                           |  |                        |
| All visits . . . . .  | 26,514                        | 3,023                       | 100.0                | ...                       | 662.9  | 75.6                   |
| Routine infant or child health check . . . . . V20.2                                  | 11,004                        | 1,731                       | 41.5                 | 3.1                       | 275.1  | 43.3                   |
| Acute upper respiratory infections, excluding pharyngitis . . . . . 460–461,463–466   | 3,224                         | 583                         | 12.2                 | 1.8                       | 80.6   | 14.6                   |
| Otitis media and eustachian tube disorders . . . . . 381–382                          | 2,223                         | 404                         | 8.4                  | 1.4                       | 55.6   | 10.1                   |
| Certain conditions originating in the perinatal period . . . . . 760–779              | *                             | ...                         | *                    | ...                       | *  | ...                    |
| Congenital anomalies . . . . . 740–759  | *569                          | 209                         | *2.1                 | 0.8                       | 14.2   | 5.2                    |
| All other diagnoses . . . . .   | 8,703                         | 947                         | 32.8                 | 2.5                       | 217.6  | 23.7                   |
| 1–12 years  |                               |                             |                      |                           |  |                        |
| All visits . . . . .  | 104,638                       | 8,200                       | 100.0                | ...                       | 217.2  | 17.0                   |
| Routine infant or child health check . . . . . V20.2                                  | 15,593                        | 2,029                       | 14.9                 | 1.6                       | 32.4   | 4.2                    |
| Otitis media and eustachian tube disorders . . . . . 381–382                          | 10,455                        | 1,264                       | 10.0                 | 0.9                       | 21.7   | 2.6                    |
| Acute upper respiratory infections, excluding pharyngitis . . . . . 460–461,463–466   | 9,655                         | 1,195                       | 9.2                  | 0.9                       | 20.0   | 2.5                    |
| Acute pharyngitis . . . . . 462   | 4,181                         | 768                         | 4.0                  | 0.7                       | 8.7  | 1.6                    |
| Asthma . . . . . 493  | 4,095                         | 831                         | 3.9                  | 0.7                       | 8.5  | 1.7                    |
| All other diagnoses . . . . .   | 60,659                        | 5,056                       | 58.0                 | 1.8                       | 125.9  | 10.5                   |
| 13–21 years   |                               |                             |                      |                           |  |                        |
| All visits . . . . .  | 65,101                        | 4,414                       | 100.0                | ...                       | 177.7  | 12.0                   |
| Normal pregnancy . . . . . V22  | 4,511                         | 1,120                       | 6.9                  | 1.5                       | <sup>3</sup> 25.0                                      | 6.2                    |
| Acute upper respiratory infections, excluding pharyngitis . . . . . 460–461,463–466   | 3,709                         | 778                         | 5.7                  | 1.0                       | 10.1   | 2.1                    |
| Routine infant or child health check . . . . . V20.2                                  | 3,063                         | 630                         | 4.7                  | 0.9                       | 8.4  | 1.7                    |
| Acne . . . . . 706.0–706.1  | 2,764                         | 374                         | 4.2                  | 0.6                       | 7.5  | 1.0                    |
| Chronic sinusitis . . . . . 473   | 1,982                         | 428                         | 3.0                  | 0.7                       | 5.4  | 1.2                    |
| All other diagnoses . . . . .   | 49,072                        | 3,226                       | 75.4                 | 1.8                       | 133.9  | 8.8                    |
| 22–49 years   |                               |                             |                      |                           |  |                        |
| All visits . . . . .  | 296,307                       | 13,389                      | 100.0                | ...                       | 256.0  | 11.6                   |
| Normal pregnancy . . . . . V22  | 18,429                        | 2,813                       | 6.2                  | 0.8                       | <sup>4</sup> 31.4                                      | 4.8                    |
| General medical examination . . . . . V70   | 10,079                        | 1,759                       | 3.4                  | 0.6                       | 8.7  | 1.5                    |
| Gynecological examination . . . . . V72.3   | 9,996                         | 1,705                       | 3.4                  | 0.5                       | <sup>4</sup> 17.04                                     | 2.9                    |
| Acute upper respiratory infections, excluding pharyngitis . . . . . 460–461,463–466   | 9,503                         | 1,475                       | 3.2                  | 0.4                       | 8.2  | 1.3                    |
| Spinal disorders . . . . . 720–724  | 8,588                         | 1,049                       | 2.9                  | 0.3                       | 7.4  | 0.9                    |
| All other diagnoses . . . . .   | 239,712                       | 10,334                      | 80.9                 | 1.3                       | 207.1  | 8.9                    |
| 50–64 years   |                               |                             |                      |                           |  |                        |
| All visits . . . . .  | 185,942                       | 8,531                       | 100.0                | ...                       | 398.5  | 18.3                   |
| Essential hypertension . . . . . 401  | 11,354                        | 1,336                       | 6.1                  | 0.6                       | 24.3   | 2.9                    |
| Arthropathies and related disorders . . . . . 710–719                                 | 9,221                         | 1,610                       | 5.0                  | 0.8                       | 19.8   | 3.5                    |
| Diabetes mellitus . . . . . 250   | 8,426                         | 1,023                       | 4.5                  | 0.5                       | 18.1   | 2.2                    |
| Rheumatism, excluding back . . . . . 725–729  | 6,307                         | 773                         | 3.4                  | 0.4                       | 13.5   | 1.7                    |
| Spinal disorders . . . . . 720–724  | 5,983                         | 855                         | 3.2                  | 0.5                       | 12.8   | 1.8                    |
| All other diagnoses . . . . .   | 144,651                       | 6,619                       | 77.8                 | 1.2                       | 310.0  | 14.2                   |
| 65 years and over   |                               |                             |                      |                           |  |                        |
| All visits . . . . .  | 227,520                       | 11,404                      | 100.0                | ...                       | 663.7  | 33.3                   |
| Essential hypertension . . . . . 401  | 17,328                        | 1,860                       | 7.6                  | 0.7                       | 50.6   | 5.4                    |
| Arthropathies and related disorders . . . . . 710–719                                 | 10,925                        | 1,409                       | 4.8                  | 0.5                       | 31.9   | 4.1                    |
| Diabetes mellitus . . . . . 250   | 10,142                        | 1,558                       | 4.5                  | 0.6                       | 29.6   | 4.5                    |
| Malignant neoplasms . . . . . 140–208,230–234   | 9,165                         | 1,160                       | 4.0                  | 0.5                       | 26.7   | 3.4                    |
| Heart disease, excluding ischemic . . . . . 391–392.0,393–398,402,404,415–416,420–429 | 7,479                         | 789                         | 3.3                  | 0.3                       | 21.8   | 2.3                    |
| All other diagnoses . . . . .   | 172,482                       | 8,632                       | 75.8                 | 1.1                       | 503.2  | 25.2                   |

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

... Category not applicable.

<sup>1</sup>Based on the *International Classification of Diseases, 9th Revision, Clinical Modification* (ICD–9–CM) (11). However, certain codes have been combined in this table to form larger categories.<sup>2</sup>Visit rates by age are based on the July 1, 2003, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau. These population estimates reflect Census 2000 data and are available from the U.S. Census Bureau. See "Technical Notes" for more details.<sup>3</sup>Number of visits (numerator) and population estimate (denominator) include females 13–21 years of age.<sup>4</sup>Number of visits (numerator) and population estimate (denominator) include females 22–49 years of age.

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

**Table 15. Number, percent distribution, and annual rate of injury-related office visits with corresponding standard errors, by selected patient characteristics: United States, 2003**

| Patient 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 . . . . . | 99,927                        | 6,219                       | 100.0                | ...                       | 35.0   | 2.2                    |
| Age                                 |                               |                             |                      |                           |  |                        |
| Under 15 years . . . . .            | 13,096                        | 1,272                       | 13.1                 | 1.1                       | 21.6   | 2.1                    |
| 15–24 . . . . .                     | 10,723                        | 1,097                       | 10.7                 | 0.9                       | 26.7   | 2.7                    |
| 25–44 . . . . .                     | 26,709                        | 2,245                       | 26.7                 | 1.3                       | 32.5   | 2.7                    |
| 45–64 . . . . .                     | 29,068                        | 2,412                       | 29.1                 | 1.2                       | 42.6   | 3.5                    |
| 65–74 . . . . .                     | 9,998                         | 1,047                       | 10.0                 | 0.8                       | 55.3   | 5.8                    |
| 75 years and over . . . . .         | 10,332                        | 1,325                       | 10.3                 | 1.3                       | 63.8   | 8.2                    |
| Sex and age                         |                               |                             |                      |                           |  |                        |
| Female . . . . .                    | 55,049                        | 3,530                       | 55.1                 | 1.3                       | 37.7   | 2.4                    |
| Under 15 years . . . . .            | 6,586                         | 743                         | 6.6                  | 0.7                       | 22.2   | 2.5                    |
| 15–24 . . . . .                     | 4,566                         | 626                         | 4.6                  | 0.6                       | 23.0   | 3.2                    |
| 25–44 . . . . .                     | 15,084                        | 1,377                       | 15.1                 | 1.0                       | 36.2   | 3.3                    |
| 45–64 . . . . .                     | 16,590                        | 1,494                       | 16.6                 | 1.0                       | 47.2   | 4.3                    |
| 65–74 . . . . .                     | 5,409                         | 752                         | 5.4                  | 0.6                       | 54.9   | 7.6                    |
| 75 years and over . . . . .         | 6,815                         | 1,063                       | 6.8                  | 1.1                       | 68.7   | 10.7                   |
| Male . . . . .                      | 44,877                        | 3,211                       | 44.9                 | 1.3                       | 32.2   | 2.3                    |
| Under 15 years . . . . .            | 6,510                         | 766                         | 6.5                  | 0.7                       | 21.0   | 2.5                    |
| 15–24 . . . . .                     | 6,157                         | 826                         | 6.2                  | 0.7                       | 30.4   | 4.1                    |
| 25–44 . . . . .                     | 11,625                        | 1,252                       | 11.6                 | 0.9                       | 28.6   | 3.1                    |
| 45–64 . . . . .                     | 12,478                        | 1,196                       | 12.5                 | 0.8                       | 37.7   | 3.6                    |
| 65–74 . . . . .                     | 4,590                         | 553                         | 4.6                  | 0.5                       | 55.7   | 6.7                    |
| 75 years and over . . . . .         | 3,517                         | 460                         | 3.5                  | 0.4                       | 56.1   | 7.3                    |
| Race <sup>2</sup>                   |                               |                             |                      |                           |  |                        |
| White . . . . .                     | 88,180                        | 5,737                       | 88.2                 | 1.1                       | 38.3   | 2.5                    |
| Black or African American . . . . . | 8,049                         | 888                         | 8.1                  | 0.7                       | 22.5   | 2.5                    |
| Other . . . . .                     | 3,698                         | 814                         | 3.7                  | 0.8                       | 19.1   | 4.2                    |
| Ethnicity <sup>2</sup>              |                               |                             |                      |                           |  |                        |
| Hispanic or Latino . . . . .        | 9,257                         | 1,083                       | 9.3                  | 1.1                       | 23.5   | 2.8                    |
| Not Hispanic or Latino . . . . .    | 90,670                        | 5,999                       | 90.7                 | 1.1                       | 36.8   | 2.4                    |

... Category not applicable.

<sup>1</sup>Visit rates for age, sex, race, and ethnicity are based on the July 1, 2003, set of estimates of the civilian noninstitutional population of the United States as developed by the Population Division, U.S. Census Bureau. These population estimates reflect Census 2000 data and are available from the Census Bureau. See "Technical Notes" for more details.

<sup>2</sup>"Other" race includes visits by Asians, Native Hawaiians or other Pacific Islanders, American Indians or Alaska Natives, and multiple races. All race categories include visits by 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. However, the percent of visit records with multiple races indicated is small and lower than what is typically found for self-reported race. See "Technical Notes" for more details.

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

**Table 16. Number and percent distribution of injury-related office visits with corresponding standard errors, by intent and mechanism of external cause: United States, 2003**

| Intent and mechanism <sup>1</sup>                                     | Number of visits in thousands | Standard error in thousands | Percent distribution | Standard error of percent |
|---|-------------------------------|-----------------------------|----------------------|---------------------------|
| All injury related visits . . . . .                                   | 99,927                        | 6,219                       | 100.0                | ...                       |
| Unintentional injuries . . . . .                                      | 55,334                        | 4,481                       | 55.4                 | 2.0                       |
| Falls . . . . .   | 11,705                        | 1,320                       | 11.7                 | 1.0                       |
| Overexertion and strenuous movements . . . . .                        | 7,155                         | 966                         | 7.2                  | 0.8                       |
| Motor vehicle traffic . . . . .                                       | 6,011                         | 859                         | 6.0                  | 0.7                       |
| Struck against or struck accidentally by objects or persons . . . . . | 5,228                         | 725                         | 5.2                  | 0.6                       |
| Natural and environmental factors . . . . .                           | 3,808                         | 493                         | 3.8                  | 0.5                       |
| Cutting or piercing instruments or objects . . . . .                  | 1,982                         | 405                         | 2.0                  | 0.4                       |
| Other and not elsewhere classified <sup>2</sup> . . . . .             | 14,959                        | 1,526                       | 15.0                 | 1.0                       |
| Mechanism unspecified . . . . .                                       | 4,485                         | 758                         | 4.5                  | 0.7                       |
| Intentional injuries <sup>3</sup> . . . . .                           | 946                           | 233                         | 0.9                  | 0.2                       |
| Injuries of undetermined intent . . . . .                             | *                             | ...                         | *                    | ...                       |
| Adverse effects of medical treatment. . . . .                         | 7,986                         | 933                         | 8.0                  | 0.9                       |
| Blank cause <sup>4</sup> . . . . .                                    | 35,228                        | 2,581                       | 35.3                 | 1.9                       |

... Category not applicable.

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

<sup>1</sup>Based on the "Supplementary Classification of External Cause of Injury and Poisoning," *International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) (11)*. A detailed description of the ICD-9-CM E-codes used to create the groupings in this table is provided in the "Technical Notes."

<sup>2</sup>Includes suffocation, poisoning, other transportation, machinery, firearm, fire and flames, drowning or submersion, nontraffic motor vehicle, and pedal cycle.

<sup>3</sup>Includes assault, self-inflicted, and other causes of violence.

<sup>4</sup>Includes illegible entries and blanks.

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

**Table 17. Number and percent of office visits with corresponding standard errors, by diagnostic and screening services ordered or provided and patient's sex: United States, 2003**

| Diagnostic and screening services ordered or provided          | Number of visits in thousands <sup>1</sup> | 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 . . . . .   | 906,023                                    | 34,276                      | ...               | ...                       | ...                 | ...                       | ...               | ...                       |
| One or more diagnostic and screening services listed . . . . . | 776,815                                    | 30,243                      | 85.7              | 1.1                       | 85.9                | 1.2                       | 85.5              | 1.2                       |
| None . . . . .   | 118,346                                    | 11,164                      | 13.1              | 1.1                       | 13.1                | 1.2                       | 13.0              | 1.2                       |
| Blank . . . . .  | 10,861                                     | 2,729                       | 1.2               | 0.3                       | 1.0                 | 0.3                       | 1.5               | 0.4                       |
| Examinations   |  |                             |                   |                           |                     |                           |                   |                           |
| General medical examination . . . . .                          | 456,194                                    | 21,270                      | 50.4              | 1.7                       | 48.8                | 1.7                       | 52.6              | 1.8                       |
| Other examination . . . . .                                    | 212,472                                    | 14,236                      | 23.5              | 1.3                       | 25.5                | 1.4                       | 20.4              | 1.5                       |
| Vital signs  |  |                             |                   |                           |                     |                           |                   |                           |
| Temperature . . . . .  | 272,817                                    | 20,428                      | 30.1              | 1.8                       | 29.0                | 1.8                       | 31.7              | 2.1                       |
| Blood pressure . . . . .                                       | 474,514                                    | 25,144                      | 52.4              | 1.7                       | 55.2                | 1.8                       | 48.2              | 1.7                       |
| Diagnostic tests   |  |                             |                   |                           |                     |                           |                   |                           |
| EKG <sup>4</sup> . . . . .                                     | 26,960                                     | 2,957                       | 3.0               | 0.3                       | 2.3                 | 0.3                       | 3.9               | 0.5                       |
| Any scope procedure . . . . .                                  | 22,795                                     | 3,119                       | 2.5               | 0.4                       | 2.6                 | 0.4                       | 2.4               | 0.4                       |
| Sigmoidoscopy or colonoscopy . . . . .                         | 11,025                                     | 2,413                       | 1.2               | 0.3                       | 1.3                 | 0.3                       | 1.1               | 0.3                       |
| Endoscopy . . . . .  | 7,920                                      | 1,156                       | 0.9               | 0.1                       | 0.9                 | 0.1                       | 0.8               | 0.2                       |
| Cystoscopy . . . . .   | 2,088                                      | 303                         | 0.2               | 0.0                       | 0.2                 | 0.0                       | 0.3               | 0.1                       |
| Laboratory tests   |  |                             |                   |                           |                     |                           |                   |                           |
| CBC <sup>5</sup> . . . . .                                     | 85,988                                     | 6,850                       | 9.5               | 0.7                       | 9.2                 | 0.7                       | 9.9               | 0.9                       |
| Urinalysis . . . . .   | 78,202                                     | 7,068                       | 8.6               | 0.7                       | 9.7                 | 0.9                       | 7.0               | 0.6                       |
| Lipids or cholesterol . . . . .                                | 58,699                                     | 5,535                       | 6.5               | 0.6                       | 5.5                 | 0.5                       | 7.8               | 0.8                       |
| PSA <sup>6</sup> . . . . .                                     | 14,196                                     | 1,724                       | 1.6               | 0.2                       | ...                 | ...                       | 3.8               | 0.4                       |
| Hematocrit or hemoglobin . . . . .                             | 15,285                                     | 1,818                       | 1.7               | 0.2                       | 1.5                 | 0.2                       | 1.9               | 0.3                       |
| Pap test . . . . .   | 28,035                                     | 3,699                       | 3.1               | 0.4                       | 5.2                 | 0.6                       | ...               | ...                       |
| Glucose . . . . .  | 48,450                                     | 5,202                       | 5.3               | 0.5                       | 5.0                 | 0.6                       | 5.8               | 0.7                       |
| HgbA1C <sup>7</sup> . . . . .                                  | 19,255                                     | 2,768                       | 2.1               | 0.3                       | 2.1                 | 0.3                       | 2.2               | 0.3                       |
| Electrolytes . . . . .   | 39,061                                     | 4,596                       | 4.3               | 0.5                       | 4.2                 | 0.5                       | 4.5               | 0.6                       |
| Other blood test . . . . .                                     | 85,280                                     | 6,831                       | 9.4               | 0.7                       | 9.5                 | 0.7                       | 9.3               | 0.8                       |
| Cultures   |  |                             |                   |                           |                     |                           |                   |                           |
| Throat or rapid strep test . . . . .                           | 15,718                                     | 2,076                       | 1.7               | 0.2                       | 1.5                 | 0.2                       | 2.1               | 0.3                       |
| Urine . . . . .  | 10,478                                     | 1,462                       | 1.2               | 0.2                       | 1.4                 | 0.2                       | 0.8               | 0.2                       |
| Stool . . . . .  | 3,393                                      | 733                         | 0.4               | 0.1                       | *0.3                | 0.1                       | *                 | ...                       |
| Cervical or urethral . . . . .                                 | 5,455                                      | 953                         | 0.6               | 0.1                       | 0.9                 | 0.2                       | *                 | ...                       |
| Imaging  |  |                             |                   |                           |                     |                           |                   |                           |
| Any imaging . . . . .  | 91,483                                     | 6,015                       | 10.1              | 0.5                       | 11.0                | 0.7                       | 8.8               | 0.5                       |
| X ray . . . . .  | 46,970                                     | 3,972                       | 5.2               | 0.4                       | 4.7                 | 0.4                       | 5.8               | 0.5                       |
| Mammography . . . . .  | 17,128                                     | 2,078                       | 1.9               | 0.2                       | 3.2                 | 0.3                       | ...               | ...                       |
| Other imaging . . . . .  | 33,290                                     | 2,796                       | 3.7               | 0.3                       | 3.7                 | 0.3                       | 3.6               | 0.3                       |
| Ultrasound . . . . .   | 15,530                                     | 2,054                       | 1.7               | 0.2                       | 1.8                 | 0.2                       | 1.5               | 0.3                       |
| Other service . . . . .  | 101,390                                    | 6,740                       | 11.2              | 0.6                       | 11.7                | 0.7                       | 10.4              | 0.7                       |

... Category not applicable.

0.0 Quantity more than zero, but less than 0.05.

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

<sup>1</sup>Total exceeds "All visits" because more than one service may be reported per visit.<sup>2</sup>Based on 537,298,000 visits made by females.<sup>3</sup>Based on 368,724,000 visits made by males.<sup>4</sup>EKG is electrocardiogram.<sup>5</sup>CBC is complete blood count.<sup>6</sup>PSA is prostate-specific antigen.<sup>7</sup>HgbA1C is glycohemoglobin.

**Table 18. Mean vital signs for patients seen at office visits with corresponding standard errors and percentiles by type of vital sign and patient's age: United States, 2003**

| Type of vital sign                            | Mean  | Standard error in of mean | 25th percentile | Median | 75th percentile |
|---|-------|---------------------------|-----------------|--------|-----------------|
| Temperature in Fahrenheit                     |       |                           |                 |        |                 |
| All visits . . . . .                          | 98.0  | 0.0                       | 97.3            | 97.9   | 98.5            |
| Under 5 years . . . . .                       | 98.1  | 0.1                       | 97.2            | 97.9   | 98.7            |
| 5 years and over . . . . .                    | 98.0  | 0.0                       | 97.3            | 97.9   | 98.5            |
| Reason for visit-fever . . . . .              | 99.0  | 0.1                       | 97.8            | 98.8   | 100.0           |
| Systolic blood pressure in mmHg <sup>1</sup>  |       |                           |                 |        |                 |
| All visits . . . . .                          | 125.9 | 0.6                       | 111.2           | 123.3  | 137.9           |
| 18–44 years . . . . .                         | 118.9 | 0.5                       | 109.3           | 119.0  | 127.2           |
| 45–64 years . . . . .                         | 130.0 | 0.5                       | 119.2           | 129.2  | 139.5           |
| 65 years and over . . . . .                   | 135.6 | 0.8                       | 119.9           | 133.7  | 147.3           |
| Diagnosis of hypertension . . . . .           | 140.1 | 1.0                       | 127.4           | 139.2  | 149.8           |
| Diastolic blood pressure in mmHg <sup>1</sup> |       |                           |                 |        |                 |
| All visits . . . . .                          | 75.6  | 0.3                       | 69.1            | 75.8   | 81.0            |
| 18–44 years . . . . .                         | 74.9  | 0.4                       | 69.0            | 73.8   | 79.8            |
| 45–64 years . . . . .                         | 79.3  | 0.3                       | 69.9            | 79.3   | 85.4            |
| 65 years and over . . . . .                   | 75.0  | 0.4                       | 69.0            | 75.5   | 79.9            |
| Diagnosis of hypertension . . . . .           | 81.2  | 0.5                       | 71.1            | 79.4   | 89.2            |

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>mmHg is millimeters of mercury.**Table 19. Number and percent of office visits with corresponding standard errors, by counseling, education, or therapeutic services ordered or provided and patient's sex: United States, 2003**

| Counseling, education, or therapeutic services ordered or provided         | Number of visits in thousands <sup>1</sup> | 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 . . . . .   | 906,023                                    | 34,276                      | ...               | ...                       | ...                 | ...                       | ...               | ...                       |
| One or more counseling, education, or therapeutic services listed. . . . . | 375,777                                    | 18,225                      | 41.5              | 1.5                       | 42.3                | 1.6                       | 40.2              | 1.6                       |
| None . . . . .   | 500,658                                    | 25,324                      | 55.3              | 1.6                       | 54.8                | 1.7                       | 56.0              | 1.7                       |
| Blank . . . . .  | 29,588                                     | 4,907                       | 3.3               | 0.5                       | 2.9                 | 0.5                       | 3.8               | 0.6                       |
| Diet or nutrition . . . . .  | 129,743                                    | 9,526                       | 14.3              | 0.9                       | 14.6                | 1.1                       | 13.9              | 0.9                       |
| Exercise . . . . .   | 91,409                                     | 8,067                       | 10.1              | 0.8                       | 10.2                | 0.9                       | 10.0              | 0.9                       |
| Mental health or stress management . . . . .                               | 37,264                                     | 3,670                       | 4.1               | 0.4                       | 4.3                 | 0.4                       | 3.8               | 0.5                       |
| Growth or development . . . . .  | 26,816                                     | 4,010                       | 3.0               | 0.4                       | 2.6                 | 0.4                       | 3.4               | 0.5                       |
| Weight reduction . . . . .   | 26,284                                     | 3,235                       | 2.9               | 0.3                       | 3.0                 | 0.4                       | 2.8               | 0.3                       |
| Tobacco use or exposure . . . . .  | 25,946                                     | 2,926                       | 2.9               | 0.3                       | 2.7                 | 0.3                       | 3.1               | 0.4                       |
| Psychotherapy . . . . .  | 19,901                                     | 2,421                       | 2.2               | 0.3                       | 2.0                 | 0.2                       | 2.4               | 0.4                       |
| Physiotherapy . . . . .  | 19,611                                     | 2,916                       | 2.2               | 0.3                       | 2.1                 | 0.3                       | 2.2               | 0.3                       |
| Asthma education . . . . .   | 15,472                                     | 1,577                       | 1.7               | 0.2                       | 1.7                 | 0.2                       | 1.8               | 0.2                       |
| Other . . . . .  | 174,683                                    | 11,635                      | 19.3              | 1.1                       | 20.2                | 1.3                       | 17.9              | 1.2                       |

... Category not applicable.

<sup>1</sup>Numbers may not add to totals because more than one type of counseling, education, or therapeutic service may be reported per visit.<sup>2</sup>Based on 537,298,000 visits made by females.<sup>3</sup>Based on 368,724,000 visits made by males.

**Table 20. Number and percent of write-in surgical procedures ordered or performed with corresponding standard errors, by procedure category: United States, 2003**

| Procedure or operation category <sup>1</sup> | ICD-9-CM codes | Number of procedures in thousands | Standard error in thousands | Percent distribution | Standard error of percent |
|--|----------------|-----------------------------------|-----------------------------|----------------------|---------------------------|
| All write-in procedures . . . . .            |                | 74,778                            | 4,510                       | 100.0                | ...                       |
| Nervous system . . . . .                     | 01–05          | *2,256                            | 683                         | 3.0                  | 0.9                       |
| Eye . . . . .                                | 08–16          | 7,658                             | 1,657                       | 10.2                 | 2.1                       |
| Ear . . . . .                                | 18–20          | 1,645                             | 266                         | 2.2                  | 0.4                       |
| Nose, mouth, and pharynx . . . . .           | 21–29          | 3,239                             | 431                         | 4.3                  | 0.6                       |
| Cardiovascular system . . . . .              | 35–39          | 3,849                             | 951                         | 5.1                  | 1.2                       |
| Digestive system . . . . .                   | 42–54          | 4,901                             | 1,120                       | 6.5                  | 1.4                       |
| Urinary system . . . . .                     | 55–59          | 1,379                             | 307                         | 1.8                  | 0.4                       |
| Male genital organs . . . . .                | 60–64          | 1,973                             | 314                         | 2.6                  | 0.4                       |
| Female genital organs . . . . .              | 65–71          | 5,925                             | 1,382                       | 7.9                  | 1.7                       |
| Obstetrical procedures . . . . .             | 72–75          | 2,993                             | 803                         | 4.0                  | 1.1                       |
| Musculoskeletal system . . . . .             | 76–84          | 9,865                             | 1,477                       | 13.2                 | 1.7                       |
| Integumentary system . . . . .               | 85–86          | 27,977                            | 2,572                       | 37.4                 | 2.6                       |
| Other procedures <sup>2</sup> . . . . .      |                | *1,118                            | 347                         | *1.5                 | 0.5                       |

... Category not applicable.

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

<sup>1</sup>Based on the *International Classification of Diseases, 9th Revision, Clinical Modification (ICD–9–CM) (11)*.

<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).

NOTES: Included are responses to the ambulatory surgery item on the Patient Record form (Item 8) (up to two procedures could be reported), and the diagnostic or screening services item (Item 6) (up to two procedures can be reported in the "Scope procedure-Specify" and the "Other service-Specify" categories). Miscellaneous diagnostic and therapeutic procedures (nonsurgical procedures) were not included in the total. These procedures, coded to ICD–9–CM volume 3, range 87–99, represented 122,008,621 procedures.

**Table 21. 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, 2003**

| Visit characteristic  | Number of visits in thousands | Standard error in thousands | Percent distribution | Standard error of percent | Female <sup>1</sup>  |                           | Male <sup>2</sup>    |                           |
|---|-------------------------------|-----------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|
|   |                               |                             |                      |                           | Percent distribution | Standard error of percent | Percent distribution | Standard error of percent |
| Medication therapy <sup>3</sup>                             |                               |                             |                      |                           |                      |                           |                      |                           |
| All visits . . . . .  | 906,023                       | 34,276                      | 100.0                | ...                       | 100.0                | ...                       | 100.0                | ...                       |
| Drug visits <sup>4</sup> . . . . .                          | 595,339                       | 24,209                      | 65.7                 | 1.1                       | 65.2                 | 1.2                       | 66.4                 | 1.2                       |
| Visits without mention of medication . . . . .              | 310,684                       | 15,711                      | 34.3                 | 1.1                       | 34.8                 | 1.2                       | 33.6                 | 1.2                       |
| Number of medications provided or prescribed by a physician |                               |                             |                      |                           |                      |                           |                      |                           |
| All visits . . . . .  | 906,023                       | 34,276                      | 100.0                | ...                       | 100.0                | ...                       | 100.0                | ...                       |
| 0 . . . . .   | 310,684                       | 15,711                      | 34.3                 | 1.1                       | 34.8                 | 1.2                       | 33.6                 | 1.2                       |
| 1 . . . . .   | 237,349                       | 11,397                      | 26.2                 | 0.7                       | 26.1                 | 0.9                       | 26.4                 | 0.8                       |
| 2 . . . . .   | 139,770                       | 6,750                       | 15.4                 | 0.4                       | 15.0                 | 0.5                       | 16.0                 | 0.5                       |
| 3 . . . . .   | 73,990                        | 4,510                       | 8.2                  | 0.4                       | 7.7                  | 0.4                       | 8.8                  | 0.5                       |
| 4 . . . . .   | 45,682                        | 2,915                       | 5.0                  | 0.3                       | 5.1                  | 0.3                       | 5.0                  | 0.4                       |
| 5 . . . . .   | 29,904                        | 2,344                       | 3.3                  | 0.2                       | 3.4                  | 0.3                       | 3.1                  | 0.3                       |
| 6 . . . . .   | 23,196                        | 2,297                       | 2.6                  | 0.2                       | 2.6                  | 0.3                       | 2.5                  | 0.3                       |
| 7 . . . . .   | 12,305                        | 1,483                       | 1.4                  | 0.2                       | 1.4                  | 0.2                       | 1.2                  | 0.2                       |
| 8 . . . . .   | 33,143                        | 4,053                       | 3.7                  | 0.4                       | 3.8                  | 0.4                       | 3.5                  | 0.5                       |

... Category not applicable.

<sup>1</sup>Based on 537,298,000 visits made by females.

<sup>2</sup>Based on 368,724,000 visits made by males.

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

<sup>4</sup>Visits at which one or more drugs were provided or prescribed by the physician.

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



**Table 22. Number and percent distribution of drug visits and drug mentions, and percent drug visits and drug mention rates per 100 visits with corresponding standard errors, by physician specialty: United States, 2003**

| Physician specialty                   | Drug visits                      |                             |                      |                           | Drug mentions                    |                             |                      |                           | Percent drug visits              |                           | Drug mention rates                                  |                        |
|---------------------------------------|----------------------------------|-----------------------------|----------------------|---------------------------|----------------------------------|-----------------------------|----------------------|---------------------------|----------------------------------|---------------------------|---|------------------------|
|                                       | Number in thousands <sup>1</sup> | Standard error in thousands | Percent distribution | Standard error of percent | Number in thousands <sup>2</sup> | Standard error in thousands | Percent distribution | Standard error of percent | Percent drug visits <sup>3</sup> | Standard error of percent | Number of drug mentions per 100 visits <sup>4</sup> | Standard error of rate |
| All specialties . . . . .             | 595,339                          | 24,209                      | 100.0                | . . .                     | 1,561,556                        | 81,598                      | 100.0                | . . .                     | 65.7                             | 1.1                       | 172.4   | 6.7                    |
| General and family practice . . . . . | 170,967                          | 11,820                      | 28.7                 | 1.7                       | 442,767                          | 38,909                      | 28.4                 | 2.2                       | 76.6                             | 1.5                       | 198.5   | 11.2                   |
| Internal medicine . . . . .           | 111,224                          | 14,200                      | 18.7                 | 2.0                       | 354,098                          | 52,035                      | 22.7                 | 2.7                       | 78.7                             | 2.8                       | 250.5   | 25.4                   |
| Pediatrics . . . . .                  | 62,953                           | 6,370                       | 10.6                 | 1.0                       | 125,952                          | 14,509                      | 8.1                  | 0.9                       | 67.0                             | 2.3                       | 134.1   | 8.1                    |
| Obstetrics and gynecology . . . . .   | 35,389                           | 5,850                       | 5.9                  | 0.9                       | 61,861                           | 11,462                      | 4.0                  | 0.7                       | 44.1                             | 4.1                       | 77.2  | 10.0                   |
| Ophthalmology . . . . .               | 26,126                           | 4,143                       | 4.4                  | 0.7                       | 55,613                           | 11,136                      | 3.6                  | 0.7                       | 53.0                             | 4.5                       | 112.8   | 17.2                   |
| Psychiatry . . . . .                  | 25,277                           | 3,085                       | 4.2                  | 0.5                       | 58,396                           | 8,043                       | 3.7                  | 0.5                       | 88.2                             | 1.6                       | 203.9   | 12.6                   |
| Cardiovascular diseases . . . . .     | 20,237                           | 2,705                       | 3.4                  | 0.5                       | 100,440                          | 14,659                      | 6.4                  | 0.9                       | 80.3                             | 3.5                       | 398.6   | 28.8                   |
| Dermatology . . . . .                 | 18,970                           | 1,948                       | 3.2                  | 0.3                       | 34,175                           | 3,795                       | 2.2                  | 0.3                       | 63.7                             | 2.3                       | 114.7   | 6.7                    |
| Orthopedic surgery . . . . .          | 17,502                           | 2,796                       | 2.9                  | 0.5                       | 32,221                           | 6,439                       | 2.1                  | 0.4                       | 40.0                             | 3.6                       | 73.6  | 11.0                   |
| Otolaryngology . . . . .              | 11,850                           | 1,601                       | 2.0                  | 0.3                       | 23,845                           | 4,057                       | 1.5                  | 0.3                       | 55.4                             | 3.5                       | 111.4   | 12.5                   |
| Urology . . . . .                     | 9,513                            | 1,205                       | 1.6                  | 0.2                       | 15,260                           | 2,156                       | 1.0                  | 0.2                       | 51.8                             | 2.5                       | 83.2  | 7.5                    |
| Neurology . . . . .                   | 9,134                            | 1,144                       | 1.5                  | 0.2                       | 23,856                           | 3,559                       | 1.5                  | 0.2                       | 70.9                             | 2.5                       | 185.2   | 20.2                   |
| General surgery . . . . .             | 4,005                            | 929                         | 0.7                  | 0.2                       | 9,040                            | 2,401                       | *0.6                 | 0.2                       | 20.5                             | 4.4                       | 46.4  | 11.8                   |
| All other specialties . . . . .       | 72,192                           | 9,636                       | 12.1                 | 1.6                       | 224,033                          | 34,126                      | 14.3                 | 2.1                       | 60.9                             | 4.2                       | 188.8   | 22.9                   |

. . . Category not applicable.

<sup>1</sup>Visits at which one or more drugs were provided or prescribed by the physician.

<sup>2</sup>Number of drugs mentioned at visits (up to eight per visit).

<sup>3</sup>Percent of visits that included one or more drug mentions (number of drug visits divided by number of office visits multiplied by 100).

<sup>4</sup>Average number of drugs that were mentioned 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 23. Number and percentage of drug mentions for the 20 most frequently occurring therapeutic classes at office visits with corresponding standard errors: United States, 2003**

| Therapeutic classification <sup>1</sup> | Number of occurrences in thousands | Standard error in thousands | Percent of drug mentions <sup>2</sup> | Standard error of percent |
|---|------------------------------------|-----------------------------|---------------------------------------|---------------------------|
| NSAIDs <sup>3</sup>                     | 80,086                             | 5,515                       | 5.1                                   | 0.3                       |
| Antidepressants                         | 76,986                             | 5,222                       | 4.9                                   | 0.2                       |
| Hyperlipidemia                          | 62,357                             | 5,403                       | 4.0                                   | 0.2                       |
| Antihistamines                          | 60,079                             | 5,029                       | 3.8                                   | 0.3                       |
| Antiarthritics                          | 60,041                             | 5,693                       | 3.8                                   | 0.3                       |
| Antiasthmatics or bronchodilators       | 59,802                             | 6,080                       | 3.8                                   | 0.3                       |
| Antihypertensive agents                 | 57,916                             | 5,590                       | 3.7                                   | 0.2                       |
| Analgesics, nonnarcotic                 | 54,872                             | 4,897                       | 3.5                                   | 0.2                       |
| Acid or peptic disorders                | 54,164                             | 4,195                       | 3.5                                   | 0.2                       |
| Antipyretics                            | 49,882                             | 4,667                       | 3.2                                   | 0.2                       |
| Blood glucose regulators                | 49,638                             | 5,032                       | 3.2                                   | 0.2                       |
| Vaccines or antisera                    | 47,800                             | 5,004                       | 3.1                                   | 0.3                       |
| Diuretics                               | 43,063                             | 3,823                       | 2.8                                   | 0.2                       |
| Vitamins or minerals                    | 42,390                             | 5,240                       | 2.7                                   | 0.3                       |
| ACE inhibitors <sup>4</sup>             | 41,923                             | 3,724                       | 2.7                                   | 0.2                       |
| Beta blockers                           | 37,848                             | 3,402                       | 2.4                                   | 0.1                       |
| Analgesics, narcotic                    | 37,614                             | 2,935                       | 2.4                                   | 0.2                       |
| Penicillins                             | 36,285                             | 3,351                       | 2.3                                   | 0.2                       |
| Calcium channel blockers                | 33,894                             | 3,217                       | 2.2                                   | 0.1                       |
| Adrenal corticosteroids                 | 31,941                             | 2,908                       | 2.0                                   | 0.2                       |

<sup>1</sup>Based on the standard four-digit drug classification used in the *National Drug Code Directory*, 1995 edition (14).

<sup>2</sup>Based on an estimated 1,561,556,000 drug mentions at office visits in 2003.

<sup>3</sup>NSAIDs are nonsteroidal anti-inflammatory drugs.

<sup>4</sup>ACE is angiotensin-converting enzyme.

**Table 24. Number and rate of generic substances for the 20 most frequently occurring generic substances in drug mentions at office visits with corresponding standard errors: United States, 2003**

| Generic substance      | Number of occurrences in thousands <sup>1</sup> | Standard error in thousands | Number of generic substances per 100 drug mentions <sup>2</sup> | Standard error of rate |
|------------------------|---|-----------------------------|---|------------------------|
| Acetaminophen          | 50,797  | 3,713                       | 3.3   | 0.2                    |
| Aspirin                | 36,288  | 4,243                       | 2.3   | 0.2                    |
| Amoxicillin            | 34,192  | 3,296                       | 2.2   | 0.2                    |
| Hydrochlorothiazide    | 31,597  | 3,046                       | 2.0   | 0.1                    |
| Atorvastatin calcium   | 31,182  | 2,909                       | 2.0   | 0.1                    |
| Albuterol              | 23,342  | 2,334                       | 1.5   | 0.1                    |
| Fluticasone propionate | 23,275  | 2,336                       | 1.5   | 0.1                    |
| Hydrocodone            | 22,437  | 2,293                       | 1.4   | 0.1                    |
| Ibuprofen              | 22,187  | 2,369                       | 1.4   | 0.1                    |
| Levothyroxine          | 21,635  | 2,127                       | 1.4   | 0.1                    |
| Furosemide             | 19,231  | 2,107                       | 1.2   | 0.1                    |
| Metoprolol             | 18,221  | 1,806                       | 1.2   | 0.1                    |
| Amlodipine             | 18,150  | 2,164                       | 1.2   | 0.1                    |
| Lisinopril             | 18,123  | 2,116                       | 1.2   | 0.1                    |
| Pseudoephedrine        | 18,110  | 2,296                       | 1.2   | 0.1                    |
| Guaifenesin            | 16,859  | 2,158                       | 1.1   | 0.1                    |
| Metformin              | 16,056  | 1,908                       | 1.0   | 0.1                    |
| Azithromycin           | 15,425  | 1,636                       | 1.0   | 0.1                    |
| Atenolol               | 15,300  | 1,732                       | 1.0   | 0.1                    |
| Rofecoxib              | 14,113  | 1,503                       | 0.9   | 0.1                    |

<sup>1</sup>Frequency of mention combines single-ingredient agents with mentions of the agent as an ingredient in a combination drug.

<sup>2</sup>Based on an estimated 1,561,556,000 drug mentions at office visits in 2003.

**Table 25. Number, percent distribution, and therapeutic class for the 20 drugs most frequently prescribed at office visits with corresponding standard errors, by entry name of drug: United States, 2003**

| Entry name of drug <sup>1</sup>   | Number of drug mentions in thousands | Standard error in thousands | Percent distribution | Standard error of percent | Therapeutic class <sup>2</sup>                       |
|-----------------------------------|--------------------------------------|-----------------------------|----------------------|---------------------------|--|
| All drug mentions . . . . .       | 1,561,556                            | 81,598                      | 100.0                | . . .                     | . . .  |
| Lipitor . . . . .                 | 30,382                               | 2,717                       | 1.9                  | 0.1                       | Hyperlipidemia                                       |
| A.S.A. <sup>3</sup> . . . . .     | 20,202                               | 2,752                       | 1.3                  | 0.1                       | Nonnarcotic analgesics; antiarthritics; antipyretics |
| Albuterol . . . . .               | 17,011                               | 1,895                       | 1.1                  | 0.1                       | Antiasthmatics or bronchodilators                    |
| Synthroid . . . . .               | 16,884                               | 1,805                       | 1.1                  | 0.1                       | Thyroid or antithyroid                               |
| Lasix . . . . .                   | 15,922                               | 1,813                       | 1.0                  | 0.1                       | Diuretics  |
| Tylenol . . . . .                 | 14,395                               | 1,813                       | 0.9                  | 0.1                       | Nonnarcotic analgesics; antipyretics                 |
| Vioxx . . . . .                   | 14,054                               | 1,504                       | 0.9                  | 0.1                       | NSAIDs <sup>4</sup>                                  |
| Norvasc . . . . .                 | 13,904                               | 1,448                       | 0.9                  | 0.1                       | Calcium channel blockers                             |
| Amoxicillin . . . . .             | 13,830                               | 1,770                       | 0.9                  | 0.1                       | Penicillins  |
| Hydrochlorothiazide . . . . .     | 13,056                               | 1,633                       | 0.8                  | 0.1                       | Diuretics  |
| Prednisone . . . . .              | 12,933                               | 2,013                       | 0.8                  | 0.1                       | Adrenal corticosteroids                              |
| Zocor . . . . .                   | 12,816                               | 1,763                       | 0.8                  | 0.1                       | Hyperlipidemia                                       |
| Atenolol . . . . .                | 12,697                               | 1,543                       | 0.8                  | 0.1                       | Beta blockers  |
| Zyrtec . . . . .                  | 12,480                               | 1,566                       | 0.8                  | 0.1                       | Antihistamines                                       |
| Celebrex . . . . .                | 12,207                               | 1,276                       | 0.8                  | 0.1                       | NSAIDs <sup>4</sup>                                  |
| Influenza virus vaccine . . . . . | 12,040                               | 2,932                       | 0.8                  | 0.2                       | Vaccines   |
| Allergy relief or shots . . . . . | *11,958                              | 4,954                       | *0.8                 | 0.3                       | Allergenic extracts                                  |
| Zoloft . . . . .                  | 11,582                               | 1,120                       | 0.7                  | 0.1                       | Antidepressants                                      |
| Augmentin . . . . .               | 11,576                               | 1,593                       | 0.7                  | 0.1                       | Penicillins  |
| Allegra . . . . .                 | 11,080                               | 1,361                       | 0.7                  | 0.1                       | Antihistamines                                       |
| All other . . . . .               | 1,270,544                            | 65,669                      | 81.4                 | 0.5                       | . . .  |

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

. . . Category not applicable.

<sup>1</sup>The entry made by the physician on the prescription or other medical records. This may be a trade name, generic name, or desired therapeutic effect.

<sup>2</sup>Therapeutic class is based on the *National Drug Code Directory*, 1995 edition (14). In cases where a drug had more than one therapeutic use, it was classified under each therapeutic class.

<sup>3</sup>A.S.A. is acetylsalicylic acid.

<sup>4</sup>NSAIDs are nonsteroidal anti-inflammatory drugs.

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

**Table 26. Number and percent of office visits with corresponding standard errors, by providers seen: United States, 2003**

| Type of provider                             | Number of visits in thousands <sup>1</sup> | Standard error in thousands | Percent of visits | Standard error of percent |
|--|--|-----------------------------|-------------------|---------------------------|
| All visits . . . . .                         | 906,023                                    | 34,276                      | . . .             | . . .                     |
| Physician . . . . .                          | 864,937                                    | 32,816                      | 95.5              | 0.6                       |
| Medical or nursing assistant . . . . .       | 195,782                                    | 15,348                      | 21.6              | 1.6                       |
| R.N. <sup>2</sup> . . . . .                  | 143,893                                    | 15,510                      | 15.9              | 1.6                       |
| L.P.N. <sup>3</sup> . . . . .                | 102,840                                    | 13,278                      | 11.4              | 1.4                       |
| Medical technician or technologist . . . . . | 47,397                                     | 7,781                       | 5.2               | 0.8                       |
| Physician assistant . . . . .                | 12,895                                     | 3,106                       | 1.4               | 0.3                       |
| Nurse practitioner or midwife . . . . .      | 10,423                                     | 2,988                       | 1.2               | 0.3                       |
| Other . . . . .                              | 22,229                                     | 3,988                       | 2.5               | 0.5                       |

. . . Category not applicable.

<sup>1</sup>Total exceeds "All visits" because more than one 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 percent of office visits with corresponding standard errors, by visit disposition: United States, 2003

| Disposition                                     | Number of visits in thousands <sup>1</sup> | Standard error in thousands | Percent of visits | Standard error of percent |
|---|--|-----------------------------|-------------------|---------------------------|
| All visits . . . . .                            | 906,023                                    | 34,276                      | ...               | ...                       |
| Return at specified time. . . . .               | 570,175                                    | 23,745                      | 62.9              | 1.4                       |
| Return if needed, P.R.N. <sup>2</sup> . . . . . | 255,548                                    | 17,843                      | 28.2              | 1.5                       |
| No followup planned. . . . .                    | 62,365                                     | 6,045                       | 6.9               | 0.6                       |
| Refer to other physician . . . . .              | 54,161                                     | 3,726                       | 6.0               | 0.3                       |
| Telephone followup planned . . . . .            | 18,692                                     | 2,297                       | 2.1               | 0.2                       |
| Admit to hospital . . . . .                     | 4,428                                      | 662                         | 0.5               | 0.1                       |
| Other disposition . . . . .                     | 15,526                                     | 1,964                       | 1.7               | 0.2                       |
| Blank . . . . .                                 | 12,451                                     | 1,496                       | 1.4               | 0.2                       |

... Category not applicable.

<sup>1</sup>Total exceeds "All visits" because more than one disposition may be reported per visit.

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

**Table 28. Number and percent distribution of office visits with corresponding standard errors, by time spent with physician: United States, 2003**

| Time spent with physician                      | Number of visits in thousands | Standard error in thousands | Percent distribution | Standard error of percent |
|--|-------------------------------|-----------------------------|----------------------|---------------------------|
| All visits . . . . .                           | 906,023                       | 34,276                      | 100.0                | ...                       |
| Visits at which no physician was seen. . . . . | 41,086                        | 5,982                       | 4.5                  | 0.6                       |
| Visits at which a physician was seen. . . . .  | 864,937                       | 32,816                      | 95.5                 | 0.6                       |
| Total. . . . .                                 | 864,937                       | 32,816                      | 100.0                | ...                       |
| 1–5 minutes . . . . .                          | 31,384                        | 6,893                       | 3.6                  | 0.7                       |
| 6–10 minutes . . . . .                         | 155,440                       | 11,209                      | 18.0                 | 1.0                       |
| 11–15 minutes . . . . .                        | 293,598                       | 14,987                      | 33.9                 | 1.2                       |
| 16–30 minutes . . . . .                        | 314,474                       | 15,166                      | 36.4                 | 1.4                       |
| 31–60 minutes . . . . .                        | 63,490                        | 4,522                       | 7.3                  | 0.5                       |
| 61 minutes and over . . . . .                  | 6,551                         | 1,662                       | 0.8                  | 0.2                       |

... Category not applicable.

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

**Table 29. Mean time spent with physician with corresponding standard errors and percentiles, by physician specialty: United States, 2003**

| Physician specialty                   | Mean time in minutes spent with physician <sup>1</sup> | Standard error in of mean | 25th percentile | Median | 75th percentile |
|---------------------------------------|--|---------------------------|-----------------|--------|-----------------|
| All visits . . . . .                  | 19.7   | 0.3                       | 14.0            | 14.8   | 24.1            |
| Psychiatry . . . . .                  | 32.2   | 1.8                       | 14.9            | 27.2   | 44.1            |
| Neurology . . . . .                   | 26.8   | 0.9                       | 14.8            | 19.9   | 29.8            |
| Cardiovascular diseases . . . . .     | 22.3   | 1.0                       | 14.0            | 18.4   | 28.3            |
| Urology . . . . .                     | 20.1   | 0.7                       | 14.0            | 15.0   | 24.2            |
| Internal medicine . . . . .           | 20.1   | 1.2                       | 14.3            | 18.2   | 24.6            |
| General and family practice . . . . . | 18.7   | 0.5                       | 14.1            | 14.7   | 19.8            |
| General surgery . . . . .             | 17.7   | 0.7                       | 9.8             | 14.2   | 19.5            |
| Obstetrics and gynecology . . . . .   | 17.6   | 0.7                       | 14.0            | 14.7   | 19.3            |
| Ophthalmology . . . . .               | 17.6   | 1.6                       | 9.3             | 14.1   | 19.5            |
| Otolaryngology . . . . .              | 17.4   | 0.6                       | 11.5            | 14.7   | 19.6            |
| Orthopedic surgery . . . . .          | 16.4   | 0.9                       | 8.6             | 13.1   | 19.0            |
| Pediatrics . . . . .                  | 16.3   | 0.5                       | 9.8             | 14.6   | 18.8            |
| Dermatology . . . . .                 | 15.8   | 0.8                       | 9.8             | 14.4   | 18.2            |
| All other specialties . . . . .       | 24.8   | 1.6                       | 14.3            | 19.4   | 29.2            |

<sup>1</sup>Only visits where a physician was seen are included.

## Technical Notes

### Data collection

The NAMCS data collection is authorized under Section 308d of the Public Health Service Act (Title 42 U.S. Code), S242k. Participation is voluntary. In 2003, of the 1,407 in-scope physicians who participated in the NAMCS, 1,114 of them completed 25,288 Patient Record forms (PRFs), and 293 physicians saw no patients during their sampled week. Of the 1,114 physicians who completed PRFs, 94.2 percent (N=1,049) provided at least half the PRFs expected for their sampled visits and were considered to be fully or adequately responding. The unweighted physician response rate of 66.9 percent includes both physicians responding fully or adequately and physicians who saw no patients during that week.

The U.S. Census Bureau, acting as the data collection agent for the survey, provided training to field representatives (FRs) throughout the Nation. The FRs oversaw data collection at the physician's office. FRs contacted physicians for induction into the survey after an advance letter was mailed by NCHS notifying the physicians of their selection for the survey. In most cases, physicians or their staff completed the information requested on the PRFs (see [figure I](#)). However, in 27.0 percent of the offices, FRs abstracted the data from medical records or computer printouts, either alone or with the doctor or office staff.

### Health Insurance Portability and Accountability Act

In April 2003, the Privacy Rule of the Health Insurance Portability and Accountability Act (HIPAA) was implemented to establish minimum Federal standards for safeguarding the privacy of individually identifiable health information. No personally identifying information, such as patient's name, address, or Social Security number, is collected in the NAMCS. Data collection is authorized by Section 306 of the Public Health Service Act (Title 42, U.S. Code, 242k). 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). The NAMCS protocol was approved by the NCHS Research Ethics Review Board in February 2003. 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.

In spring 2003, the NAMCS implemented additional data collection procedures to help providers ensure patient confidentiality. Census Bureau field representatives were trained on how the Privacy Rule allows physicians to make disclosures of protected health information without patient authorization for public health purposes and for research that has been approved by a Research Ethics Review Board. Physicians were encouraged to accept a data use agreement between themselves and CDC's NCHS because the Privacy Rule allows physicians to disclose limited data sets (i.e., data sets with no direct patient identifiers) for research and public health purposes if such an agreement exists.

### Sampling errors

The standard error is primarily a measure of the sampling variability that occurs by chance when only a sample, rather than an entire universe, is surveyed. The standard error does not measure any systematic biases in the data.

The standard errors presented in the tables and used in tests of significance for this report were estimated using SUDAAN software. SUDAAN computes standard errors by using a first-order Taylor approximation of the deviation of estimates from their expected values. A description of the software and the approach it uses has been published (5). 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. When it is not feasible to use

statistical software (such as SUDAAN or STATA) for analyzing complex survey data, one may calculate approximate RSEs for aggregate estimates using generalized variance curve parameters that are described in the *Public Use File Documentation* (19).

### Published and flagged estimates

Estimates are not presented unless a reasonable assumption regarding their probability distributions is possible on the basis of the Central Limit Theorem. This theorem states that given a sufficiently large sample size, the sample estimate approximates the population estimate and, upon repeated sampling, its distribution would be approximately normal.

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. Estimates based on 30 or more cases include an asterisk only if the RSE of the estimate exceeds 30 percent.

### Estimation

Statistics from the NAMCS are derived by a multistage estimation procedure that produces essentially unbiased national estimates. The estimation procedure has four basic components:

- inflation by reciprocals of the sampling selection probabilities
- adjustment for nonresponse
- a calibration ratio adjustment
- weight smoothing

Estimates from the NAMCS data were adjusted to account for in-scope physicians who did not provide PRFs (non-PRF physicians) either because they saw no patients during their sample week or failed to provide PRFs for visits by patients they did see during their sample week. Starting with 2003, the adjustment for non-PRF physicians differs from the adjustment used in prior years (20). Previously, due to lack of information on the subject, it was assumed that non-PRF physicians saw patients the same number of weeks annually as PRF physicians (physicians who provided PRFs), and among physicians who did see patients during

their sampled weeks, the numbers of visits (visit volume) seen during that week were assumed to be the same for PRF and non-PRF physicians. However, research done for the first time on the 2003 data showed these two assumptions were not always true. In general, the weekly visit volume for non-PRF physicians was larger than for PRF physicians. Also, physicians who saw no patients during their sample week tended to see patients fewer weeks annually than did physicians who saw patients during their week (4). To minimize understatement (and in some cases, overstatement) of visits, the nonresponse adjustment factor was revised to include information on the number of weeks physicians actually practiced during a typical year and the number of visits physicians reported during a week (20). Both data items were collected during the induction interview instrument for both responding and nonresponding physicians starting with the 2001 NAMCS.

The 2003 weight with the revised nonresponse adjustment increases the overall visit estimate by 12 percent over the same estimate obtained using the original weight ( $p < 0.05$ , data not shown). For this reason, 2003 visit estimates are not comparable to visit estimates computed using the original weighting formula. In this report, 2001 and 2002 visit estimates were recomputed using revised weights for those years so that the estimates could be validly compared with 2003 estimates. The increased estimates due to the revised weights are reflected in figures 3 and 7. Table I also compares effects of the revised weight on 2003 visit rates and percentages for selected characteristics relative to estimates using the original weight. Overall, using the revised weight increased the visit rate by 12 percent ( $p < 0.05$ ). Increases in visit rate estimates due to the revised estimator ranged from 8% for the visit rate in the South to 16% for the visit rate for black persons 75 years and over (table I). However, other than the total, none of the visit rate differences in table I were statistically significant. Percentages were slightly affected by the change in estimators; the percentage change in percentage estimates due to

**Table I. Comparison of visit rate and percentages by selected characteristics based on original and revised weight: National Ambulatory Medical Care Survey, 2003**

| Characteristic            | Visit rate      |                |                | Percent of visits |                |                |
|---------------------------|-----------------|----------------|----------------|-------------------|----------------|----------------|
|                           | Original weight | Revised weight | Percent change | Original weight   | Revised weight | Percent change |
| Total                     | 284.3           | 317.3          | 11.6           | ...               | ...            | ...            |
| Age                       |                 |                |                |                   |                |                |
| Under 15 years            | 214.5           | 239.3          | 11.6           | 16.0              | 16.0           | 0.0            |
| 15–24 years               | 161.9           | 180.6          | 11.6           | 8.0               | 8.0            | 0.0            |
| 25–44 years               | 222.7           | 247.5          | 11.1           | 22.6              | 22.5           | -0.4           |
| 45–64 years               | 339.2           | 377.2          | 11.2           | 28.5              | 28.4           | -0.4           |
| 65–74 years               | 526.5           | 588.2          | 11.7           | 11.7              | 11.7           | 0.0            |
| 75 years and over         | 660.0           | 748.2          | 13.4           | 13.2              | 13.4           | 1.5            |
| Race and age              |                 |                |                |                   |                |                |
| White                     | 303.0           | 337.2          | 11.3           | 86.0              | 85.8           | -0.2           |
| Under 15 years            | 240.0           | 267.2          | 11.3           | 13.7              | 13.7           | 0.0            |
| 15–24 years               | 177.6           | 197.8          | 11.4           | 6.8               | 6.8            | 0.0            |
| 25–44 years               | 234.9           | 260.5          | 10.9           | 19.0              | 18.9           | -0.5           |
| 45–64 years               | 350.0           | 388.2          | 10.9           | 24.6              | 24.4           | -0.8           |
| 65–74 years               | 523.8           | 582.0          | 11.1           | 10.1              | 10.0           | -1.0           |
| 75 years and over         | 663.4           | 747.0          | 12.6           | 11.8              | 11.9           | 0.8            |
| Black or African American | 210.2           | 235.9          | 12.2           | 9.3               | 9.3            | 0.0            |
| Under 15 years            | 120.5           | 138.0          | 14.5           | 1.4               | 1.4            | 0.0            |
| 15–24 years               | 113.1           | 123.2          | 8.9            | 0.8               | 0.8            | 0.0            |
| 25–44 years               | 198.5           | 222.3          | 12.0           | 2.5               | 2.5            | 0.0            |
| 45–64 years               | 293.8           | 327.4          | 11.4           | 2.6               | 2.6            | 0.0            |
| 65–74 years               | 539.6           | 601.5          | 11.5           | 1.1               | 1.1            | 0.0            |
| 75 years and over         | 524.2           | 607.6          | 15.9           | 0.8               | 0.8            | 0.0            |
| Geographic region         |                 |                |                |                   |                |                |
| Northeast                 | 312.1           | 353.5          | 13.3           | 20.6              | 20.9           | 1.5            |
| Midwest                   | 247.0           | 282.9          | 14.5           | 19.6              | 20.1           | 2.6            |
| South                     | 306.8           | 331.6          | 8.1            | 38.6              | 37.4           | -3.1           |
| West                      | 263.0           | 299.2          | 13.8           | 21.2              | 21.6           | 1.9            |

... Category not applicable.

the revised weight ranged from -3 to 3%. The effect of the revised weight on percentage of drug mentions was minimal (figure 8) because the revised weights are used in both the numerator and denominator. However, population-based drug mention rates (drug mentions per 100 persons) as shown in figure 7 are affected by the weight change because only the numerator is subject to the revised weight.

When analysis includes both published estimates based on the old weights (for years prior to 2003) and estimates based on the revised weights (2003 and subsequent years), the analyst should emphasize to the reader that estimates from the two time periods are not comparable because of differences in weighting procedures and reasons for the weighting differences. A possible statement about the weighting differences is: "The weights for 2003 and later years include adjustments for

variation in the typical number of weeks worked annually and for variation in visit volume in a work week, whereas the weights for earlier years do not. The revised weighting algorithm increased visit estimates."

### 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 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. Coding error rates ranged from 0.1 to 1.1% for various data items.

*Adjustments for survey nonresponse*—The weighted response rate for the 2003 NAMCS was 66.3 percent. [Table II](#) presents weighted characteristics of NAMCS respondents and nonrespondents, along with weighted response rates. Distributions were similar, with the exception of physician sex, specialty, and annual visit volume; female physicians, pediatricians, and practices with low annual visit volume were more likely to cooperate. The effect of this differential response is minimized in the visit estimates in most cases as NAMCS uses a nonresponse adjustment factor that takes annual visit volume, specialty, geographic region, and MSA into account.

*Adjustments for item nonresponse*—Item nonresponse rates in the 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, the majority of 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. If nonresponse is random, the observed distribution for the reported item (i.e., excluding causes 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. For items with a nonresponse greater than 50 percent, data are not presented.

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 data items with the following exceptions: was patient referred for this visit (16.8 percent), episode of care (7.8 percent), do other physicians share patient’s care for this problem or diagnosis (11.5 percent), and cause of injury (35.2 percent of injury visits).

For some items, missing values were imputed by randomly assigning a value from a Patient Record form with similar characteristics and were based on physician specialty, geographic region, and 3-digit ICD-9-CM codes for primary diagnosis. Imputations were performed for the following variables: birth year (3.6 percent), sex (3.6 percent), ethnicity (17.8 percent), race (16.5 percent), patient seen before in practice (0.4 percent), how many past visits in last 12 months (4.3 percent), and time spent with physician (14.6 percent). This represents a change from previous survey years when imputations were also performed for disposition and providers seen. Beginning in 1997, these latter items were no longer imputed. Blank or otherwise missing responses are noted in the data. The 2003 NAMCS is the first year that the two variables, “patient seen before in practice” and “how many past visits in last 12 months” were imputed. The variable “ethnicity,” not imputed in 1997–2002, was imputed in 2003 because the percentage of visits missing this information continues to decrease as more States mandate its collection. Ethnicity was imputed by randomly assigning a value from a Patient Record form with similar characteristics based on physician specialty, State, and 3-digit ICD-9-CM codes for primary diagnosis

### Tests of significance and rounding

In this report, the determination of statistical inference is based on a 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. 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 between any two estimates does not mean that the difference was tested and found to be not significant.

A weighted least-squares regression analysis was used to determine the significance of trends. For the weighted least-squares test, the null hypothesis is that the slope,  $\beta$ , of the regression line between the two variables of interest does not significantly differ from zero, and the alternative hypothesis is that it does differ from zero (i.e.,  $H_0: \beta=0$ , and  $H_A: \beta \neq 0$ ).

In this modified least-squares regression, each estimate is weighted by the inverse of the standard error (21). In the tables, estimates of office visits have been rounded to the nearest thousand. Consequently, estimates will not always add to totals. Rates and percents were calculated from original unrounded figures and do not necessarily agree with figures calculated from rounded data.

### Race and ethnicity

The instruction for the race item on the Patient Record form was changed in 1999 to be consistent with standards issued by the Office of Management and Budget to promote comparability of data among Federal data sources and so that more than one race could be recorded per person (22). The new race item includes the following groups: white, black or African American, Asian, Native Hawaiian or Other Pacific Islander, and American Indian or Alaska Native. Respondents could check multiple categories for each patient. Prior to 1999, only a single race category could be checked per person. Because of the difference between single and multiple race reporting, race-specific estimates prior to 1999 are not strictly comparable with those from 1999 and subsequent years. From 1999 to the present, only a small proportion of records had multiple races indicated. Where reliable multiple-race estimates can be obtained, they are presented in

Table II. Characteristics of the 2003 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 distribution <sup>4</sup> (weighted) | Nonresponding physician distribution <sup>5</sup> (weighted) | Weighted response rate <sup>6</sup> |
|--|--|---|---|--|-------------------------------------|
| All office-based physicians . . . . .  | 2,007  | 100.0   | 100.0   | 100.0  | 0.663                               |
| Age                                    |  |   |   |  |                                     |
| Under 50 years . . . . .               | 960  | 50.3  | 51.1  | 48.7   | 0.673                               |
| 50 years and over . . . . .            | 1,047  | 49.7  | 48.9  | 51.3   | 0.652                               |
| Sex <sup>7</sup>                       |  |   |   |  |                                     |
| Male . . . . .                         | 1,649  | 79.2  | 77.1  | 83.5   | 0.645                               |
| Female . . . . .                       | 358  | 20.8  | 22.9  | 16.5   | 0.732                               |
| Region                                 |  |   |   |  |                                     |
| Northeast . . . . .                    | 473  | 22.0  | 21.4  | 23.1   | 0.645                               |
| Midwest . . . . .                      | 446  | 22.5  | 22.4  | 22.5   | 0.662                               |
| South . . . . .                        | 623  | 32.9  | 34.4  | 29.7   | 0.695                               |
| West . . . . .                         | 465  | 22.7  | 21.7  | 24.6   | 0.634                               |
| Metropolitan status                    |  |   |   |  |                                     |
| MSA <sup>8</sup> . . . . .             | 1,805  | 88.6  | 87.8  | 90.2   | 0.657                               |
| Not MSA <sup>8</sup> . . . . .         | 202  | 11.4  | 12.2  | 9.8  | 0.708                               |
| Type of doctor                         |  |   |   |  |                                     |
| Doctor of medicine . . . . .           | 1,850  | 94.0  | 93.8  | 94.5   | 0.661                               |
| Doctor of osteopathy . . . . .         | 157  | 6.0   | 6.2   | 5.5  | 0.688                               |
| Specialty <sup>7</sup>                 |  |   |   |  |                                     |
| General and family practice . . . . .  | 287  | 18.0  | 19.0  | 16.1   | 0.699                               |
| Internal medicine . . . . .            | 123  | 15.0  | 14.0  | 16.9   | 0.620                               |
| Pediatrics . . . . .                   | 111  | 8.6   | 10.2  | 5.3  | 0.789                               |
| General surgery . . . . .              | 121  | 3.9   | 4.3   | 3.3  | 0.718                               |
| Obstetrics and gynecology . . . . .    | 121  | 7.9   | 6.9   | 9.8  | 0.579                               |
| Orthopedic surgery . . . . .           | 117  | 4.9   | 4.8   | 5.1  | 0.650                               |
| Cardiovascular diseases . . . . .      | 165  | 4.6   | 4.3   | 5.3  | 0.615                               |
| Dermatology . . . . .                  | 96   | 2.2   | 2.4   | 1.8  | 0.717                               |
| Urology . . . . .                      | 121  | 2.2   | 2.1   | 2.3  | 0.649                               |
| Psychiatry . . . . .                   | 151  | 5.3   | 5.1   | 5.5  | 0.649                               |
| Neurology . . . . .                    | 163  | 2.0   | 1.9   | 2.2  | 0.625                               |
| Ophthalmology . . . . .                | 102  | 4.1   | 4.2   | 4.0  | 0.675                               |
| Otolaryngology . . . . .               | 117  | 2.1   | 2.4   | 1.6  | 0.747                               |
| All other specialties . . . . .        | 212  | 19.2  | 18.4  | 20.7   | 0.635                               |
| Specialty type <sup>9</sup>            |  |   |   |  |                                     |
| Primary care . . . . .                 | 625  | 48.2  | 48.8  | 47.1   | 0.670                               |
| Surgical . . . . .                     | 649  | 23.4  | 23.9  | 22.4   | 0.677                               |
| Medical . . . . .                      | 733  | 28.4  | 27.3  | 30.5   | 0.638                               |
| Practice type                          |  |   |   |  |                                     |
| Solo . . . . .                         | 610  | 28.2  | 27.7  | 29.2   | 0.651                               |
| Two physicians . . . . .               | 147  | 6.9   | 6.8   | 7.1  | 0.653                               |
| Group or HMO <sup>10</sup> . . . . .   | 706  | 33.8  | 34.4  | 32.8   | 0.674                               |
| Medical school or government . . . . . | 50   | 2.4   | 2.6   | 1.8  | 0.743                               |
| Other . . . . .                        | 40   | 2.1   | 2.4   | 1.7  | 0.729                               |
| Unclassified . . . . .                 | 454  | 26.5  | 26.1  | 27.3   | 0.652                               |
| Annual visit volume <sup>7,11</sup>    |  |   |   |  |                                     |
| Low . . . . .                          | 686  | 33.0  | 35.7  | 27.8   | 0.716                               |
| Medium . . . . .                       | 670  | 33.3  | 31.0  | 37.8   | 0.617                               |
| High . . . . .                         | 651  | 33.7  | 33.4  | 34.3   | 0.656                               |

<sup>1</sup>Characteristic information is from the master files of the American Medical Association and the American Osteopathic Association.<sup>2</sup>In-scope physicians are those who verified that they were non-Federal and involved in direct patient care in an office-based setting, excluding the specialties of radiology, pathology, and anesthesiology.<sup>3</sup>Total physicians are those who were selected from the master files of the American Medical Association and the American Osteopathic Association.<sup>4</sup>Responding physicians are those who were in-scope and agreed to participate in the NAMCS.<sup>5</sup>Nonresponding physicians are those who were in-scope and refused to participate in the NAMCS.<sup>6</sup>Numerator is the number of in-scope physicians who participated in the NAMCS or who did not see any patients during their sampled reporting week. Denominator is all in-scope sampled physicians.<sup>7</sup>Chi-square test of association is significant at  $p < 0.05$  level.<sup>8</sup>MSA is metropolitan statistical area.<sup>9</sup>Specialty type is defined in table IV of the "Technical Notes."<sup>10</sup>HMO is health maintenance organization.<sup>11</sup>Low is the lowest third of annual visit volume, medium is the middle third, and high is the highest third.

**Table III. Reclassification of external cause-of-injury codes for use with National Ambulatory Medical Care Survey data**

| Intent and mechanism of injury  | Cause of injury code <sup>1</sup>   |
|---|---|
| Unintentional injuries . . . . .  | E800–E869, E880–E929  |
| Falls . . . . .   | E880.0–E886.9, E888   |
| Motor vehicle traffic . . . . .   | E810–E819   |
| Striking against or struck accidentally by objects or persons . . . . .   | E916–E917   |
| Overexertion and strenuous movements . . . . .  | E927  |
| Cutting or piercing instruments or objects . . . . .  | E920  |
| Natural and environmental factors . . . . .   | E900–E909, E928.0–E928.2  |
| Poisoning by drugs, medical substances, biologicals, other solid and liquid substances, gases, and vapors . . . . . | E850–E869   |
| Fire and flames, hot substance or object, caustic or corrosive material, and steam . . . . .                        | E890–E899, E924   |
| Machinery . . . . .   | E919  |
| Pedal cycle, nontraffic, and other . . . . .  | E800–E807(.3), E820–E825(.6), E826.1, E826.9  |
| Motor vehicle, nontraffic . . . . .   | E820–E825 (.0–.5,.7–.9)   |
| Other transportation . . . . .  | E800–E807(.0–.2,.8–.9), E826 (.0,.2–.8), E827–E829, E831, E833–E845                               |
| Firearm missile . . . . .   | E922  |
| Other and not elsewhere classified . . . . .  | E830, E832, E846–E848, E910–E913, E914–E915, E918, E923, E925–E926, E928.3, E928.8, E929.0–E929.5 |
| Mechanism unspecified . . . . .   | E887, E928.9, E929 (.8–.9)  |
| Intentional injuries . . . . .  | E950–E959, E960–E969, E970–E978, E990–E999  |
| Assault . . . . .   | E960–E969   |
| Self-inflicted . . . . .  | E950–E959   |
| Other causes of violence . . . . .  | E970–E978, E990–E999  |
| Injuries of undetermined intent . . . . .   | E980–E989   |
| Adverse effects of medical treatment . . . . .  | E870–E879, E930–E949  |

<sup>1</sup>Based on the “Supplementary Classification of External Causes of Injury and Poisoning,” *International Classification of Diseases, 9th Revision, Clinical Modification (ICD–9–CM) (10)*.

one category. Estimates for specific race categories reflect visits where only a single race was reported. See “Population figures and rate calculation” in the “Technical Notes” for more information.

According to the same standards, data on race and Hispanic or Latino origin were collected separately. Consequently, all race categories include visits by persons of Hispanic or Latino and not Hispanic or Latino origin. Persons of Hispanic or Latino origin may be of any race.

Finally, this report presents data on patient ethnicity, which has previously not been included in NAMCS summaries because of high item nonresponse rates. Fewer than half of U.S. States require hospitals to collect data on patient race and ethnicity (23). However, about 8 out of 10 Hispanic or Latino residents of the United States live in States that do mandate such collection according to the Census Bureau’s State population projections by Hispanic or Latino origin for the year 2000 (24). A previous report found that the item nonresponse rate for NHAMCS ethnicity data was 14.9 percent in the States that do mandate such collection compared with 24.4 percent for States

that do not (25). It is possible that there is a “spillover” effect in reporting of ethnicity in physician offices because the item nonresponse rate for this item has declined by 34 percent since 2001 (26).

### Injury groupings

Table 16 presents data on the intent and mechanism producing the injuries that resulted in visits to physician offices. Cause of injury is collected for each sampled visit in the NAMCS and is coded according to the ICD–9–CM’s “Supplementary Classification of External Causes of Injury and Poisoning.” However, for table 16, the first-listed cause-of-injury data were regrouped to highlight the interaction between intentionality of the injury and the mechanism that produced the injury. Table III shows the E-code groupings used to produce this table.

### Physician specialty groups

The NAMCS survey design grouped physicians into 15 strata, or specialty groups, for sampling purposes. One stratum, doctors of osteopathy, was based on information from the American Osteopathic Association. The other

groups (general and family practice, internal medicine, pediatrics, general surgery, obstetrics and gynecology, orthopedic surgery, cardiovascular diseases, dermatology, urology, psychiatry, neurology, ophthalmology, otolaryngology, and a residual category of other specialties) were developed based on information from the American Medical Association (AMA). Estimates are presented in this report with doctors of osteopathy combined with doctors of medicine unless otherwise noted. Table IV shows physician specialty groups split into three major categories: primary care, surgical specialties, and medical specialties based on the AMA classification.

### Population figures and rate calculation

The denominators used in calculating 2003 visit rates for age, sex, race, and geographic region are Census 2000-based postcensal estimates of the civilian noninstitutional population of the United States. The population estimates are special tabulations developed by the Population Division, U.S. Census Bureau, from the July 1, 2003, set of States population estimates

Table IV. Reclassification of physician specialty for use with National Ambulatory Medical Care Survey data

| Physician specialty group          | Physician specialty  |
|------------------------------------|--|
| Primary care specialties . . . . . | Family practice, geriatric medicine (family practice), sports medicine (family practice), general practice, internal medicine or pediatrics, internal medicine, adolescent medicine, pediatrics, pediatric sports medicine, adolescent medicine (internal medicine), gynecology, maternal and fetal medicine, obstetrics and gynecology, obstetrics, geriatric medicine (internal medicine), and sports medicine (internal medicine).  |
| Surgical specialties . . . . .     | Hand surgery, adult reconstructive orthopedics, foot and ankle orthopedics, musculoskeletal oncology, pediatric orthopedics, orthopedic surgery, sports medicine (orthopedic surgery), orthopedic surgery of the spine, orthopedic trauma, gynecological oncology, urology, pediatric urology, ophthalmology, pediatric ophthalmology, otology, otology-neurotology, otolaryngology, pediatric otolaryngology, general surgery, critical care medicine (obstetrics and gynecology), critical care (neurology), critical care (surgery), abdominal surgery, cardiovascular surgery, colon and rectal surgery, cardiothoracic surgery, facial plastic surgery, head and neck surgery, hand surgery (plastic surgery), oral and maxillofacial surgery, plastic surgery within the head and neck, neurological surgery, pediatric surgery (neurology), pediatric surgery, vascular surgery, plastic surgery, surgical oncology, thoracic surgery, transplant surgery, and traumatic surgery.   |
| Medical specialties . . . . .      | Allergy, addiction medicine, addiction psychiatry, allergy and immunology, allergy and immunology or diagnostic laboratory, immunology, clinical genetics, clinical biochemical genetics, clinical cytogenetics, clinical molecular genetics, clinical neurophysiology, critical care medicine, dermatological immunology or diagnostic laboratory, immunology, diabetes, emergency medicine, endocrinology, sports medicine (emergency medicine), medical toxicology (emergency medicine), gastroenterology, general preventive medicine, hematology, hepatology, hematology or oncology, cardiac electrophysiology, infectious diseases, immunology, legal medicine, medical management, medical genetics, nephrology, nutrition, occupational medicine, medical oncology, clinical pharmacology, pulmonary critical care medicine, pediatric emergency medicine (emergency medicine), public health and general preventive medicine, pediatric or diagnostic laboratory, immunology, palliative medicine, physical medicine and rehabilitation, pain medicine, medical toxicology (preventive medicine), pulmonary diseases, rheumatology, spinal cord injury, sleep medicine, and undersea medicine. |

by age, sex, and race. Population estimates of MSA status are based on data from the 2003 National Health Interview Survey (NHIS), NCHS, adjusted to the U.S. Census Bureau definition of core-based statistical areas as of December 2003. See <http://www.census.gov/population/www/estimates/metrodef.html> for more about MSA definitions.

Estimates of visit rates for MSAs and non-MSAs in 2003 may differ somewhat from those reported in 2002 and previous years because of methodological differences in how the denominators were calculated. In survey years 1992–2002, the NHIS used a 1992 definition of MSAs and non-MSAs. The NHIS also used 1990-based census estimates as controls for calculating population estimates through 2002. Because the NHAMCS used Census 2000-based estimates beginning in 2001, adjustments needed to be made to the MSA figures obtained from the NHIS in 2001 and 2002. For 2003, special tabulations were obtained from the Office of Analysis and Epidemiology, NCHS, where 2003 NHIS data were matched to the December 2003 U.S. Census Bureau definition of core-based statistical areas. The estimates were further adjusted based on the 2003 population estimates obtained from the Census Bureau.

Denominators used in computing estimates of visit rates by expected

source of payment were obtained from the 2003 NHIS, adjusted to 2003 noninstitutional census totals.

Individuals reporting multiple insurance categories in the NHIS were counted in each category they reported with the exception of Medicaid and SCHIP, which were combined into a single category.

Population estimates for race groups in the 2003 NAMCS and NHAMCS are based on Census 2000, in which respondents were able to indicate more than one race category (as requested by the 1997 Standards for Federal Data on Race and Ethnicity) (22). Starting with 2001, the denominators used for calculating race-specific visit rates reflect the transition to multiple-race reporting. Specific race denominators reflect persons with a single race identification, and a separate denominator is available for persons of multiple races. In this report, a visit rate for white persons, for example, uses a denominator that reflects the “white only” population, and the numerator is the number of visits in which white and no other race category was reported as the patient’s race by the health care provider.

Data indicate that multiple races are recorded less frequently in medical records than occur in the general population. The 2003 population estimates indicate that multiple-race persons account for 1.5 percent of the

total population, whereas multiple-race patients (as indicated by the provider) account for 0.3 percent of physician office visits. This difference exists because physicians are less likely to know and record the multiple-race preference of the patient and not because, after age-adjusting, persons with multiple races make fewer doctor visits. This implies that the race population rates calculated in 2003 are probably slight overestimates for the single-race categories and underestimates for the multiple-race category.

## Definition of terms

*Continuity of care*—Continuity of care is a goal of health care achieved through an interdisciplinary process involving patients, families, health care professionals, and providers in the management of a coordinated plan of care. Based on changing needs and available resources, the process optimizes quality outcomes in the health status of clients. It may involve professionals from many different disciplines within multiple systems.

*Drug mention*—A drug mention is the physician’s entry on the Patient Record form of a pharmaceutical agent—by any route of administration—for prevention, diagnosis, or treatment. Generic as well as brand-name drugs are included, as are

nonprescription and prescription drugs. Along with all new drugs, the physician records continued medications if the patient was specifically instructed during the visit to continue the medication. Physicians may report up to eight medications per visit.

*Drug visit*—A drug visit is a visit at which medication was prescribed or provided by the physician.

*Episode of care*—An episode of care is a term used to try to measure the nature of the care provided at the visit, an initial visit in contrast to a followup visit. An episode of care begins with the initial visit for care for a particular problem and ends when the patient is no longer continuing treatment. A problem may recur later, but that is considered a new episode of care. An initial visit may be diagnostic in nature whereas a followup visit may be to check progress or continue therapy.

*Followup visit*—A followup visit is a second or subsequent one in which care was previously provided for a specified problem or complaint.

*Illness-related visit*—A visit is considered illness-related if it was not defined as an injury visit as in the definition for an injury-related visit.

*Initial visit*—An initial visit is the first visit to this physician by this patient for care of a particular problem or complaint.

*Injury-related visit*—A visit is injury-related if “Yes” was checked in response to item 4a, “Is this visit related to injury, or poisoning, or adverse effect of medical treatment?” if a cause of injury or a nature of injury diagnosis was provided, or if an injury-related reason for the visit was reported.

*In-scope physician*—An in-scope physician is a duly licensed doctor of medicine (M.D.) or doctor of osteopathy (D.O.) who is currently in office-based practice and who spends some time caring for ambulatory patients. Excluded from the NAMCS are physicians who are hospital-based; who specialize in anesthesiology, pathology, or radiology; who are federally employed; who treat only institutionalized patients; or who are employed full time by an institution and spend no time seeing ambulatory patients.

*Office*—An office is the space identified by a physician as a location for his or her ambulatory practice. Offices customarily include consultation, examination, or treatment spaces that patients associate with the particular physician.

*Patient*—A patient is an individual seeking personal health care services who is not currently admitted to any health care institution on the premises.

*Primary care physician/provider*—A primary care physician or provider (PCP) plans and provides the comprehensive health care of the patient. A visit to the patient’s PCP is one in which health care is provided by the patient’s PCP or by a provider substituting for the patient’s PCP.

*Primary care specialist*—A primary care specialist has designated a primary care specialty of general and family practice, internal medicine, pediatrics, etc. Primary care specialists are grouped and presented in [table IV](#) of the “Technical Notes.” The terms “primary care specialties” and “primary care specialists” are used interchangeably throughout this report and refer to the self-designated classification by physicians in the AMA and AOA masterfiles.

*Primary expected source of payment*—The primary expected source of payment is the source that to the best of the physician’s or physician’s staff’s knowledge describes how charges incurred for this visit will be paid:

- Self-pay—Charges billed directly to the patient that will not be reimbursed by a third party. Does not include prepaid plans for which copayment is charged.
- Medicare—Charges paid in part or in full by a Medicare plan, including payments made directly to the physician as well as payments to the patient.
- Medicaid or SCHIP—Charges paid in part or in full by a Medicaid or State Children’s Health Insurance Program (SCHIP), including payments made directly to the hospital as well as payments to the patient. SCHIP, enacted as part of the Balanced Budget Act of 1997, gave States the

opportunity to provide free or low-cost insurance coverage to low-income children not otherwise eligible to be covered by Medicaid. States begin enrolling children in 1998 using Medicaid or State-specific programs separate from Medicaid or both. By 2000, all States had implemented their SCHIP programs.

- Private insurance—Charges paid in part or in full by a private insurance company, health maintenance organization (HMO) plan, or other prepayment plan, including independent practice associations (IPAs) and preferred provider organizations (PPOs).
- No charge or charity—Visits for which no fee is charged (not including visits paid for as part of a total care package, e.g., postoperative visits included in a surgical fee, pregnancy visits for which a flat fee was charged, and HMO and prepaid systems).
- Other sources—All other sources of payment not in the preceding categories. Charges paid under any other local, State, or Federal health care program such as worker’s compensation programs and CHAMPUS.
- Unknown—Cases where none of the previous sources of payment categories was checked.

*Visit*—A visit is a direct, personal exchange between an ambulatory patient seeking care and a physician or a staff member working under the physician’s supervision for the purpose of rendering personal health services. Excluded from the NAMCS are encounters where medical care was not provided, such as phone consultations and e-mail consultations, or at visits made to drop off specimens, pay bills, or make appointments.

*Visit rate*—The visit rate is a basic measure of service utilization for event-based surveys. The numerator is the number of estimated visits and the denominator is the corresponding U.S. population estimate for those who possibly could have made the visits. The interpretation is that for every person in the population there are  $x$  visits made. It

does not mean that  $x$  percent of the population made visits because some persons in the population make no visits and others make multiple visits within a given year. The only exception is when an event can occur just once for a person (e.g., if an appendectomy were performed during the visit). The visit rate is best used to compare amounts of utilization across various subgroups of interest such as age, race, or geographic region (e.g., the rate of U.S. physician office visits in 2003 was 337.2 visits per 100 white persons and 235.9 visits per 100 black or African American persons).

Form Approved OMB No. 0920-0234 Exp. Date 04/30/2005 CDC 64.148

|  |  |
|--|--|
| FORM <b>NAMCS-30</b><br>(10-9-2002)  | U.S. DEPARTMENT OF COMMERCE<br>Economics and Statistics Administration<br>U.S. CENSUS BUREAU<br>ACTING AS DATA COLLECTION AGENT FOR THE<br>U.S. Department of Health and Human Services<br>Centers for Disease Control and Prevention<br>National Center for Health Statistics |
|  | <b>NATIONAL AMBULATORY MEDICAL CARE SURVEY<br/>                 2003 PATIENT RECORD</b>  |
| <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 persons engaged in and for the purpose of the survey and will not be disclosed or released to other persons or used for any other purpose without consent of the individual or the establishment in accordance with section 308(d) of the Public Health Service Act (42 USC 242m). |  |

|   |  |   |  |
|---|--|---|--|
| <b>1. PATIENT INFORMATION</b>   |  | <b>2. REASON FOR VISIT</b>  |  |
| <b>a. Date of visit</b><br>Month Day Year<br>   | <b>e. Ethnicity</b><br>1 <input type="checkbox"/> Hispanic or Latino 2 <input type="checkbox"/> Not Hispanic or Latino   | <b>Patient's complaint(s), symptom(s), or other reason(s) for this visit - Use patient's own words.</b><br>(1) Most important:<br><br>(2) Other:<br><br>(3) Other:  |  |
| <b>b. ZIP code</b><br>  | <b>f. Race - Mark (X) one or more.</b><br>1 <input type="checkbox"/> White 4 <input type="checkbox"/> Native Hawaiian/<br>2 <input type="checkbox"/> Black/African Other Pacific Islander<br>3 <input type="checkbox"/> Asian 5 <input type="checkbox"/> American Indian/<br>6 <input type="checkbox"/> American Indian/ Alaska Native   |   |  |
| <b>c. Date of birth</b><br>Month Day Year<br>   | <b>g. Does patient use tobacco?</b><br>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Unknown   |   |  |
| <b>d. Sex</b><br>1 <input type="checkbox"/> Female<br>2 <input type="checkbox"/> Male   | <b>h. Primary expected source of payment for this visit - Mark (X) one.</b><br>1 <input type="checkbox"/> Private insurance 5 <input type="checkbox"/> Self-pay<br>2 <input type="checkbox"/> Medicare 6 <input type="checkbox"/> No charge/Charity<br>3 <input type="checkbox"/> Medicaid/SCHIP 7 <input type="checkbox"/> Other<br>4 <input type="checkbox"/> Worker's Compensation 8 <input type="checkbox"/> Unknown     |   |  |
| <b>3. CONTINUITY OF CARE</b>  |  |   |  |
| <b>a. Are you the patient's primary care physician?</b><br>1 <input type="checkbox"/> Yes<br>2 <input type="checkbox"/> No<br>3 <input type="checkbox"/> Unknown  | <b>b. Have you or anyone in your practice seen this patient before?</b><br>1 <input type="checkbox"/> Yes, established patient - How many past visits in the last 12 months? Exclude this visit.<br>1 <input type="checkbox"/> None<br>2 <input type="checkbox"/> 1-2<br>3 <input type="checkbox"/> 3-5<br>4 <input type="checkbox"/> 6+<br>5 <input type="checkbox"/> Unknown<br>2 <input type="checkbox"/> No, new patient | <b>c. Major reason for this visit</b><br>1 <input type="checkbox"/> Acute problem (<3 mos. onset)<br>2 <input type="checkbox"/> Chronic problem, routine<br>3 <input type="checkbox"/> Chronic problem, flare-up<br>4 <input type="checkbox"/> Pre-/Post-surgery<br>5 <input type="checkbox"/> Preventive care (e.g., routine prenatal, general exam, well-baby, screening, insurance exam)   | <b>d. Do other physicians share patient's care for this problem or diagnosis?</b><br>1 <input type="checkbox"/> Yes<br>2 <input type="checkbox"/> No<br>3 <input type="checkbox"/> Unknown   |
| <b>4. INJURY/POISONING/ADVERSE EFFECT</b>   |  | <b>5. PHYSICIAN'S DIAGNOSIS FOR THIS VISIT</b>  |  |
| <b>a. Is this visit related to an injury, or poisoning, or adverse effect of medical treatment?</b><br>1 <input type="checkbox"/> Yes<br>2 <input type="checkbox"/> No - SKIP to item 5.  | <b>b. Cause of injury, poisoning, or adverse effect - Describe the place, intentionality, and events that preceded the injury, poisoning, or adverse event (e.g., allergy to penicillin, bee sting, pedestrian hit by car driven by drunk driver, wife beaten with fists by husband, heroin overdose, infected shunt, etc.).</b><br>_____<br>_____   | As specifically as possible, list diagnoses related to this visit including chronic conditions.<br>(1) Primary diagnosis:<br><br>(2) Other:<br><br>(3) Other:   |  |
| <b>6. DIAGNOSTIC/SCREENING SERVICES</b>   |  |   |  |
| Mark (X) all ordered or provided at this visit.<br>1 <input type="checkbox"/> NONE<br>2 <input type="checkbox"/> General medical exam<br>3 <input type="checkbox"/> Other exam - Specify site (e.g., breast, rectal) _____<br>4 <input type="checkbox"/> Temperature Specify _____  | 5 <input type="checkbox"/> Blood pressure - Specify _____<br>6 <input type="checkbox"/> Urinalysis (UA)<br>7 <input type="checkbox"/> Urine culture<br>8 <input type="checkbox"/> PAP test<br>9 <input type="checkbox"/> Cervical/Urethral culture<br>10 <input type="checkbox"/> PSA (prostate specific antigen)<br>11 <input type="checkbox"/> Hematocrit/Hemoglobin   | 12 <input type="checkbox"/> CBC (complete blood count)<br>13 <input type="checkbox"/> Lipids/Cholesterol<br>14 <input type="checkbox"/> Glucose<br>15 <input type="checkbox"/> HgbA1C (glycohemoglobin)<br>16 <input type="checkbox"/> Electrolytes<br>17 <input type="checkbox"/> Other blood test _____<br>18 <input type="checkbox"/> EKG/ECG (electrocardiogram)<br>19 <input type="checkbox"/> Throat culture/Rapid strep test<br>20 <input type="checkbox"/> Stool culture<br>21 <input type="checkbox"/> X-ray | 22 <input type="checkbox"/> Mammography<br>23 <input type="checkbox"/> Other imaging<br>24 <input type="checkbox"/> Scope procedure (e.g., colonoscopy) - Specify _____<br>25 <input type="checkbox"/> Other service - Specify _____ |
| <b>7. COUNSELING/EDUCATION/THERAPY</b>  |  | <b>8. SURGICAL PROCEDURES</b>   |  |
| Mark (X) all ordered or provided at this visit. Exclude medications.<br>1 <input type="checkbox"/> NONE<br>2 <input type="checkbox"/> Asthma education<br>3 <input type="checkbox"/> Diet/Nutrition<br>4 <input type="checkbox"/> Exercise<br>5 <input type="checkbox"/> Growth/Development<br>6 <input type="checkbox"/> Mental health/Stress management |  | List up to 2 surgical procedures ordered, scheduled, or performed at this visit.<br><input type="checkbox"/> NONE (1) _____<br>(2) _____  |  |
| <b>9. MEDICATIONS &amp; INJECTIONS</b>  |  | <b>10. VISIT DISPOSITION</b>  |  |
| <b>a. What is the total number of drugs prescribed or provided at this visit?</b><br>_____ Number of drugs<br>Include Rx and OTC medications, immunizations, allergy shots, anesthetics, and dietary supplements that were ordered, supplied, administered or continued during this visit.  |  | Mark (X) all that apply.<br>1 <input type="checkbox"/> No follow-up planned<br>2 <input type="checkbox"/> Return if needed, PRN<br>3 <input type="checkbox"/> Refer to other physician<br>4 <input type="checkbox"/> Return at specified time<br>5 <input type="checkbox"/> Telephone follow-up planned<br>6 <input type="checkbox"/> Admit to hospital<br>7 <input type="checkbox"/> Other   |  |
| <b>b. List up to 8 medication/injection names below.</b><br>(1) _____ (5) _____<br>(2) _____ (6) _____<br>(3) _____ (7) _____<br>(4) _____ (8) _____  |  | <b>11. PROVIDERS SEEN</b><br>Mark (X) all that apply.<br>1 <input type="checkbox"/> Physician<br>2 <input type="checkbox"/> RN<br>3 <input type="checkbox"/> LPN<br>4 <input type="checkbox"/> Medical/Nursing assistant<br>5 <input type="checkbox"/> Nurse practitioner/Midwife<br>6 <input type="checkbox"/> Physician assistant<br>7 <input type="checkbox"/> Medical technician/technologist<br>8 <input type="checkbox"/> Other   |  |
|   |  | <b>12. TIME SPENT WITH PHYSICIAN</b><br>Minutes _____ Enter zero if no physician seen   |  |

NAMCS-30 (10-9-2002)

Figure 1. Patient record form

**Trade name disclaimer**

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