# Utilization of Ambulatory Medical Care by Women: United States, 1997-98 

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# Utilization of Ambulatory Medical Care by Women: United States, 1997-98 

Data From the National Health Care Survey

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## Objectives

This report presents national estimates of the volume and characteristics of ambulatory medical care provided to women 15 years of age and over in the United States. Included is information on the characteristics of the patients, providers, and visits. A section on comparative differences in use by sex is also included.

## Source of Data

This report is based on an analysis of data from the 1997 and 1998 National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS), national probability sample surveys of visits to office-based physicians (NAMCS) and visits to the outpatient departments and emergency departments of non-Federal, short-stay and general hospitals (NHAMCS) in the United States. Sample data are weighted to produce annual estimates.

## Results

Approximately 500 million visits were made by women to ambulatory medical care providers annually in 1997 and 1998, representing an age-adjusted rate of 4.6 visits per woman per year. The rate of ambulatory medical care visits increased with age (3.8 per woman 15-44 years of age, 4.7 visits per woman 45-64 years of age, and 7.1 visits per woman 65 years of age and over). Six out of ten visits to office-based physicians and hospital outpatient departments had no mention of therapeutic or preventive services provided. Nonnarcotic analgesics, antidepressant, and estrogen/progestin were the three most common classifications of medications mentioned. Compared with visits by men, visits by women (with nonpregnancy-related diagnoses) were more frequent at younger ages and more likely to be to primary care physicians and outpatient departments.

Keywords: women's health • ambulatory care visits • health care utilization

# Utilization of Ambulatory Medical Care by Women: United States, 1997-98 

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## Highlights

- Approximately 500 million visits were made by women to ambulatory medical care providers each year in 1997 and 1998. This represents an age-adjusted annual rate of 4.6 visits per woman per year (table 1 ).


## Patient Characteristics

- Among all visits made by women 15 years of age and older, 46 percent were made by reproductive-aged women (15-44 years of age). However, women in this age group represent 56 percent of all women over 15 years of age (table 1).
- The rate of all ambulatory medical care visits increased with age, from 3.8 per woman $15-44$ years of age to 4.7 visits per woman $45-64$ years of age and 7.1 visits per woman 65 years of age and over (table 1).
- Visits by women 15-44 years of age were more likely to be to primary care physicians and emergency departments than visits by older women. Senior women were more likely to be seen by physicians in surgical and nonsurgical specialties (table 1).
- Compared with white women, black women had higher rates of visits for hypertension ( 85 percent higher), complications of pregnancy
(81 percent higher), arthropathies ( 50 percent higher), and diabetes (138 percent higher) (figure 7).


## Provider Characteristics

- More than four out of five ambulatory medical care visits were made to office-based physicians. The remaining visits were equally split between hospital outpatient departments and emergency departments (table 2).
- Almost all women, regardless of age or race, saw a physician during ambulatory medical care visits ( 95 percent overall). Women also saw registered nurses ( 17 percent of visits), licensed practical nurses (11 percent of visits), and/or medical/nursing assistants ( 23 percent of visits) during ambulatory care visits (table 3).


## Visit Characteristics

- While the expected source of payment for 50 percent of visits was private insurance, visits by white women were 1.3 times as likely to be covered by private insurance as

[^1]were visits by black women. Conversely, visits by black women were three times as likely as white women to be covered by Medicaid, which overall covered 9 percent of visits (table 4).

- The most frequently cited reasons for office-based and outpatient hospital ambulatory care visits were chronic conditions (39 percent), acute conditions (31 percent), and preventive care or other non-illness purposes (21 percent) (table 5).
- Thirty-one percent of visits for women 15-44 years of age were for preventive care and other non-illness reasons compared with 10 percent of visits in the 65 and older age group figure 4).
- The most frequently cited specific reasons for ambulatory visits were general medical examination (7 percent of total adult female visits), routine prenatal examination (6 percent), and progress visit (4 percent) (table 6).
- The most common diagnostic groups noted for visits by women were normal pregnancy (6 percent), essential hypertension (4 percent) and arthropathies (3 percent) (table 7).
- Injury- and poisoning-related visits represented 11 percent of all ambulatory care visits (table 8). Rates of injury-related visits increased from 46 visits per 100 women in the 15-44 age group to 66 visits per 100 women in the 65 and over age group-a 43 percent increase (figure 8).
- The leading causes of injury visits by women were falls ( 17 percent) and motor vehicle crashes (11 percent) (table 9).
- The most common diagnostic or screening service ordered or performed during ambulatory medical care visits was blood pressure screening ( 56 percent of all visits), pelvic exam (14 percent), and urinanalysis (14 percent) (table 10).
- The rate of mammography use among women 65 years of age and over was 29 percent lower than the rate for women 45-64 years of age (19.3 versus 27.1 visits per 100 women) (figure 9).
- Of visits by women 15 years of age and over to office-based physicians and hospital outpatient departments, 41 percent included one or more therapeutic or preventive service. Diet ( 15 percent) and exercise (11 percent) counseling were the two most common types of services reported in this category (table 11).
- When analyzed using only the 20 major therapeutic classes, drugs for the cardiovascular-renal system, hormones, and central nervous system were the top classes of drugs used by women 15 years of age and over in 1997-98. When the detailed classes of drugs are analyzed, nonnarcotic analgesics, antidepressant, and estrogen/progestin were the three most common classifications of medications mentioned (figure 12).
- Visits by senior women were more likely to have had medication provided or prescribed and to have multiple drugs provided or prescribed than were visits by younger women (figure 11).
- Acetaminophen and estrogen were the two generic substances most frequently used in drugs ordered or provided during ambulatory care visits by women of all ages, occurring in 3.6 percent and 2.2 percent of drug mentions, respectively (table 13).
- The rate of ambulatory care use among women with nonpregnancy related diagnoses was 33 percent higher than that for men. This difference by sex in the rate of ambulatory care use did not differ by race, and decreased with age from over 50 percent more visits by women 15-44 years of age than men in this age group to virtually no difference in the rate of visits by women and men 65 years of age and over (figure 16).
- The age-adjusted rate of visits by women with nonpregnancy related diagnoses to primary care physicians was 58 percent higher and to outpatient departments was 40 percent higher than the rate of visits to these providers by men (figure 17).
- Utilization rates categorized by major reason for visit disclose that while the visit rates by women were at least somewhat higher for all types of care, the rate of visits by women for non-illness (for example, annual examinations) was 100 percent higher than among men, after controlling for age and removing pregnancy-related visits (table 15).
- There were large differences in the rate of drug mentions by sex for medications with central nervous system mechanisms. The age-adjusted rate of antidepressant mentions among women was 95 percent of the rate of all CNS medication mentions in visits by men.


## Introduction

IImproving the health of all Americans has long been a major goal for this Nation. It has only been in the last 20 years, however, that it has been generally recognized that the health concerns of women are different from the health concerns of the population as a whole. Recent Federal reports have emphasized the need for more information on the health of women in the United States, the lack of commitment to health research specific to women, and strategies for improving women's health $(1,2)$. The term "women's health," while originally associated with the reproductive health of women, has expanded over time to include all the factors that affect a woman's health and quality of life throughout her lifespan (3).

One set of factors that has profound effects on the health of women is the manner in which health care is provided and utilized. For example, the use of preventive health services should reduce future morbidity and mortality. While it is widely acknowledged that women have greater use of medical care (4), this does not mean that the utilization is correctly distributed by type and amount relative to need. Furthermore, medical care utilization information is important in debates about the allocation of health
care resources. Policy regarding health and health care must be grounded on such information.

Much of the recent literature on women's health has been based on survey research where women are asked about their health and health care. Such studies can be affected by recall bias and general memory problems. Encounter-based studies have the advantage of including specific medical information about diagnosis and treatment provided at medical encounters as well as accurate counts of medical visits. In these respects, encounter-based studies add a new vantage point from which to evaluate the state of health and health care for U.S. women. Data from the ambulatory care component of the National Health Care Survey, conducted by the CDC's National Center for Health Statistics, has been used to provide descriptive statistics on the utilization of ambulatory medical care resources in the United States. A detailed review of the variation in health care utilization by women of different ages and races using encounter-based data has not been conducted recently and is the purpose of this report.

The National Ambulatory Medical Care Survey (NAMCS) was begun in 1973 to collect data on the utilization of ambulatory medical care provided by office-based physicians in the United States. In 1992, the National Hospital Ambulatory Care Survey (NHAMCS) was begun to collect information on outpatient department and emergency department visits, to more fully provide information on all ambulatory care utilization. The surveys are complementary, and although the data collection instruments are slightly different for each of the three types of medical care settings, many items are the same. Areas of comparability include patient characteristics, patient's reason for visit, expected source of payment, physician's diagnosis, external cause of injury for injury-related visits, and medication therapy. Other items, for example diagnostic services and type of provider seen, are collected similarly for office-based physician visits and outpatient department visits.

This summary report combines the NAMCS and NHAMCS data for 1997 and 1998 to highlight new information on the use of ambulatory care medical visits by women in the United States. The timing of this report was chosen to highlight new data obtained due to changes made to the sampling universe and the data collection instrument used for NAMCS and NHAMCS in 1997. The purpose of these changes was to collect more information on services provided to women. Family planning clinics were included within the scope of office-based physicians for the first time. The data collection tool includes new checkboxes that specifically relate to issues of women:

- Pregnancy status was added to the patient characteristics section.
- Items for breast and pelvic examinations, Pap test, pregnancy test, and mammography and ultrasound were added to the diagnosis/screening services section.
- Items for family planning/ contraception, prenatal instructions, and breast self-exam were added to the therapeutic and preventative services section.
- Nurse-midwife was added as a possible provider seen.

Detailed information on women's use of ambulatory medical care is generally not included in the annual summary reports from NAMCS and NHAMCS. This report focuses on women, but also includes limited information on use by men for comparisons. The information provided is relevant for research into how differences in sex may influence health and treatment (5). For additional information on ambulatory care utilization, refer to the annual summary reports (6-11).

## Methods

The data for this report are from the ambulatory care component of the National Health Care Survey, specifically NAMCS and NHAMCS. These are surveys of non-Federal officebased physicians and hospital
emergency departments (ED) and outpatient departments (OPD) of short-stay and general hospitals. Information from a sample of visits to the provider during a randomly assigned reporting period are abstracted onto a one-page encounter form. The encounter form contains items about the characteristics of the patient such as race, sex, and age, and characteristics of the visit such as expected source of payment, physician's diagnosis, tests ordered or provided, medications prescribed or provided, and disposition. The data from the 1997 and 1998 NAMCS and NHAMCS were weighted to yield average annual national estimates of ambulatory care utilization. Sampling and data collection methods are described elsewhere (6-13).

Data are centrally processed, including classification and coding of entries such as diagnosis and medications. Diagnoses were coded to the ICD-9-CM as were causes of injury (14). Therapeutic class of medications was coded to the National Drug Code Directory (15). The patient's reason for visit was coded to the "A Reason for Visit Classification" (RVC) (16). In 1997 and 1998, the NAMCS sampled approximately 2,500 office-based physicians not in the specialties of radiology, pathology, or anesthesiology. The response rate ranged between 68-70 percent for each year and resulted in approximately 42,000 medical record abstractions. The NHAMCS data are obtained from approximately 485 hospitals each year with a response rate between 95-97 percent. This resulted in about 44,000 emergency patient records and 60,000 OPD records for the 2 years. Each physician contributed approximately 30 patient records from a 1-week reporting period, each ED contributed approximately 50 patient records from a 4 -week reporting period, and each OPD contributed approximately 150 records during the same 4 -week reporting period. Only one-half of the sampled hospitals had an outpatient department that included clinics run under the supervision of a physician. Ancillary clinics such as radiology and laboratories were excluded from the survey. The reporting
periods for both NAMCS and NHAMCS were distributed across the entire calendar year to control for any temporal effects on the distribution of types of ambulatory care encounters. Each year a new sample of physicians was taken for the NAMCS whereas approximately the same set of hospitals was used in the NHAMCS every year.

Sampling weights were applied to provide annual national estimates. The weights include factors representing the selection of the primary sampling unit (PSU), the hospital or physician within the PSU, and the visits within the specific provider. Adjustment factors for provider nonresponse are also included. Because of the complex sample design, SUDAAN was used to calculate standard errors for the reported estimates (17). In addition to sampling errors, the survey data are also subject to nonsampling error such as omissions, mistakes in reporting, and processing errors. The quality control error rate on diagnosis coding was 1.1 percent. See the Technical Notes for more details on the estimation process and interpreting sampling errors.

The NAMCS and NHAMCS are record-based surveys where patients making multiple visits to providers have greater opportunities for selection. Therefore, the visit data must not be confused with person-level data. As
such, incidence of acute or chronic conditions cannot be made from these data. However, utilization rates were calculated that provide the number of ambulatory care visits per 100 persons living in the United States. The denominators for population rates are based on an average of the U.S. civilian, noninstitutionalized population of July 1, 1997, and July 1, 1998, adjusted for census underenumeration (see Technical Notes). The population rates for totals of all age groups have been age-adjusted to the 2000 standard.

For the purposes of this report, estimation of ambulatory medical care by women was based on encounter records for females who were at least 15 years old at the time of the sampled visit. Because the age of the woman is directly related to utilization, visits were categorized into three age groups; 15-44 years, 45-64 years, and 65 years and older. Many of the tables also present results separately for visits made by white and black women. There were too few visits sampled to make separate detailed estimates for women of other racial backgrounds. Analyses by Hispanic origin could not be made due to the large proportion of records with missing data on ethnicity. The Technical Notes also include the physician specialties that were aggregated to differentiate between primary care,
surgical and nonsurgical specialties that are used in several of the analyses used in the report.

## Results

Overall, approximately 500 million visits to ambulatory care medical providers were made by women 15 years of age and over each year in 1997 and 1998. This represents an age-adjusted annual rate of 4.6 visits per woman. Selected patient, provider, and visit characteristics for these visits are described in the following text.

## Patient Characteristics

While 46 percent of all ambulatory medical care visits by women 15 years of age and over were made by younger women (15-44 years of age), the utilization rate increased with age (table 1). The rate of visits by women 65 years of age and over was 87 percent higher, and the rate of visits by women 45-64 years of age were 25 percent higher than the rate of visits by women $15-44$ years of age ( 3.8 visits per woman). The rate of use by white, black, and Asian/Pacific Islander (data not shown) women were similar.


Figure 1. Women's ambulatory care visits by specialty, place of care, and age


Figure 2. Women's office-based physician visits by physician's specialty

## Provider Characteristics

When only categorizing providers as office-based, hospital outpatient departments and emergency rooms, more than four out of five ambulatory care visits in 1997-98 by women 15 years of age and over were to office-based physicians. The remaining visits were equally split between hospital outpatient departments and emergency departments (table 2). The distribution of visits to various providers varied by patient's age, however, with younger women more likely to make visits to primary care physicians and emergency departments compared with older women ( 65 years of age and over), who had a relatively higher probability of making visits to physicians in surgical and nonsurgical specialties (figure 1) (see Technical Notes for explanation of categories used).

Providers were then broken down into specialties within each of the major provider categories (table 2). Among
visits by women to office-based physicians, the majority were to either general and family practice physicians (25 percent), internal medicine physicians (18 percent), or obstetricians and gynecologists (18 percent). Ophthalmology was the next most common practice type, accounting for 7 percent of all office-based visits (figure 2). Among visits to hospital outpatient departments, 65 percent were to general medicine clinics, while 16 percent were to obstetric/gynecology clinics.

Most women, regardless of age or race, saw a physician during medical ambulatory care visits. Almost 95 percent of all visits by women involved being seen by a physician. However, women were also likely to see additional medical providers, such as a registered nurse (17 percent of visits), licensed practical nurse (11 percent of visits), or a medical/nursing assistant (23 percent of visits) (table 3).

## Visit Characteristics

## Primary Expected Source of Payment

The most frequent sources of payment for ambulatory care visits by women were private insurance (50 percent), Medicare ( 22 percent), and Medicaid (9 percent) (table 4).

Large differences in the rate of visits by primary source of payment were observed between black and white women (figure 3). The proportion of visits covered by private insurance was 1.3 times as high among white women as among black women. In contrast, the proportion of ambulatory visits by black women covered by Medicaid was more than three times as high as the proportion of Medicaid visits by white women.

Almost one-quarter of ambulatory care visits were made by women who were members of a health maintenance organization (HMO). Visits by older women ( 65 years of age and older) were less likely to be made by HMO members than younger women (data not shown), although this is most likely a function of the limited availability of Medicare/HMO plans.

## Reason for Visit

The major reason for visit item on the physician office and OPD data collection instrument collects information on the general nature of the ambulatory care visit-whether for an acute problem; routine chronic problem; flare-up of a chronic problem; pre- or post-surgery visit, or injury followup, or for non-illness care including routine medical examinations and prenatal care. The most frequently cited reasons for office-based and outpatient hospital ambulatory care visits were chronic conditions (39 percent), acute conditions (31 percent), and non-illness and preventive care ( 21 percent) (table 5).

The percentage of ambulatory care visits for both acute care and non-illness/preventive purposes by women decreased with age, while chronic condition and pre/post surgery visits increased with age. For example, among visits by women 15-44 years of


Figure 3. Age-adjusted female visit rates by expected source of payment and race
age, 27 percent of visits were for chronic conditions compared with 51 percent for chronic conditions in the 65 and older age group. Thirty-one percent of visits for women ages 15-44 were for non-illness reasons compared with 10 percent of visits in the 65 and older age group (figure 4). This is consistent with the changes in type of provider seen by older and younger women (figure 1).

The principal reason for visit is the most important problem, complaint, or reason for the visit as reported by the patient. The specific reasons for ambulatory visits cited by women most often were general medical examination (7 percent of total adult female visits), routine prenatal examination (6 percent), and progress visit (4 percent) (table 6). As seen in figure 5, the proportion of visits for the most common reasons for visit varied little by age, except for prenatal care and vision dysfunction. Prenatal care represented 12 percent of all visits among women 15-44 years of age and was the second most common reason for visit for all ages.

The 1997 and 1998 NAMCS and NHAMCS data form included a checkbox on pregnancy status. The


Figure 4. Women's major reason for visit by age


Figure 5. Women's specific reason for visit by age
reason for visit for 70 percent of all visits by women noted as being pregnant was routine prenatal care (figure 6). General medical examinations
(6 percent) and problems of pregnancy
( 2 percent) were the next most common reasons for visits among pregnant women. However, since pregnancy


Figure 6. Reason for visit by pregnant women
status was missing for approximately 28 percent of visits by women of child-bearing age, it is possible that the pregnancy information was recorded on the NAMCS/NHAMCS form only if the physician or hospital staff thought it pertinent to the visit (that is, pregnancy-related diagnosis).

## Diagnostic Groups

Physician's diagnoses differ from patent's reasons for visit in the source of data and in the coding scheme used. Diseases and conditions, rather than symptoms, are obtained and general issues such as general physical examination are not as frequently noted. The most common diagnostic groups noted were normal pregnancy (6 percent), essential hypertension (4 percent), and arthropathies (3 percent) (table 7).

The rate of visits by white women differed substantially from that of black women on some of the most frequently noted diagnostic groups (figure 7). Compared with the rate of visits by white women, the rate of visits by black women with diagnoses of hypertension was 83 percent higher, the rate of visits for complications of pregnancy was 81 percent higher, the rate of visits with diagnoses of arthropathies (for example, osteoarthrosis) was 50 percent higher, and the rate of visits with diagnoses of diabetes was 138 percent higher. These racial discrepancies increase as women age. Compared with younger white women, younger black women had more visits for childbirth complications (17.5 and 9.6 per 100 women) and inflammatory pelvic disorders (11.2 and 5.2 per 100 women). White women between 45-64 years of age were more likely than black women to make visits for menopause-related conditions (11.3 and 4.0 visits per 100 women, respectively). They were also more likely to make visits for cataracts but less likely to make them for glaucoma. By age 65 years and older, white women were twice as likely as black women to make a cataract visit (31.3 versus 15.4 visits per 100 women), and three times as likely to make visits for ischemic heart disease ( 23.9 visits versus 7.6 visits per 100 women). It is


Figure 7. Age-adjusted female visit rates for selected diagnostic groups by race
interesting to note that the utilization rates for general medical exams and gynecological exams are higher for senior black women compared with white women, while white women make more visits for preventive exams at younger ages.

## Injury-Related Visits

In 1997-98, injury- and poisoningrelated visits represented 11 percent of all ambulatory care visits by women. Approximately 54,611,000 visits were made due to injury or poisonings (table 8).

As a percentage of all annual ambulatory visits, injury-related office visits by women declined somewhat with age. Rates of injury-related office visits per 100, however, increased with age. Rates of injury-related visits increased from 46 visits per 100 in the 15-44 age group to 66 visits per 100 in the 65 and over age group-a 43 percent increase (figure 8).

Although 27 percent of all injury-related visits were missing information on place of occurrence, the data suggest that the home is one of the most frequent places of injury for women. Approximately 11 million ambulatory care visits by women involved injuries that occurred in the home, a rate of over 10 visits per 100 women. Streets or highways were the
second most frequent place of injury, at a rate of 6 visits per 100 women (table 9). It should be noted that one injury may result in multiple health care encounters for diagnosis and treatment.

The leading cause of injury visits by women were falls ( 17.2 percent) and motor vehicle crashes (11.2 percent) (table 9). The nature of the injuries at ambulatory visits by women varied only slightly by race. Senior white women were more likely to make ambulatory
visits for bone fractures compared with black women; however, middle-aged black women were more likely than white women to make visits for sprains and strains. The visit rate for intentional injuries was higher for young black women compared with white women ( 3.5 versus 1.7 visits per 100 women, respectively). The majority of these injuries were from assaults as opposed to self-infliction or suicide attempts (data not shown).


Figure 8. Age-adjusted female visit rates of injury visits by age and race


Figure 9. Female visit rates for selected diagnostic and screening services by age

## Diagnostic and Screening Services

Four out of five visits to physician offices and outpatient departments by women 15 years of age and over had
some type of diagnostic or screening service ordered or provided (table 10). The most common procedure performed during visits was blood pressure screening, which women in 56 percent of all visits received. Other common diagnostic and screening procedures
received were pelvic exams (14 percent) and urinalysis ( 14 percent) (table 10).

The rate of visits with screening and diagnostic services increased with age (figure 9). The rate for most of the specific types of tests and screening also increased with age. This is especially true of vision, glaucoma, and cholesterol screening, and use of EKG and x-rays. Some tests do not increase with age, but they are mostly gynecologic and reproductive procedures that one would not expect to increase with age, such as pelvic exams and pap tests. The rate of mammography use among women 65 years of age and over is 29 percent lower than the rate for women 45-64 (19.3 versus 27.1 visits per 100 women), which would not be expected based on recommendations for use.

## Therapeutic and Preventive Services

Only 41 percent of visits by women 15 years of age and over to office-based physicians and hospital outpatient departments received one or more therapeutic or preventive services. Diet (15 percent) and exercise (11 percent) counseling were the two most common types of services offered in this category. Prenatal instructions (5 percent) and breast self-examination (4 percent) were next (table 11).

The rate of visits in which counseling/education was included tended to increase with age. For example, the rate of visits by women 65 years of age and over during which diet education was included was 107 percent higher than that for women 15-44 years of age. The same was true for exercise education ( 95 percent higher for visits among women in the oldest age group) and skin cancer education ( 187 percent higher). However, counseling/education regarding breast self-examination and psychopharmacotherapy did not increase with age (figure 10).

## Medication Therapy

Physician office and hospital staff were instructed to record all new or continued medications ordered, administered, or provided at the visit,


Figure 10. Female visit rates where selected therapeutic and preventive services were provided by age
including prescription and nonprescription preparations, immunizations, and desensitizing agents. As used in NAMCS and NHAMCS, the term "drug" is interchangeable with the
term "medication." Visits with one or more drug mentions are termed "drug visits" in NAMCS and NHAMCS. Up to six medications were captured for each visit.


Figure 11. Female visit rates by number of drug mentions and age

Two out of three ambulatory care visits made by women had medications provided or prescribed. Older women were more likely to have drugs provided or prescribed during ambulatory care visits and were also more likely to have multiple drugs provided or prescribed, compared with younger women (table 12). Compared with women 15-44 years of age, the rate of visits by women 65 years of age and over with zero or one drug mention was about 40 percent higher, with two drug mentions was 70 percent higher, 1.7 times higher with three drug mentions, and 7.5 times as high with four or more drug mentions (figure 11). Women 15-44 years of age averaged 1.1 drug mentions per visit whereas middle-age women averaged 1.6 and senior women averaged 1.9 drug mentions per ambulatory care visit. The percent of visits with four or more drug mentions increased for each age group as well, from 5 percent among visits by younger women to 20 percent for visits by senior women.

When tabulating generic substances prescribed, drug products containing more than one ingredient (combination products) are included in the data for each ingredient. For example,


Figure 12. Percent of drug mentions among female ambulatory care visits for top therapeutic classes


Figure 13. Female prescription rates for selected cardiovascular drugs by age and race
acetaminophen with codeine is included in the count for acetaminophen and the count for codeine. Acetaminophen and estrogen were the two generic substances most frequently used in drugs ordered or provided during ambulatory care visits by women of all ages, occurring in 3.6 percent and
2.2 percent of drug mentions, respectively (table 13).

Age of the patient greatly influenced the types of generic substances ordered or provided. Visits by women 15-44 were more likely to include various vitamins, probably during prenatal care visits, after
acetaminophen. Estrogen was the generic substance most often ordered or provided during ambulatory care visits by women 45-64 years of age, with progesterone third most common. In the oldest age group, substances used to treat hypertension and heart disease were very common along with substances for pain and estrogen.

Drug mentions are shown by therapeutic class in figure 12. This classification is based on the therapeutic categories used in the National Drug Code Directory, 1995 edition (NDC) (8). It should be noted that some drugs have more than one therapeutic application. In these cases, the drug was classified under its primary therapeutic use. Drugs for the cardiovascular-renal system, hormones, and central nervous system were the top classes of drugs used by women 15 years of age and over in 1997-98, when analyzed using only the 20 major classifications. When the detailed classes of drugs are analyzed, nonnarcotic analgesics, antidepressant, and estrogen/progestin were the three most common types of medications mentioned (table 14). The top 10 therapeutic classes accounted for 35 percent of all drug mentions at women's visits.

There are major differences in the prescription pattern by patient age. The rate of cardiovascular-renal system class drug mentions increased with age. For example, compared with visits by women 15-44 years of age, calcium channel blockers are prescribed 4.6 times more often during visits by women 45-64 years of age, and 15.4 times more often during visits by women 65 years and older. However, there is also a large difference in use by race within each age category, with black women much more likely to receive cardiovascular-renal system medications than white women (figure 13). The rates were substantially higher in the older age group but are less discrepant by race. The same pattern holds in visit rates with prescriptions for the diabetes-related medications of blood glucose regulators (excluding insulin) and diuretics (figure 14). For insulin, however, the race discrepancy increases with age. Prescription rates per population of


Figure 14. Female prescription rates for selected diabetes-related drugs by age and race


Figure 15. Female prescription rates for antidepressants and antianxiety agents by age and race
antidepressants and antianxiety medications, the two most common central nervous system class medications, were higher for white women than black women, although again the disparity was highest in the young age group, while the rates were higher at older ages (figure 15). These differences in prescription rates per population parallel differences in diagnoses as noted on table 7 .

## Comparison of Ambulatory Care by Women and Men

In order to compare women's and men's use of ambulatory medical care, visits which had physician diagnoses
related to pregnancy (ICD-9-CM codes 630-677, V22-V24) were excluded. Some women who were pregnant will be in these analyses, but not all visits by pregnant women are related to their pregnancy.

Regardless of race, the overall rate of ambulatory care use among women with nonpregnancy-related diagnoses was 33 percent higher than that for men. However, the difference in nonpregnancy ambulatory care visits by women and men decreased with age. The rate of visits by women 15-44 years of age was about 56 percent greater than the rate for men in this age group. However, among people 65 years of age and over, the rate of visits by women was fairly similar to the rate for
men (figure 16). It is important to note that the people in nursing homes receive care within the nursing home for the types of conditions other people seek ambulatory medical care, and most nursing home residents are women (18).

The difference in the rate of ambulatory care visits by women and men was most pronounced among visits to primary care physicians when place of care was being evaluated (figure 17). The rate of visits by women was 58 percent greater than the rate of visits by men to this type of office-based physician. The rate of visits to outpatient departments was 40 percent higher among women than among men.

Utilization rates categorized by major reason for visit disclose that while the visit rates by women were at least somewhat higher for all types of care, the rate of visits for preventive care and other non-illness reasons are the most disparate by sex (figure 18). The rate of visits by women for non-illness was 100 percent higher than among men, after controlling for age and removing pregnancy-related visits.

Figure 19 displays the age-adjusted rates of drug mentions during ambulatory care visits by women and men for the top eight major classes of drugs among women and men, although the ordering is different by sex. As would be expected, there are more drug mentions per population among women than there are men, since there are more visits per population.

The most striking differences in the rate of drug mentions by sex is medications with hormones/hormonal mechanisms, as expected, and central nervous system mechanisms. The most frequent classes of drugs prescribed for women are displayed in table 15. Estrogen/progestin and contraceptives are the most common for women. Antidepressants are the second most common class of drug mentioned during visits by women but are not commonly prescribed for men. They account for 49 percent of all CNS medication mentions. The age-adjusted rate of antidepressant mentions among women is 95 percent of the rate of all CNS medication mentions in visits by men.


Figure 16. Visit rates of women with nonpregnancy diagnoses and men by age and race


Figure 17. Visit rates by place of care for women with nonpregnancy diagnoses and men

## Discussion

In general, the rate of ambulatory medical care visits by women increased with age. This is true overall and within different ambulatory care settings, providers, and types of care. While women over the age of 65 years represent 18.5 percent of the adult, female U.S. uninstitutionalized civilian population, their medical encounters represent 26.5 percent of all ambulatory encounters by women, and therefore visits by this group of women has a large influence on overall utilization patterns.

Several exceptions to this general trend by age have been noted. First, use of obstetricians/gynecologists goes down dramatically with age, from 100 visits per 100 women per year among the youngest age group, to 21 visits per 100 women among senior women. It is not surprising that use is high in the youngest age group for which obstetric care is a major reason for medical visits. However, since few older women are visiting obstetricians/gynecologists, the recommendations for women of all ages to receive female cancer screening $(19,20)$ means physicians of other specialties need to provide these gynecological services.

The utilization rate for non-illness and preventive care purposes decreases 42 percent between the youngest and middle-age groups, and then levels off. Presumably, some of this is due to the large number of prenatal care visits that women of reproductive age make.

Clinical breast examinations occurred at approximately the same rate for every age group, roughly 50 visits per 100 women per year. The rate of visits during which mammography was ordered or provided also did not significantly vary by age among women 45 years of age and over, although younger women had lower use.

Within physician offices, utilization of various medical and surgical specialists increased much more dramatically with patient age than the utilization of primary care specialists. Women are seeking more specialized care for their conditions. Such specialties would include


Figure 18. Visit rates by major reason for visit for women with nonpregnancy diagnoses and men


Figure 19. Prescription rates by major therapeutic classes for women with nonpregnancy diagnoses and men
ophthalmologic, cardiovascular, and rheumatoid specialties for treating the increased incidence in older women of eye problems such as cataracts and glaucoma, circulation problems such as hypertension and heart disease, and muscular/joint problems such as arthritis and osteoporosis.

Black women are being seen for several chronic conditions at far greater rates than white women. These conditions include arthropathies, hypertension, and diabetes. These are three of the five leading conditions that are associated with disability among the elderly of all races (21). The NAMCS/NHAMCS data indicated that the rate of visits for black women compared with white women were 85 percent higher for hypertension, 50 percent higher for arthritis, and 138 percent higher for diabetes. The prevalence of these conditions, as measured in the National Health Interview Survey (NHIS) data, adjusting to the same population standard for the same 2-year period, was somewhat less divergent; black women were 59 percent more likely to have been diagnosed with hypertension, 103 percent more likely to have been diagnosed with diabetes, and no more likely to report joint pain in the past year than white women (22). This may indicate that these conditions are more advanced or debilitating in black women. While Medicare covers many medical services for older adults, previous research has demonstrated that financial, personal, and physical barriers create disparities in health status and health care usage (23). Investigations of the reason why the discrepancy in the rate of visits for these and probably other conditions are higher than the discrepancy in prevalence are needed.

Counseling and screening of several types are recommended by several organizations as ways to prevent disease. For example, many groups, including the U.S. Preventive Services Task Force (USPSTF) recommend that clinicians routinely counsel patients to promote a healthy diet and include regular exercise (20). The USPSTF also recommends that clinicians counsel smokers every time they are seen to quit smoking (20). The NAMCS/NHAMCS data presented indicate that diet
counseling is done fairly routinely, while exercise counseling is done less often, and smoking counseling, at a rate of 12 visits per 100 women, was done far less than once a year among smokers (the current proportion of women who smoke being 22 percent (24)). The rate of visits including mammography among women 45 and over averaged between $20-27$ visits per 100 women, while annual mammography is recommended for women 50-69 years of age (20). Pap tests are recommended every 3 years, however, which is roughly what the NAMCS/NHAMCS data show.

Data obtained from self-report indicate that 56 percent of women 45-64 years of age and 48 percent of women 65 years and over have had a mammogram in the previous year (25). This rate of mammography use from encounter records is lower than would be expected, and includes repeat mammograms in some cases. Part of the difference can be accounted for by use of mammography in locations not included in NAMCS/NHAMCS, such as mobile health units and work-site health units. Self-report of mammography use may also not reflect actual use $(26,27)$.

Mental health issues are cause for a substantial proportion of ambulatory care visits by women, as demonstrated by medication use. The rate of visits that included mental health counseling was relatively similar at all ages, unlike the rise in rates of most other therapeutic and preventive services, and was included in only 2.8 percent of all visits by women. The rate of visits to psychiatrists was 10.6 per 100 younger women, 16.2 per 100 middle-aged women, and then dropped to 8.0 per 100 senior women. Medications for mental health were frequently mentioned. Antidepressants were the second most common specific class of drug mentioned during visits, even though antidepressants may be underutilized for people with depression in the United States in general (28, 29). Furthermore, the mentions of CNS drugs increased with age. Among women 15-44 years of age, the rate of visits with any CNS medication prescription was 43.3 per 100 women, but it was 96 percent higher among women 45-64 years of
age and 120 percent higher among women 65 years of age and older. There was a large difference noted by race, with the rate of visits with mental health counseling by white women being 41 percent higher than the rate of visits by black women. A similar difference by race in the rate of visits with CNS prescriptions was found ( 45 percent higher among white women than black women, controlling for age). However, the NHIS data indicate that black women are 19 percent more likely to report that mental health issues interfered with their life a lot in the past 30 days (22). Mental health issues may require many ambulatory care visits for the same condition, and the NAMCS/NHAMCS data cannot be used to estimate the prevalence of mental health conditions. Nationally representative data on mental health issues are rare (30). This data source, while not ideal, is at least one measure of the extent of these issues.

Use of ambulatory care by women was higher than for men, even after removing visits related to pregnancy. There are many possible explanations for this. Women's self-reported health is worse than men's (31), on average, which may either reflect more illness or differences in the way health is viewed or discussed by women. Older women are more likely to have disabling conditions than older men (21). There are more women in the oldest age categories (21), and health care is used in the oldest ages at the highest rates. Women generally are responsible for their family's health (32) and so may think about health care needs more than men. They are more likely to have a usual source of care (24), which is a strong predictor of health care utilization. They also tend to use medical care for screening and health education more often than men (33). Women have been said to also be more likely to report and act on illness, although research has not always born this out $(34,35)$.

Because this report looks at visits, rather than people, conclusions should be made with caution. Multiple ambulatory care visits for the same condition make it impossible to use these data to measure prevalence of
conditions or medication use. Furthermore, the average number of visits vary by condition type. As an example, a single pregnancy is likely to cause far more visits than the flu. Data from the NHIS indicate that 12 percent of women did not make any ambulatory medical visits during the time period studied in this report. However, among women under age 65 , black women were more likely than white women to have had no nonemergency ambulatory care (22). Additional problems arise when analyzing medication encounters since new or continuing medications are collected in this survey, meaning that medications that are used chronically will be counted on multiple visits and may be unrelated to the purpose of the visit. Thus, medications for chronic conditions are likely to be counted many times for the same person while medications for acute conditions will be counted during fewer visits.

In summary, women make approximately one-half billion visits annually for ambulatory medical services. Utilization of ambulatory care services varied by patient age and in some cases by race as well. Factors that might explain the observed variation in utilization include variation in incidence of conditions and access to care, neither of which can be addressed using NAMCS and NHAMCS data, and so will require additional research. Given the higher proportion of ambulatory care visits made by women, the information presented should be useful not only to inform women's health policy, but health care policy as a whole.

## Additional Information

Ambulatory care visit and drug data from NAMCS and NHAMCS are available in a variety of formats including public-use data tapes, CD-ROMs, and downloadable data files accessed through the NCHS homepage on the Internet. For additional information concerning this report, future or previous reports, or NAMCS and NHAMCS data, inquiries may be directed to the Ambulatory Care Statistics Branch at (301) 458-4600, or visit the Web site at www.cdc.gov/nchs/ about/major/ahcd/ahcd1.htm.

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| Characteristic | All specialties | Primary | Surgical | Nonsurgical | Outpatient department | Emergency department | All specialties | Primary | Surgical | Nonsurgical | Outpatient department | Emergency department |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of visits in thousands |  |  |  |  |  | Standard error |  |  |  |  |  |
| All visits | 499,785 | 257,572 | 81,870 | 80,951 | 37,753 | 41,640 | 14,828 | 10,665 | 4,288 | 4,090 | 2,926 | 1,508 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 230,628 | 132,731 | 24,028 | 30,294 | 19,466 | 24,111 | 7,896 | 6,297 | 1,558 | 2,167 | 1,474 | 924 |
| 45-64 years | 136,487 | 65,489 | 25,400 | 26,400 | 10,784 | 8,414 | 4,386 | 2,998 | 1,404 | 1,460 | 971 | 345 |
| 65 years and over | 132,670 | 59,352 | 32,442 | 24,257 | 7,503 | 9,115 | 5,076 | 3,506 | 2,037 | 1,524 | 839 | 397 |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 419,240 | 216,909 | 73,523 | 69,759 | 27,256 | 31,792 | 14,332 | 10,033 | 4,103 | 3,625 | 2,439 | 1,419 |
| 15-44 years | 187,478 | 109,819 | 21,119 | 25,221 | 13,732 | 17,587 | 7,462 | 5,812 | 1,462 | 1,884 | 1,211 | 854 |
| 45-64 years | 114,875 | 55,466 | 22,588 | 22,733 | 7,680 | 6,409 | 4,187 | 2,851 | 1,324 | 1,291 | 763 | 312 |
| 65 years and over | 116,887 | 51,625 | 29,817 | 21,805 | 5,844 | 7,796 | 4,883 | 3,307 | 1,971 | 1,421 | 747 | 383 |
| Black | 62,489 | 30,393 | 5,916 | 7,917 | 9,342 | 8,920 | 4,001 | 3,422 | 553 | 1,079 | 850 | 434 |
| 15-44 years | 33,521 | 17,091 | 2,033 | 3,275 | 5,131 | 5,991 | 2,228 | 1,919 | 268 | 541 | 467 | 292 |
| 45-64 years | 16,533 | 7,177 | 2,053 | 2,766 | 2,760 | 1,776 | 1,096 | 853 | 232 | 433 | 361 | 115 |
| 65 years and over | 12,435 | 6,124 | 1,830 | 1,876 | 1,452 | 1,153 | 1,369 | 1,226 | 236 | 350 | 167 | 92 |
| Percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |
| All visits | 100.0 | 51.5 | 16.4 | 16.2 | 7.6 | 8.3 | $\ldots$ | 1.1 | 0.7 | 0.8 | 0.5 | 0.3 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 100.0 | 57.6 | 10.4 | 13.1 | 8.4 | 10.5 | $\ldots$ | 1.4 | 0.6 | 0.9 | 0.6 | 0.5 |
| 45-64 years | 100.0 | 48.0 | 18.6 | 19.3 | 7.9 | 6.2 | . . . | 1.3 | 0.9 | 0.9 | 0.7 | 0.3 |
| 65 years and over | 100.0 | 44.7 | 24.5 | 18.3 | 5.7 | 6.9 | $\ldots$ | 1.5 | 1.2 | 1.1 | 0.6 | 0.4 |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 100.0 | 51.7 | 17.5 | 16.6 | 6.5 | 7.6 | $\ldots$ | 1.2 | 0.8 | 0.8 | 0.6 | 0.4 |
| 15-44 years | 100.0 | 58.6 | 11.3 | 13.5 | 7.3 | 9.4 | ... | 1.5 | 0.7 | 0.9 | 0.6 | 0.5 |
| 45-64 years | 100.0 | 48.3 | 19.7 | 19.8 | 6.7 | 5.6 | . . . | 1.4 | 0.9 | 1.0 | 0.6 | 0.3 |
| 65 years and over | 100.0 | 44.2 | 25.5 | 18.7 | 5.0 | 6.7 | $\ldots$ | 1.7 | 1.3 | 1.1 | 0.6 | 0.4 |
| Black | 100.0 | 48.6 | 9.5 | 12.7 | 15.0 | 14.3 | ... | 2.9 | 0.9 | 1.7 | 1.4 | 0.9 |
| 15-44 years | 100.0 | 51.0 | 6.1 | 9.8 | 15.3 | 17.9 | $\ldots$ | 2.8 | 0.9 | 1.6 | 1.5 | 1.1 |
| 45-64 years | 100.0 | 43.4 | 12.4 | 16.7 | 16.7 | 10.7 | $\ldots$ | 3.5 | 1.4 | 2.4 | 2.1 | 0.7 |
| 65 years and over | 100.0 | 49.3 | 14.7 | 15.1 | 11.7 | 9.3 | $\ldots$ | 5.1 | 1.9 | 3.0 | 1.7 | 1.0 |
| Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| All visits ${ }^{2}$ | 459.9 | 237.2 | 75.0 | 74.6 | 34.9 | 38.2 | 13.6 | 9.8 | 3.9 | 3.8 | 2.7 | 1.4 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 380.1 | 218.8 | 39.6 | 49.9 | 32.1 | 39.7 | 13.0 | 10.4 | 2.6 | 3.6 | 2.4 | 1.5 |
| 45-64 years | 473.5 | 227.2 | 88.1 | 91.6 | 37.4 | 29.2 | 15.2 | 10.4 | 4.9 | 5.0 | 3.4 | 1.9 |
| 65 years and over | 711.8 | 318.4 | 174.1 | 130.1 | 40.3 | 48.9 | 27.2 | 18.8 | 10.9 | 8.1 | 4.5 | 2.1 |

Table 1. Ambulatory care visits by physician specialtiy and patient's age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Characteristic | All specialties | Primary | Surgical | Nonsurgical | Outpatient department | Emergency department | All specialties | Primary | Surgical | Nonsurgical | Outpatient department | Emergency department |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age and race | Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  | Standard error |  |  |  |  |  |
| White ${ }^{2}$ | 461.9 | 240.4 | 79.5 | 76.5 | 30.3 | 35.2 | 15.8 | 11.1 | 4.4 | 4.0 | 2.7 | 1.6 |
| 15-44 years | 385.6 | 225.9 | 43.4 | 51.9 | 28.2 | 36.2 | 15.3 | 11.9 | 3.0 | 3.9 | 2.5 | 1.8 |
| 45-64 years | 472.0 | 227.9 | 92.8 | 93.4 | 31.6 | 26.3 | 17.2 | 11.7 | 5.4 | 5.3 | 3.1 | 1.3 |
| 65 years and over | 707.6 | 312.5 | 180.5 | 132.0 | 35.4 | 47.2 | 29.6 | 20.0 | 11.9 | 8.6 | 4.5 | 2.3 |
| Black ${ }^{2}$ | 478.5 | 231.0 | 48.8 | 63.3 | 70.8 | 64.7 | 31.4 | 26.9 | 4.6 | 8.6 | 6.5 | 3.2 |
| 15-44 years | 380.7 | 194.1 | 23.1 | 37.2 | 58.3 | 68.0 | 25.3 | 21.8 | 3.0 | 6.1 | 5.3 | 3.3 |
| 45-64 years | 507.2 | 220.2 | 63.0 | 84.9 | 84.7 | 54.5 | 33.6 | 26.2 | 7.1 | 13.3 | 11.1 | 3.5 |
| 65 years and over | 765.9 | 377.2 | 112.7 | 115.5 | 89.4 | 71.0 | 84.3 | 75.5 | 14.6 | 21.5 | 10.3 | 5.7 |

[^2]Page $20 \square$ Series 13, No. 149
Table 2. Ambulatory care visits by detailed specialty of care and ambulatory care setting for women 15 years of age and over: United States, average annual 1997-98

| Physician specialty | Number in thousands | Standard error | Percent distribution | Standard error | Percent distribution of visits to care type | Standard error | $\begin{aligned} & \text { Rate per } \\ & 100 \\ & \text { women }^{1,2} \end{aligned}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All visits | 499,785 | 14,828 | 100.0 | $\ldots$ | $\ldots$ | $\ldots$ | 459.9 | 13.6 |
| Office-based visits | 420,393 | 13,039 | 84.1 | 0.7 | 100.0 | ... | 386.8 | 12.0 |
| General and family practice | 103,561 | 6,515 | 20.7 | 1.2 | 24.6 | 1.3 | 95.5 | 6.0 |
| Internal medicine | 75,604 | 4,631 | 15.1 | 0.8 | 18.0 | 1.0 | 69.3 | 4.2 |
| Pediatrics | 3,476 | 469 | 0.7 | 0.1 | 0.8 | 0.1 | 3.2 | 0.4 |
| General surgery | 12,381 | 1,275 | 2.5 | 0.3 | 3.0 | 0.3 | 11.4 | 1.2 |
| Obstetrics and gynecology | 76,366 | 5,149 | 15.3 | 0.9 | 18.2 | 1.0 | 70.6 | 4.8 |
| Orthopedic surgery | 18,311 | 1,824 | 3.7 | 0.4 | 4.4 | 0.4 | 16.8 | 1.7 |
| Cardiovascular diseases | 8,756 | 908 | 1.8 | 0.2 | 2.1 | 0.2 | 7.9 | 0.8 |
| Dermatology | 16,725 | 1,456 | 3.4 | 0.3 | 4.0 | 0.3 | 15.4 | 1.3 |
| Urology | 3,795 | 424 | 0.8 | 0.1 | 0.9 | 0.1 | 3.5 | 0.4 |
| Psychiatry | 12,590 | 1,266 | 2.5 | 0.2 | 3.0 | 0.3 | 11.8 | 1.2 |
| Neurology | 4,535 | 471 | 0.9 | 0.1 | 1.1 | 0.1 | 4.2 | 0.4 |
| Ophthalmology | 27,164 | 2,279 | 5.4 | 0.4 | 6.5 | 0.5 | 24.6 | 2.1 |
| Otolaryngology | 9,120 | 877 | 1.8 | 0.2 | 2.2 | 0.2 | 8.4 | 0.8 |
| All other | 48,012 | 3,624 | 9.6 | 0.7 | 11.4 | 0.8 | 44.3 | 3.3 |
| Hospital outpatient visits | 37,753 | 2,890 | 7.6 | 0.5 | 100.0 |  | 34.9 | 2.7 |
| General medicine | 24,379 | 2,243 | 4.9 | 0.4 | 64.6 | 2.4 | 22.6 | 2.1 |
| Surgery | 3,821 | 534 | 0.8 | 0.1 | 10.1 | 1.2 | 3.5 | 0.5 |
| Pediatrics | 814 | 139 | 0.2 | 0.0 | 2.2 | 0.4 | 0.7 | 0.1 |
| Obstetrics and gynecology | 6,000 | 705 | 1.2 | 0.1 | 15.9 | 1.6 | 5.5 | 0.6 |
| All other | 2,739 | 459 | 0.6 | 0.1 | 7.3 | 1.2 | 2.5 | 0.4 |
| Emergency department visits | 41,640 | 1,272 | 8.3 | 0.3 | 100.0 | . . | 38.2 | 1.2 |
| Emergent | 8,832 | 533 | 1.8 | 0.1 | 21.2 | 1.2 | 8.1 | 0.5 |
| Urgent | 13,419 | 681 | 2.7 | 0.2 | 32.2 | 1.2 | 12.3 | 0.6 |
| Semiurgent | 5,784 | 399 | 1.2 | 0.1 | 13.9 | 0.8 | 5.3 | 0.4 |
| Nonurgent | 3,585 | 325 | 0.7 | 0.1 | 8.6 | 0.7 | 3.3 | 0.3 |
| No triage/unknown | 10,019 | 819 | 2.0 | 0.2 | 24.1 | 1.9 | 9.2 | 0.8 |

[^3]Table 3. Ambulatory care visits to office-based physicians and hospital outpatient departments by type of provider seen, according to age and race for women 15 years of age and over: United States, annual average 1997-98

| Type of provider | All visits | Age |  |  | Race |  |  | Age |  |  | Race |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-44 <br> years | 45-64 <br> years | 65 years and over | White | Black | All visits | 15-44 years | 45-64 years | 65 years and over | White | Black |
|  | Number of visits in thousands |  |  |  |  |  | Standard error |  |  |  |  |  |
| All providers | 458,146 | 206,518 | 128,074 | 123,554 | 387,447 | 53,568 | 14,469 | 7,707 | 4,301 | 5,003 | 13,924 | 3,917 |
| Physician | 434,211 | 193,898 | 121,880 | 118,433 | 367,689 | 49,959 | 13,596 | 7,141 | 4,076 | 4,814 | 13,097 | 3,683 |
| Nurse practitioner | 6,505 | 4,212 | 1,435 | 858 | 5,089 | 1,309 | 1,228 | 909 | 321 | 209 | 1,015 | 366 |
| Nurse midwife | *1,076 | *848 | * | * | *880 | 154 | 340 | 289 |  | . . . | 313 | 38 |
| Registered nurse | 75,819 | 35,058 | 22,555 | 18,206 | 62,849 | 10,604 | 5,553 | 2,935 | 1,963 | 1,673 | 4,899 | 1,398 |
| Licensed practical nurse | 52,385 | 25,843 | 13,279 | 13,263 | 45,050 | 5,988 | 5,865 | 3,454 | 1,631 | 1,608 | 5,576 | 1,101 |
| Medical/nursing assistant | 105,035 | 47,530 | 29,153 | 28,352 | 89,296 | 12,164 | 6,824 | 3,880 | 2,160 | 2,011 | 6,159 | 1,827 |
| Physician assistant | 10,177 | 3,819 | 2,792 | 3,565 | 8,457 | *1,531 | 1,507 | 553 | 543 | 632 | 1,306 | 550 |
| No care provided | 3,267 | 1,423 | 761 | 1,083 | 2,736 | 454 | 521 | 261 | 136 | 240 | 499 | 128 |
| Other | 28,007 | 11,809 | 8,069 | 8,129 | 23,230 | 3,434 | 3,092 | 1,593 | 1,047 | 1,187 | 2,720 | 488 |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |  |  |
| All providers | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| Physician | 94.8 | 93.9 | 95.2 | 95.9 | 94.9 | 93.3 | 0.4 | 0.5 | 0.4 | 0.6 | 0.4 | 0.9 |
| Nurse practitioner | 1.4 | 2.0 | 1.1 | 0.7 | 1.3 | 2.4 | 0.3 | 0.4 | 0.2 | 0.2 | 0.3 | 0.7 |
| Nurse midwife | *0.2 | *0.4 | * | * | *0.2 | 0.3 | 0.1 | 0.1 | . . | ... | 0.1 | 0.1 |
| Registered nurse | 16.6 | 17.0 | 17.6 | 14.7 | 16.2 | 19.8 | 1.2 | 1.3 | 1.4 | 1.3 | 1.2 | 2.0 |
| Licensed practical nurse | 11.4 | 12.5 | 10.4 | 10.7 | 11.6 | 11.2 | 1.2 | 1.5 | 1.2 | 1.2 | 1.3 | 1.7 |
| Medical/nursing assistant | 22.9 | 23.0 | 22.8 | 23.0 | 23.1 | 22.7 | 1.4 | 1.8 | 1.5 | 1.4 | 1.4 | 2.5 |
| Physician assistant | 2.2 | 1.9 | 2.2 | 2.9 | 2.2 | *2.9 | 0.3 | 0.3 | 0.4 | 0.5 | 0.3 | 1.0 |
| No care provided | 0.7 | 0.7 | 0.6 | 0.9 | 0.7 | 0.9 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 |
| Other . . | 6.1 | 5.7 | 6.3 | 6.6 | 6.0 | 6.4 | 0.7 | 0.8 | 0.8 | 0.9 | 0.7 | 1.0 |
|  | Number of visits per 100 women ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| All providers | ${ }^{2} 421.7$ | 340.4 | 444.3 | 662.9 | ${ }^{2} 426.7$ | ${ }^{2} 413.8$ | 13.3 | 12.7 | 14.9 | 26.8 | 15.3 | 30.1 |
| Physician | ${ }^{2} 399.6$ | 319.6 | 422.8 | 635.4 | ${ }^{2} 404.7$ | ${ }^{2} 387.3$ | 12.5 | 11.8 | 14.1 | 25.8 | 14.4 | 29.1 |
| Nurse practitioner | ${ }^{2} 6.0$ | 6.9 | 5.0 | 4.6 | ${ }^{2} 5.7$ | ${ }^{2} 9.0$ | 1.1 | 1.5 | 1.1 | 1.1 | 1.1 | 2.4 |
| Nurse midwife | *21.0 | *1.4 | * | * | *21.0 | ${ }^{2} 1.0$ | 0.3 | 0.5 | ... | ... | 0.4 | 0.2 |
| Registered nurse | ${ }^{2} 70.0$ | 57.8 | 78.2 | 97.7 | ${ }^{2} 69.6$ | ${ }^{2} 82.1$ | 5.1 | 4.8 | 6.8 | 9.0 | 5.4 | 11.2 |
| Licensed practical nurse | ${ }^{2} 48.2$ | 42.6 | 46.1 | 71.2 | ${ }^{2} 49.8$ | ${ }^{2} 47.6$ | 5.4 | 5.7 | 5.7 | 8.6 | 6.2 | 9.4 |
| Medical/nursing assistant | ${ }^{2} 96.7$ | 78.3 | 101.1 | 152.1 | ${ }^{2} 98.3$ | ${ }^{2} 93.2$ | 6.3 | 6.4 | 7.5 | 10.8 | 6.8 | 14.2 |
| Physician assistant | ${ }^{2} 9.3$ | 6.3 | 9.7 | 19.1 | ${ }^{2} 9.2$ | *211.9 | 1.4 | 0.9 | 1.9 | 3.4 | 1.4 | 4.4 |
| No care provided | ${ }^{2} 3.0$ | 2.3 | 2.6 | 5.8 | ${ }^{2} 3.0$ | ${ }^{2} 3.5$ | 0.5 | 0.4 | 0.5 | 1.3 | 0.5 | 1.0 |
| Other/missing | ${ }^{2} 25.8$ | 19.5 | 28.0 | 43.6 | ${ }^{2} 25.5$ | ${ }^{2} 26.2$ | 2.8 | 2.6 | 3.6 | 6.4 | 3.0 | 3.7 |

* Figure does not meet standard of reliability or precision.
.. Category not applicable.
${ }^{1}$ Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{2}$ Age-adjusted.

| Expected source of payment | All visits | Age |  |  | Race |  | All visits | Age |  |  | Race |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-44 years | $\begin{aligned} & 45-64 \\ & \text { years } \end{aligned}$ | 65 years and over | White | Black |  | $\begin{aligned} & 15-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-64 \\ & \text { years } \end{aligned}$ | 65 years and over | White | Black |
|  | Number of visits in thousands |  |  |  |  |  | Standard error |  |  |  |  |  |
| All visits | 499,785 | 230,628 | 136,487 | 132,670 | 419,240 | 62,489 | 14,828 | 7,896 | 4,386 | 5,076 | 14,332 | 4,001 |
| Private insurance | 249,661 | 142,073 | 87,218 | 20,370 | 215,302 | 24,876 | 8,525 | 5,697 | 3,012 | 1,311 | 8,451 | 1,753 |
| Medicare | 111,240 | 4,769 | 9,973 | 96,498 | 98,374 | 10,369 | 4,391 | 395 | 700 | 4,024 | 4,149 | 1,126 |
| Medicaid | 47,160 | 30,643 | 10,655 | 5,862 | 30,409 | 14,052 | 2,535 | 1,772 | 714 | 676 | 1,953 | 1,374 |
| Other/unspecified insurance type | 21,401 | 12,287 | 6,321 | 2,792 | 17,213 | 3,186 | 2,316 | 1,391 | 782 | 618 | 1,944 | 708 |
| Self-pay . . . . . . . . . . . . . | 40,784 | 25,769 | 12,512 | 2,503 | 34,277 | 5,351 | 2,276 | 1,506 | 836 | 455 | 2,087 | 547 |
| No charge | 6,738 | 3,285 | 2,074 | 1,379 | 5,243 | *1,349 | 1,294 | 821 | 513 | 253 | 981 | 552 |
| Other | 9,663 | 5,259 | 3,880 | 525 | 7,560 | 1,350 | 1,233 | 763 | 559 | 105 | 1,120 | 237 |
| Unknown/blank | 13,139 | 6,545 | 3,855 | 2,740 | 10,861 | 1,956 | 1,040 | 594 | 339 | 377 | 913 | 231 |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |  |  |
| All visits | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |  | ... |  | $\ldots$ |  | ... |
| Private insurance | 50.0 | 61.6 | 63.9 | 15.4 | 51.4 | 39.8 | 0.8 | 1.1 | 1.0 | 0.9 | 0.9 | 1.8 |
| Medicare | 22.3 | 2.1 | 7.3 | 72.7 | 23.5 | 16.6 | 0.6 | 0.2 | 0.4 | 1.0 | 0.5 | 1.3 |
| Medicaid . | 9.4 | 13.3 | 7.8 | 4.4 | 7.3 | 22.5 | 0.5 | 0.7 | 0.5 | 0.5 | 0.4 | 1.4 |
| Other/unspecified insurance type | 4.3 | 5.3 | 4.6 | 2.1 | 4.1 | 5.1 | 0.4 | 0.6 | 0.5 | 0.5 | 0.4 | 1.1 |
| Self-pay | 8.2 | 11.2 | 9.2 | 1.9 | 8.2 | 8.6 | 0.4 | 0.5 | 0.5 | 0.3 | 0.4 | 0.7 |
| No charge | 1.4 | 1.4 | 1.5 | 1.0 | 1.3 | *2.2 | 0.3 | 0.3 | 0.4 | 0.2 | 0.2 | 0.9 |
|  | 1.9 | 2.3 | 2.8 | 0.4 | 1.8 | 2.2 | 0.2 | 0.3 | 0.4 | 0.1 | 0.3 | 0.4 |
| Unknown/blank | 2.6 | 2.8 | 2.8 | 2.1 | 2.6 | 3.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.4 |
|  | Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| All visits | ${ }^{2} 459.9$ | 380.1 | 473.5 | 711.8 | ${ }^{2} 461.9$ | ${ }^{2} 478.5$ | 13.6 | 13.0 | 15.2 | 27.2 | 15.8 | 31.4 |
| Private insurance | ${ }^{2} 233.4$ | 234.2 | 302.6 | 109.3 | ${ }^{2} 244.6$ | ${ }^{2} 182.0$ | 7.9 | 9.4 | 10.4 | 7.0 | 9.6 | 12.8 |
| Medicare | ${ }^{2} 97.5$ | 7.9 | 34.6 | 517.8 | ${ }^{2} 98.0$ | ${ }^{2} 97.6$ | 3.8 | 0.7 | 2.4 | 21.6 | 4.1 | 10.7 |
| Medicaid | ${ }^{2} 43.6$ | 50.5 | 37.0 | 31.5 | ${ }^{2} 34.3$ | ${ }^{2} 101.5$ | 2.3 | 2.9 | 2.5 | 3.6 | 2.2 | 10.4 |
| Other/unspecified insurance type | ${ }^{2} 19.9$ | 20.3 | 21.9 | 15.0 | ${ }^{2} 19.4$ | ${ }^{2} 24.0$ | 2.1 | 2.3 | 2.7 | 3.3 | 2.2 | 5.4 |
| Self-pay . . . . . . . . . . . . . | ${ }^{2} 38.1$ | 42.5 | 43.4 | 13.4 | ${ }^{2} 39.0$ | ${ }^{2} 37.9$ | 2.1 | 2.5 | 2.9 | 2.4 | 2.4 | 3.8 |
| No charge . | ${ }^{2} 6.2$ | 5.4 | 7.2 | 7.4 | ${ }^{2} 5.8$ | ${ }^{2 *} 10.3$ | 1.2 | 1.4 | 1.8 | 1.4 | 1.1 | 4.2 |
| Other/missing | ${ }^{2} 9.1$ | 8.7 | 13.5 | 2.8 | ${ }^{2} 8.6$ | ${ }^{2} 10.1$ | 1.2 | 1.3 | 1.9 | 0.6 | 1.3 | 1.8 |
| Unknown/blank | ${ }^{2} 12.1$ | 10.8 | 13.4 | 14.7 | ${ }^{2} 12.1$ | ${ }^{2} 15.2$ | 1.0 | 1.0 | 1.2 | 2.0 | 1.0 | 1.9 |

* Figure does not meet standard of reliability or precision.
*. . Categure does not meet stand
${ }^{1}$ Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{2}$ Age-adjusted.

Table 5. Ambulatory care visits to office-based physicians and hospital outpatient departments by major reason for visit, age, and race for women 15 years of age and over: United States, average annual 1997-98

| Characteristic | $\begin{aligned} & \text { All } \\ & \text { visits } \end{aligned}$ | Acute condition | Chronic condition | Pre/post surgery | Nonillness | Unknown | All visits | Acute condition | Chronic condition | Pre/post surgery | Nonillness | Unknown |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of visits in thousands |  |  |  |  |  | Standard error |  |  |  |  |  |
| All visits | 458,146 | 141,270 | 176,854 | 36,967 | 94,258 | 8,797 | 14,469 | 5,485 | 6,062 | 1,970 | 4,975 | 905 |
| Age: |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 206,518 | 68,526 | 56,411 | 13,319 | 64,620 | 3,643 | 7,707 | 2,893 | 2,397 | 950 | 4,000 | 416 |
| 45-64 years | 128,074 | 39,802 | 57,610 | 10,644 | 17,694 | 2,323 | 4,301 | 1,761 | 2,201 | 685 | 1,195 | 310 |
| 65 years and over | 123,554 | 32,942 | 62,833 | 13,004 | 11,945 | 2,831 | 5,003 | 1,816 | 2,748 | 809 | 847 | 402 |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 387,447 | 120,453 | 148,194 | 32,378 | 78,748 | 7,675 | 13,924 | 5,149 | 5,664 | 1,871 | 4,674 | 854 |
| 15-44 years | 169,891 | 56,760 | 45,905 | 11,076 | 52,962 | 3,188 | 7,243 | 2,711 | 2,172 | 860 | 3,670 | 395 |
| 45-64 years | 108,466 | 34,244 | 47,501 | 9,408 | 15,266 | 2,046 | 4,102 | 1,669 | 1,998 | 662 | 1,141 | 281 |
| 65 years and over | 109,091 | 29,448 | 54,789 | 11,893 | 10,520 | 2,440 | 4,798 | 1,691 | 2,626 | 788 | 847 | 363 |
| Black | 53,568 | 15,269 | 22,062 | 3,565 | 11,862 | 811 | 3,817 | 1,468 | 1,944 | 384 | 1,027 | 145 |
| 15-44 years | 27,530 | 8,699 | 7,844 | 1,722 | 8,960 | 305 | 2,108 | 938 | 705 | 244 | 942 | 81 |
| 45-64 years | 14,756 | 3,942 | 7,913 | 877 | 1,788 | *235 | 1,047 | 373 | 748 | 156 | 219 | 77 |
| 65 years and over | 11,282 | 2,629 | 6,304 | 965 | 1,113 | *271 | 1,340 | 467 | 821 | 165 | 269 | 87 |
| Percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |
| All visits | 100.0 | 30.8 | 38.6 | 8.1 | 20.6 | 1.9 | $\ldots$ | 0.7 | 0.8 | 0.3 | 0.8 | 0.2 |
| Age: |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 100.0 | 33.2 | 27.3 | 6.5 | 31.3 | 1.8 | ... | 1.0 | 0.9 | 0.4 | 1.2 | 0.2 |
| 45-64 years | 100.0 | 31.1 | 45.0 | 8.3 | 13.8 | 1.8 | $\ldots$ | 0.8 | 1.0 | 0.5 | 0.8 | 0.2 |
| 65 years and over | 100.0 | 26.7 | 50.9 | 10.5 | 9.7 | 2.3 | $\ldots$ | 0.9 | 0.9 | 0.5 | 0.6 | 0.3 |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 100.0 | 31.1 | 38.3 | 8.4 | 20.3 | 2.0 | $\ldots$ | 0.7 | 0.8 | 0.4 | 0.8 | 0.2 |
| 15-44 years | 100.0 | 33.4 | 27.0 | 6.5 | 31.2 | 1.9 | . . . | 1.1 | 0.9 | 0.4 | 1.3 | 0.2 |
| 45-64 years | 100.0 | 31.6 | 43.8 | 8.7 | 14.1 | 1.9 | $\ldots$ | 0.9 | 1.1 | 0.5 | 0.9 | 0.3 |
| 65 years and over | 100.0 | 27.0 | 50.2 | 10.9 | 9.6 | 2.2 | $\ldots$ | 0.9 | 1.0 | 0.6 | 0.6 | 0.3 |
| Black | 100.0 | 28.5 | 41.2 | 6.7 | 22.1 | 1.5 | $\ldots$ | 1.5 | 1.6 | 0.7 | 1.6 | 0.3 |
| 15-44 years | 100.0 | 31.6 | 28.5 | 6.3 | 32.6 | 1.1 | ... | 2.2 | 1.6 | 0.8 | 2.3 | 0.3 |
| 45-64 years | 100.0 | 26.7 | 53.6 | 6.0 | 12.1 | *1.6 | ... | 2.0 | 2.5 | 1.0 | 1.3 | 0.5 |
| 65 years and over | 100.0 | 23.3 | 55.9 | 8.6 | 9.9 | *2.4 | $\cdots$ | 2.4 | 2.4 | 1.5 | 2.1 | 0.8 |
| Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| All visits ${ }^{2}$ | 421.7 | 130.3 | 162.5 | 33.9 | 86.9 | 8.1 | 13.3 | 5.0 | 5.6 | 1.8 | 4.6 | 0.8 |
| Age: |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 340.4 | 112.9 | 93.0 | 22.0 | 106.5 | 6.0 | 12.7 | 4.8 | 3.9 | 1.6 | 6.6 | 0.7 |
| 45-64 years | 444.3 | 138.1 | 199.8 | 36.9 | 61.4 | 8.1 | 14.9 | 6.1 | 7.6 | 2.4 | 4.1 | 1.1 |
| 65 years and over | 662.9 | 176.7 | 337.1 | 69.8 | 64.1 | 15.2 | 26.8 | 9.7 | 14.7 | 4.3 | 4.5 | 2.2 |

Table 5. Ambulatory care visits to office-based physicians and hospital outpatient departments by major reason for visit, age, and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Characteristic | All visits | Acute condition | Chronic condition | Pre/post surgery | Nonillness | Unknown | All visits | Acute condition | Chronic condition | Pre/post surgery | Nonillness | Unknown |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  | Standard error |  |  |  |  |  |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White ${ }^{2}$ | 426.7 | 133.4 | 161.1 | 35.2 | 88.6 | 8.4 | 15.3 | 5.7 | 6.1 | 2.1 | 5.3 | 0.9 |
| 15-44 years | 349.4 | 116.7 | 94.4 | 22.8 | 108.9 | 6.6 | 14.9 | 5.6 | 4.5 | 1.8 | 7.5 | 0.8 |
| 45-64 years | 445.7 | 140.7 | 195.2 | 38.7 | 62.7 | 8.4 | 16.8 | 6.8 | 8.2 | 2.7 | 4.7 | 1.2 |
| 65 years and over | 660.4 | 178.3 | 331.7 | 72.0 | 63.7 | 14.8 | 29.0 | 10.2 | 15.9 | 4.8 | 5.1 | 2.2 |
| Black ${ }^{2}$. . . | 413.8 | 115.2 | 180.7 | 28.1 | 83.2 | 6.7 | 30.1 | 11.2 | 16.3 | 3.0 | 6.9 | 1.2 |
| 15-44 years | 312.7 | 98.8 | 89.1 | 19.6 | 101.8 | 3.5 | 23.9 | 10.7 | 8.0 | 2.8 | 10.7 | 0.9 |
| 45-64 years | 452.7 | 120.9 | 242.8 | 26.9 | 54.9 | 7.2 | 32.1 | 11.4 | 22.9 | 4.8 | 6.7 | 2.4 |
| 65 years and over | 694.9 | 161.9 | 388.3 | 59.5 | 68.6 | 16.7 | 82.5 | 28.8 | 50.6 | 10.1 | 16.6 | 5.3 |

* Figure does not meet standard of reliability or precision.
. . Category not applicable.
${ }^{1}$ 'Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{2}$ Age-adjusted

Table 6. Ambulatory care visits for the 10 principal reasons for visit most frequently mentioned by age and race for women 15 years of age and over: United States, annual average 1997-98

| Principal reason for visit and RVC code ${ }^{1}$ | Number in <br> thousands | Standard <br> error | Percent <br> distribution | Standard <br> error |
| :--- | :--- | :--- | :--- | :--- |
| Rate per <br> 100 women | Standard <br> error |  |  |  |


| All visits |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General medical examination | 3100 | 34,277 | 2,425 | 6.9 | 0.4 | ${ }^{3} 31.6$ | 2.2 |
| Prenatal examination, routine | 3205 | 28,793 | 2,539 | 5.8 | 0.5 | ${ }^{3} 26.4$ | 2.3 |
| Progress visit not otherwise specified | 4800 | 18,059 | 1,565 | 3.6 | 0.3 | ${ }^{3} 16.5$ | 1.4 |
| Stomach and abdominal pain, cramps, and spasms | 1545 | 12,120 | 623 | 2.4 | 0.1 | ${ }^{3} 11.2$ | 0.6 |
| Postoperative visit | 4205 | 11,165 | 837 | 2.2 | 0.1 | ${ }^{3} 10.3$ | 0.8 |
| Cough | 1440 | 10,558 | 681 | 2.1 | 0.2 | ${ }^{3} 9.7$ | 0.6 |
| Vision dysfunctions | 1305 | 8,632 | 838 | 1.7 | 0.1 | ${ }^{3} 7.8$ | 0.8 |
| Headache, pain in head | 1210 | 8,388 | 531 | 1.7 | 0.1 | ${ }^{3} 7.8$ | 0.5 |
| Symptoms referable to throat | 1455 | 8,047 | 522 | 1.6 | 0.1 | ${ }^{3} 7.4$ | 0.5 |
| Back symptoms | 1905 | 7,996 | 580 | 1.6 | 0.1 | ${ }^{3} 7.4$ | 0.5 |
| All other reasons |  | 351,751 | 10,588 | 70.4 | 0.6 | ${ }^{3} 323.8$ | 9.7 |

15-44 years:

| Prenatal examination, routine | 3205 |
| :---: | :---: |
| General medical examination | 3100 |
| Stomach and abdominal pain, cramps, and spasms | 1545 |

Symptoms referable to throat . . . . . . . . . . . . . . . . . . . . . 1455
Progress visit not otherwise specified . . . . . . . . . . . . . . . 4800
Headache, pain in head . . . . . . . . . . . . . . . . . . . . . 1210
28,755

| 2,538 | 12.5 | 0.9 | 47.4 | 4.2 |
| ---: | ---: | ---: | ---: | ---: |
| 1,456 | 6.6 | 0.5 | 25.2 | 2.4 |
| 379 | 2.8 | 0.2 | 10.8 | 0.6 |
| 417 | 2.4 | 0.2 | 9.2 | 0.7 |

Cough . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1440
Depression . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1110
Postoperative visit . . . . . . . . . . . . . . . . . . . . . . . . 4205
Back symptoms . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1905
All other reasons . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
45-64 years:
General medical examination . . . . . . . . . . . . . . . . . . . . . . 3100
Progress visit not otherwise specified . . . . . . . . . . . . . . . 4800
Postoperative visit . . . . . . . . . . . . . . . . . . . . . 4205

Stomach and abdominal pain, cramps, and spasms . . . . . . . 1545
Cough . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1440
Hypertension . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2510
Depression . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1110
Back symptoms . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1905
Knee symptoms . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1925
Chest pain and related symptoms . . . . . . . . . . . . . . . . . 1050
All other reasons . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
65 years and over:
General medical examination . . . . . . . . . . . . . . . . . . . . . 3100

Progress visit not otherwise specified . . . . . . . . . . . . . . . . . 4800
Vision dysfunctions . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1305
Postoperative visit . . . . . . . . . . . . . . . . . . . . . . . 4205
Cough . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1440

Hypertension . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2510
Chest pain and related symptoms . . . . . . . . . . . . . . . . . . 1050
Blood pressure test . . . . . . . . . . . . . . . . . . . . . . . . . . . 3320
Stomach and abdominal pain, cramps, and spasms . . . . . . . 1545
Knee symptoms . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1925
All other reasons
Race
Race
White:
General medical examination . . . . . . . . . . . . . . . . . . . . . . 3100
Prenatal examination, routine . . . . . . . . . . . . . . . . . 3205
Progress visit not otherwise specified . . . . . . . . . . . . . 4800
Postoperative visit . . . . . . . . . . . . . . . . . . . . . . . . . . 4205
Stomach and abdominal pain, cramps, and spasms . . . . . . . 1545
Cough . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1440
Vision dysfunctions . . . . . . . . . . . . . . . . . . . . . . . . 1305
Symptoms referable to throat . . . . . . . . . . . . . . . . . . 1455
Headache, pain in head . . . . . . . . . . . . . . . . . . . . 1210
Back symptoms . . . . . . . . . . . . . . . . . . . . . . . . . . . 1905
28,740
23,469
14,591
9,935
9,263
9,166
7,893
7,037
6,748
6,686
295,712
2,148
2,367
1,442
819
556
662
824
497
465
488
10,146
6.9
5.6
3.5
2.4
2.2
2.2
1.9
1.7
1.6
1.6
70.5
0.4
0.5
0.3
0.2
0.1
0.1
0.2
0.1
0.1
0.1
0.7

| ${ }^{3} 31.8$ | 2.4 |
| ---: | ---: |
| ${ }^{3} 26.9$ | 2.7 |
| ${ }^{3} 15.7$ | 1.6 |
| ${ }^{3} 10.8$ | 0.9 |
| ${ }^{3} 10.3$ | 0.6 |
| ${ }^{3} 10.1$ | 0.7 |
| ${ }^{3} 8.3$ | 0.9 |
| ${ }^{3} 7.9$ | 0.6 |
| ${ }^{3} 7.6$ | 0.5 |
| ${ }^{3} 7.4$ | 0.5 |
| ${ }^{3} 325.1$ | 11.1 |

[^4]Table 6. Ambulatory care visits for the 10 principal reasons for visit most frequently mentioned by age and race for women 15 years of age and over: United States, annual average 1997-98-Con.

| Principal reason for visit and RVC code ${ }^{1}$ |  | Number in thousands | Standard error | Percent distribution | Standard error | Rate per 100 women $^{2}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race-Continued |  |  |  |  |  |  |  |
| Black: |  |  |  |  |  |  |  |
| General medical examination | 3100 | 4,653 | 598 | 7.5 | 0.8 | ${ }^{3} 36.8$ | 5.2 |
| Prenatal examination, routine | 3205 | 3,855 | 627 | 6.2 | 0.9 | ${ }^{3} 24.4$ | 4.0 |
| Progress visit not otherwise specified | 4800 | 3,067 | 363 | 4.9 | 0.6 | ${ }^{3} 25.4$ | 3.1 |
| Stomach and abdominal pain, cramps, and spasms | 1545 | 2,104 | 205 | 3.4 | 0.3 | ${ }^{3} 15.2$ | 1.6 |
| Chest pain and related symptoms | 1050 | 1,431 | 202 | 2.3 | 0.3 | ${ }^{3} 11.7$ | 1.7 |
| Hypertension | 2510 | 1,276 | 272 | 2.0 | 0.4 | ${ }^{3} 10.8$ | 2.3 |
| Headache, pain in head | 1210 | 1,154 | 161 | 1.9 | 0.3 | ${ }^{3} 8.2$ | 1.1 |
| Knee symptoms | 1925 | 1,033 | 236 | 1.7 | 0.4 | ${ }^{3} 8.5$ | 1.9 |
| Postoperative visit | 4205 | 980 | 173 | 1.6 | 0.3 | ${ }^{3} 7.9$ | 1.5 |
| Medication, other and unspecified kinds | 4115 | 968 | 283 | 1.6 | 0.4 | ${ }^{3} 7.7$ | 2.2 |
| All other reasons |  | 41,969 | 2,859 | 67.2 | 1.4 | ${ }^{3} 321.9$ | 22.3 |

${ }^{1}$ Based on A Reason for Visit Classification for Ambulatory Care (RVC) (16).
${ }^{2}$ Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumetation using the 1990 National Population Adjustment Matrix.
${ }^{3}$ Age-adjusted.

Table 7. Ambulatory care visits for the 10 diagnosis groups most frequently mentioned by age and race for women 15 years of age and over: United States, average annual 1997-98

| Primary diagnosis group and ICD-9-CM Code(s) ${ }^{1}$ | Number in <br> thousands | Standard <br> error | Percent <br> distribution | Standard <br> error | Rate per <br> 100 women |
| :--- | :--- | :--- | :--- | :--- | :--- |


| All visits |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Normal pregnancy | V22 | 29,900 | 2,484 | 6.0 | 0.4 | ${ }^{3} 27.4$ | 2.3 |
| Essential hypertension | . 401 | 19,420 | 1,251 | 3.9 | 0.2 | ${ }^{3} 17.7$ | 1.2 |
| Arthropathies and related disorders | 710-719 | 15,279 | 1,391 | 3.1 | 0.3 | ${ }^{3} 14.1$ | 1.3 |
| Acute URI ${ }^{4}$, excluding pharyngitis | 460-461, 463-466 | 12,661 | 890 | 2.5 | 0.2 | ${ }^{3} 11.7$ | 0.8 |
| General medical examination | . V70 | 11,533 | 1,002 | 2.3 | 0.2 | ${ }^{3} 10.7$ | 0.9 |
| Rheumatism, excluding back | . . 725-729 | 11,317 | 674 | 2.3 | 0.1 | ${ }^{3} 10.5$ | 0.6 |
| Diabetes | . . . . . . 250 | 11,289 | 812 | 2.3 | 0.2 | ${ }^{3} 10.4$ | 0.8 |
| Dorsopathies | . . . 720-724 | 10,439 | 926 | 2.1 | 0.2 | ${ }^{3} 9.7$ | 0.9 |
| Malignant neoplasm | 140-208, 230-234 | 9,279 | 1,118 | 1.9 | 0.2 | ${ }^{3} 8.5$ | 1.0 |
| Gynecological examination | . V72.3 | 8,630 | 957 | 1.7 | 0.2 | ${ }^{3} 8.0$ | 0.9 |
| All other diagnoses . . . . |  | 360,039 | 10,705 | 72.0 | 0.6 | ${ }^{3} 331.3$ | 9.8 |


| Age |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-44 years: |  |  |  |  |  |  |
| Normal pregnancy . . . . . . . . . . . . . . . . . . . . . . . . V22 | 29,864 | 2,484 | 13.0 | 0.8 | 49.2 | 4.1 |
| Acute URI, ${ }^{4}$ excluding pharyngitis . . . . . . . . 460-461, 463-466 | 7,368 | 600 | 3.2 | 0.2 | 12.1 | 1.0 |
| General medical examination . . . . . . . . . . . . . . . . . . V70 | 7,157 | 660 | 3.1 | 0.3 | 11.8 | 1.1 |
| Complications of pregnancy, childbirth . . . . . . . . . . . 630-677 | 6,734 | 645 | 2.9 | 0.3 | 11.1 | 1.1 |
| Gynecological examination . . . . . . . . . . . . . . . . . . . V72.3 | 5,768 | 722 | 2.5 | 0.3 | 9.5 | 1.2 |
| Dorsopathies . . . . . . . . . . . . . . . . . . . . . . . . 720-724 | 4,603 | 635 | 2.0 | 0.3 | 7.6 | 1.1 |
| Rheumatism, excluding back . . . . . . . . . . . . . . . . 725-729 | 4,228 | 359 | 1.8 | 0.2 | 7.0 | 0.6 |
| Chronic sinusitis . . . . . . . . . . . . . . . . . . . . . . . . . . . 473 | 4,041 | 386 | 1.8 | 0.2 | 6.7 | 0.6 |
| Inflammatory disorders of female pelvic organs . . . . . 614-616 | 3,665 | 441 | 1.6 | 0.2 | 6.0 | 0.7 |
| Disorders of menstruation and abnormal bleeding . . . . . . . . 626 | 3,563 | 389 | 1.5 | 0.2 | 5.9 | 0.6 |
| All other diagnoses | 153,637 | 5,006 | 66.6 | 1.0 | 253.2 | 8.2 |
| 45-64 years: |  |  |  |  |  |  |
| Essential hypertension . . . . . . . . . . . . . . . . . . . . . . . 401 | 7,235 | 629 | 5.3 | 0.4 | 25.1 | 2.2 |
| Arthropathies and related disorders . . . . . . . . . . . . 710-719 | 5,970 | 636 | 4.4 | 0.4 | 20.7 | 2.2 |
| Diabetes . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 250 | 4,854 | 450 | 3.6 | 0.3 | 16.8 | 1.6 |
| Rheumatism, excluding back . . . . . . . . . . . . . . . . 725-729 | 4,285 | 357 | 3.1 | 0.3 | 14.9 | 1.2 |
| Dorsopathies . . . . . . . . . . . . . . . . . . . . . . . 720-724 | 3,577 | 387 | 2.6 | 0.3 | 12.4 | 1.3 |
| Malignant neoplasm . . . . . . . . . . . . . . . 140-208, 230-234 | 3,199 | 483 | 2.3 | 0.4 | 11.1 | 1.7 |
| Acute URI, ${ }^{4}$ excluding pharyngitis . . . . . . . 460-461, 463-466 | 3,044 | 354 | 2.2 | 0.3 | 10.6 | 1.2 |
| General medical examination . . . . . . . . . . . . . . . . . V70 | 2,926 | 353 | 2.1 | 0.3 | 10.2 | 1.2 |
| Menopausal and postmenopausal disorders . . . . . . . . . . . 627 | 2,917 | 378 | 2.1 | 0.3 | 10.1 | 1.3 |
| Gynecological examination . . . . . . . . . . . . . . . . . . . V72.3 | 2,311 | 336 | 1.7 | 0.2 | 8.0 | 1.2 |
| All other diagnoses | 96,170 | 3,138 | 70.5 | 0.9 | 333.6 | 10.9 |
| 65 years and over: |  |  |  |  |  |  |
| Essential hypertension . . . . . . . . . . . . . . . . . . . . . . . 401 | 10,331 | 785 | 7.8 | 0.5 | 55.4 | 4.2 |
| Arthropathies and related disorders . . . . . . . . . . . . 710-719 | 6,340 | 688 | 4.8 | 0.5 | 34.0 | 3.7 |
| Cataract . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 366 | 5,611 | 608 | 4.2 | 0.4 | 30.1 | 3.3 |
| Malignant neoplasm . . . . . . . . . . . . . . . 140-208, 230-234 | 4,799 | 539 | 3.6 | 0.4 | 25.8 | 2.9 |
| Diabetes . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 250 | 4,683 | 416 | 3.5 | 0.3 | 25.1 | 2.2 |
| Heart disease, excluding ischemic $\begin{array}{r}\ldots . .391-392.0,393-398, \\ 402,404,415-416,420-429\end{array}$ | 4,423 | 427 | 3.3 | 0.3 | 23.7 | 2.3 |
| Ischemic heart disease . . . . . . . . . . . . . . . . . . 410-414 | 4,204 | 530 | 3.2 | 0.4 | 22.6 | 2.8 |
| Glaucoma . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 365 | 3,059 | 398 | 2.3 | 0.3 | 16.4 | 2.1 |
| Rheumatism, excluding back . . . . . . . . . . . . . . . . 725-729 | 2,803 | 326 | 2.1 | 0.2 | 15.0 | 1.8 |
| Dorsopathies . . . . . . . . . . . . . . . . . . . . . . . 720-724 | 2,260 | 280 | 1.7 | 0.2 | 12.1 | 1.5 |
| All other diagnoses | 84,157 | 3,129 | 63.4 | 0.8 | 451.5 | 16.8 |


| Race |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White: |  |  |  |  |  |  |  |
| Normal pregnancy | V22 | 24,766 | 2,334 | 5.9 | 0.5 | ${ }^{3} 28.3$ | 2.7 |
| Essential hypertension | 401 | 15,148 | 1,122 | 3.6 | 0.2 | ${ }^{3} 15.9$ | 1.2 |
| Arthropathies and related disorders | 710-719 | 12,214 | 1,222 | 2.9 | 0.3 | ${ }^{3} 13.2$ | 1.3 |
| Acute URI, ${ }^{4}$ excluding pharyngitis | 460-461, 463-466 | 10,524 | 790 | 2.5 | 0.2 | ${ }^{3} 11.8$ | 0.9 |
| Rheumatism, excluding back | . 725-729 | 9,581 | 668 | 2.3 | 0.2 | ${ }^{3} 10.6$ | 0.7 |
| General medical examination | V70 | 9,537 | 844 | 2.3 | 0.2 | ${ }^{3} 10.8$ | 1.0 |
| Dorsopathies | 720-724 | 8,792 | 702 | 2.1 | 0.2 | ${ }^{3} 9.8$ | 0.8 |
| Diabetes | . . . . 250 | 8,534 | 695 | 2.0 | 0.2 | ${ }^{3} 9.2$ | 0.8 |
| Malignant neoplasm | 140-208, 230-234 | 8,439 | 987 | 2.0 | 0.2 | ${ }^{3} 8.6$ | 1.1 |
| Gynecological examination | . . V72.3 | 8,116 | 1,009 | 1.9 | 0.2 | ${ }^{3} 8.5$ | 1.0 |
| All other diagnoses | . | 304,544 | 10,455 | 72.6 | 0.7 | ${ }^{3} 335.2$ | 11.5 |

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Table 7. Ambulatory care visits for the 10 diagnosis groups most frequently mentioned by age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Primary diagnosis group and ICD-9-CM Code(s) ${ }^{1}$ | Number in thousands | Standard error | Percent distribution | Standard error | Rate per 100 women $^{2}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race-Continued |  |  |  |  |  |  |
| Black: |  |  |  |  |  |  |
| Normal pregnancy . . . . . . . . . . . . . . . . . . . . . . . . . V22 | 3,773 | 525 | 6.0 | 0.8 | ${ }^{3} 23.9$ | 3.3 |
| Essential hypertension . . . . . . . . . . . . . . . . . . . . . . . . 401 | 3,437 | 474 | 5.5 | 0.6 | ${ }^{3} 29.4$ | 4.1 |
| Diabetes . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 250 | 2,524 | 367 | 4.0 | 0.5 | ${ }^{3} 21.9$ | 3.2 |
| Arthropathies and related disorders . . . . . . . . . . . . 710-719 | 2,340 | 363 | 3.7 | 0.5 | ${ }^{3} 19.8$ | 3.2 |
| General medical examination . . . . . . . . . . . . . . . . . . V70 | 1,553 | 256 | 2.5 | 0.4 | ${ }^{3} 11.5$ | 2.0 |
| Complications of pregnancy, childbirth . . . . . . . . . . 620-709 | 1,546 | 291 | 2.5 | 0.4 | ${ }^{3} 9.8$ | 1.8 |
| Acute URI, ${ }^{4}$ excluding pharyngitis . . . . . . . 460-461, 463-466 | 1,469 | 238 | 2.4 | 0.3 | ${ }^{3} 11.1$ | 1.9 |
| Rheumatism, excluding back . . . . . . . . . . . . . . . . 725-729 | 1,319 | 264 | 2.1 | 0.4 | ${ }^{3} 10.3$ | 2.0 |
| Inflammatory disorders of female pelvic organs . . . . . 614-616 | 1,147 | 206 | 1.8 | 0.3 | ${ }^{3} 7.6$ | 1.4 |
| Benign neoplasm . . . . . . . . . . . . . . . . . 210-229, 235-239 | 1,088 | 181 | 1.7 | 0.3 | ${ }^{3} 8.8$ | 2.6 |
| All other diagnoses | 42,293 | 2,543 | 67.7 | 1.2 | ${ }^{3} 325.1$ | 20.0 |

${ }^{1}$ These groups are based on the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM). However, certain codes have been combined in this table to form larger categories that better describe the utilization of ambulatory care services.
 for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{3}$ Age-adjusted.
${ }^{4}$ URI is upper respiratory infection.

Table 8. Injury-related ambulatory care visits by age and race for women 15 years of age and over: United States, average annual 1997-98

| Characteristic | Number in thousands | Standard error | Percent distribution of all visits | Standard error | Percent distribution of injury visits | Standard error | Rate per 100 women ${ }^{1}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All injury visits | 54,611 | 2,145 | 10.9 | 0.3 | 100.0 |  | ${ }^{2} 50.3$ | 2.0 |
| Age |  |  |  |  |  |  |  |  |
| 15-44 years | 27,929 | 1,275 | 12.1 | 0.5 | 51.1 | 1.1 | 46.0 | 2.1 |
| 45-64 years | 14,373 | 636 | 10.5 | 0.4 | 26.3 | 0.8 | 49.9 | 2.2 |
| 65 years and over | 12,309 | 782 | 9.3 | 0.5 | 22.5 | 1.0 | 66.0 | 4.2 |
| Age and race |  |  |  |  |  |  |  |  |
| White | 45,432 | 1,913 | 10.8 | 0.3 | 100.0 |  | ${ }^{2} 50.3$ | 2.1 |
| 15-44 years | 22,351 | 1,082 | 11.9 | 0.5 | 49.2 | 1.2 | 46.0 | 2.2 |
| 45-64 years | 12,047 | 599 | 10.5 | 0.4 | 26.5 | 0.9 | 49.5 | 2.5 |
| 65 years and over | 11,034 | 753 | 9.4 | 0.5 | 24.3 | 1.2 | 66.8 | 4.6 |
| Black | 6,696 | 497 | 10.7 | 0.6 | 100.0 | $\ldots$ | ${ }^{2} 49.6$ | 3.7 |
| 15-44 years | 4,086 | 351 | 12.2 | 0.9 | 61.0 | 2.5 | 46.4 | 4.0 |
| 45-64 years | 1,657 | 184 | 10.0 | 1.0 | 24.8 | 2.0 | 50.9 | 5.6 |
| 65 years and over | 952 | 143 | 7.7 | 1.2 | 14.2 | 1.9 | 58.7 | 8.8 |

... Category not applicable.
 for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{2}$ Age-adjusted.

Table 9. Ambulatory care visits by place of occurrence, whether injury was work related, intent, and mechanism for women 15 years of age and over: United States, average annual 1997-98

| Characteristic | Number in thousands | Standard error | Percent distribution | Standard error | Rate per 100 women ${ }^{1}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All injury-related visits | 54,611 | 2,145 | 100.0 | $\ldots$ | 50.3 | 2.0 |
| Place of occurrence |  |  |  |  |  |  |
| Home | 10,626 | 586 | 19.5 | 0.8 | 9.7 | 0.5 |
| Recreation/sports area | 2,027 | 227 | 3.7 | 0.4 | 1.9 | 0.2 |
| Street or highway | 6,645 | 666 | 12.2 | 1.1 | 6.2 | 0.6 |
| Other public place | 2,408 | 252 | 4.4 | 0.4 | 2.2 | 0.2 |
| Industrial places | 3,649 | 406 | 6.7 | 0.7 | 3.4 | 0.4 |
| Other and unknown ${ }^{2}$ | 29,256 | 1,376 | 53.6 | 1.4 | 27.0 | 1.3 |
| Work related |  |  |  |  |  |  |
| Yes | 8,281 | 699 | 15.2 | 1.0 | 7.7 | 0.7 |
| No | 21,963 | 1,152 | 40.2 | 1.4 | 20.2 | 1.1 |
| Unknown/blank | 24,367 | 1,093 | 44.6 | 1.4 | 22.4 | 1.0 |
| Intent |  |  |  |  |  |  |
| Yes (self-inflicted) | 497 | 85 | 0.9 | 0.2 | 0.5 | 0.1 |
| Yes (assault) | 1,283 | 160 | 2.4 | 0.3 | 1.2 | 0.2 |
| No (unintentional) | 37,995 | 1,624 | 69.6 | 1.2 | 35.0 | 1.5 |
| Unknown/blank | 14,837 | 844 | 27.2 | 1.1 | 13.7 | 0.8 |
| Mechanism |  |  |  |  |  |  |
| Falls | 9,385 | 541 | 17.2 | 0.9 | 8.6 | 0.5 |
| Motor vehicle traffic | 6,102 | 652 | 11.2 | 1.1 | 5.7 | 0.6 |
| Struck against or struck accidentally by objects or persons | 3,737 | 294 | 6.8 | 0.5 | 3.5 | 0.3 |
| Overexertion | 3,682 | 412 | 6.7 | 0.7 | 3.4 | 0.4 |
| Natural and environmental factors | 1,842 | 205 | 3.4 | 0.4 | 1.7 | 0.2 |
| Cutting or piercing | 1,509 | 154 | 2.8 | 0.3 | 1.4 | 0.1 |
| Poisonings | 1,134 | 163 | 2.1 | 0.3 | 1.0 | 0.1 |
| Other and not elsewhere classified | 8,217 | 517 | 15.1 | 0.8 | 7.6 | 0.5 |
| Not specified | 5,044 | 429 | 9.2 | 0.7 | 4.7 | 0.4 |
| Blank . | 13,959 | 882 | 25.6 | 1.1 | 12.9 | 0.8 |

[^6]2"Other" and "unknown" were combined because of a processing error in 1997.

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Table 10. Visits to office-based physicians and hospital outpatient departments for selected diagnostic and screening services ordered or provided, by age and race for women 15 years of age and over: United States, average annual 1997-98


See footnotes at end of table.

Table 10. Visits to office-based physicians and hospital outpatient departments for selected diagnostic and screening services ordered or provided, by age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Diagnostic and screening services ordered or provided | All visits | Age |  |  | Race |  | All visits | Age |  |  | Race |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 15-44 \\ & \text { years } \end{aligned}$ | 45-64 years | 65 years and over | White | Black |  | 15-44 years | $\begin{aligned} & 45-64 \\ & \text { years } \end{aligned}$ | 65 years and over | White | Black |
|  | Number of visits per 100 women per year ${ }^{2}$ |  |  |  |  |  | Standard error |  |  |  |  |  |
| All visits | ${ }^{3} 421.7$ | 340.4 | 444.3 | 662.9 | ${ }^{3} 426.7$ | ${ }^{3} 413.8$ | 13.3 | 12.7 | 14.9 | 26.8 | 15.3 | 30.1 |
| No services | ${ }^{3} 86.3$ | 72.2 | 96.6 | 116.6 | ${ }^{3} 90.7$ | ${ }^{3} 67.1$ | 4.4 | 4.0 | 5.6 | 8.1 | 5.1 | 5.9 |
| Exams |  |  |  |  |  |  |  |  |  |  |  |  |
| Breast | ${ }^{3} 47.1$ | 44.7 | 51.9 | 47.0 | ${ }^{3} 47.4$ | ${ }^{3} 45.0$ | 2.5 | 3.0 | 3.3 | 3.7 | 2.7 | 4.8 |
| Pelvic | ${ }^{3} 58.1$ | 68.3 | 51.6 | 34.7 | ${ }^{3} 59.0$ | ${ }^{3} 56.6$ | 3.5 | 4.9 | 3.7 | 3.1 | 4.0 | 5.8 |
| Rectal | ${ }^{3} 19.9$ | 14.9 | 25.9 | 26.5 | ${ }^{3} 20.3$ | ${ }^{3} 15.4$ | 1.3 | 1.4 | 2.1 | 2.5 | 1.4 | 2.5 |
| Skin | ${ }^{3} 35.9$ | 28.4 | 40.3 | 54.2 | ${ }^{3} 37.0$ | ${ }^{3} 30.9$ | 2.4 | 2.2 | 3.1 | 5.5 | 2.6 | 4.2 |
| Vision | ${ }^{3} 27.5$ | 11.6 | 27.4 | 82.7 | ${ }^{3} 27.4$ | ${ }^{3} 26.1$ | 2.2 | 1.0 | 2.5 | 8.1 | 2.3 | 3.5 |
| Glaucoma | ${ }^{3} 17.3$ | 4.6 | 18.5 | 59.0 | ${ }^{3} 17.0$ | ${ }^{3} 17.0$ | 1.6 | 0.6 | 2.1 | 5.9 | 1.7 | 2.9 |
| Hearing | ${ }^{3} 4.8$ | 3.5 | 5.2 | 8.3 | ${ }^{3} 4.1$ | ${ }^{3} 5.0$ | 0.7 | 0.6 | 0.8 | 2.0 | 0.4 | 1.1 |
| Tests |  |  |  |  |  |  |  |  |  |  |  |  |
| Blood pressure | ${ }^{3} 236.2$ | 196.0 | 243.5 | 362.2 | ${ }^{3} 235.9$ | ${ }^{3} 254.1$ | 9.2 | 9.3 | 10.3 | 18.4 | 10.0 | 26.5 |
| Hemoglobin | ${ }^{3} 24.0$ | 18.0 | 27.5 | 38.4 | ${ }^{3} 23.3$ | ${ }^{3} 27.6$ | 1.6 | 1.6 | 2.2 | 3.7 | 1.8 | 3.6 |
| Pap | ${ }^{3} 35.4$ | 38.3 | 37.9 | 21.2 | ${ }^{3} 36.6$ | ${ }^{3} 32.1$ | 2.4 | 3.0 | 3.2 | 2.2 | 2.7 | 3.3 |
| Urinalysis | ${ }^{3} 57.1$ | 66.7 | 40.3 | 53.2 | ${ }^{3} 56.4$ | ${ }^{3} 65.8$ | 3.5 | 5.1 | 3.0 | 4.4 | 3.9 | 8.7 |
| Pregnancy test | ${ }^{3} 5.2$ | 9.0 | * | 0.0 | ${ }^{3} 4.8$ | ${ }^{3} 7.8$ | 0.5 | 0.9 | . . | . . | 0.5 | 1.5 |
| Cholesterol measure | ${ }^{3} 15.3$ | 7.1 | 21.0 | 33.6 | ${ }^{3} 14.6$ | ${ }^{3} 18.2$ | 1.0 | 0.8 | 1.8 | 3.3 | 1.1 | 2.7 |
| HIV serology | ${ }^{3} 1.8$ | 2.7 | *0.7 | * | ${ }^{3} 1.6$ | ${ }^{3} 2.3$ | 0.3 | 0.4 | 0.3 | . . | 0.3 | 0.5 |
| Other STD ${ }^{1}$ test | ${ }^{3} 3.6$ | 5.3 | *1.5 | * | ${ }^{3} 3.0$ | ${ }^{3} 7.0$ | 0.5 | 0.8 | 0.5 | ... | 0.5 | 1.2 |
| Imaging |  |  |  |  |  |  |  |  |  |  |  |  |
| EKG ${ }^{1}$ | ${ }^{3} 10.9$ | 4.0 | 12.2 | 32.2 | ${ }^{3} 10.6$ | ${ }^{3} 14.4$ | 0.8 | 0.4 | 1.3 | 3.1 | 0.9 | 2.0 |
| Mammography | ${ }^{3} 14.6$ | 6.9 | 27.1 | 19.3 | ${ }^{3} 14.5$ | ${ }^{3} 16.7$ | 1.1 | 0.7 | 2.3 | 2.1 | 1.1 | 2.7 |
| Ultrasound | ${ }^{3} 15.4$ | 17.9 | 11.1 | 14.6 | ${ }^{3} 14.7$ | ${ }^{3} 16.1$ | 1.3 | 2.0 | 1.3 | 1.7 | 1.3 | 2.3 |
| CAT scan/MRI ${ }^{1}$ | ${ }^{3} 4.6$ | 3.2 | 5.4 | 7.6 | ${ }^{3} 4.6$ | ${ }^{3} 4.9$ | 0.3 | 0.3 | 0.7 | 1.0 | 0.3 | 0.9 |
| x ray . . . . . . . . . . | ${ }^{3} 24.4$ | 15.1 | 28.3 | 49.8 | ${ }^{3} 24.5$ | ${ }^{3} 26.5$ | 1.3 | 0.9 | 2.0 | 3.8 | 1.5 | 2.8 |

* Figure does not meet standard of reliability or precision.
0.0 Quantity more than zero but less than 0.05 .
.. Category not applicable.
${ }^{1}$ EKG is electrocardiogram; CAT is computerized axial tomography; MRI is magnetic resonance imaging; HIV is human immunodeficiency virus; and STD is sexually transmitted diseases.
 for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{3}$ Age-adjusted.

Table 11. Visits to office-based physicians and hospital outpatient departments for selected therapeutic and preventive services ordered or provided, by age and race for women 15 years of age and over: United States, average annual 1997-98


See footnotes at end of table.

Table 11. Visits to office-based physicians and hospital outpatient departments for selected therapeutic and preventive services ordered or provided, by age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Therapeutic and preventive services ordered or provided | All visits | Age |  |  | Race |  | All visits | Age |  |  | Race |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 15-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-64 \\ & \text { years } \end{aligned}$ | 65 years and over | White | Black |  | 15-44 years | $\begin{aligned} & 45-64 \\ & \text { years } \end{aligned}$ | 65 years and over | White | Black |
|  | Number of visits per 100 women per year ${ }^{2}$ |  |  |  |  |  | Standard error |  |  |  |  |  |
| All | ${ }^{3} 421.7$ | 346.6 | 474.4 | 910.3 | ${ }^{3} 426.7$ | ${ }^{3} 413.8$ | 13.3 | 12.9 | 15.9 | 36.9 | 15.3 | 30.1 |
| No services | ${ }^{3} 248.1$ | 183.3 | 263.9 | 444.6 | ${ }^{3} 250.7$ | ${ }^{3} 254.6$ | 8.9 | 8.3 | 10.4 | 19.4 | 10.3 | 21.8 |
| Counseling/education |  |  |  |  |  |  |  |  |  |  |  |  |
| Diet | ${ }^{3} 64.8$ | 49.2 | 74.6 | 101.7 | ${ }^{3} 63.0$ | ${ }^{3} 71.3$ | 3.4 | 3.5 | 4.5 | 7.4 | 3.7 | 6.5 |
| Exercise | ${ }^{3} 47.2$ | 35.6 | 57.3 | 69.3 | ${ }^{3} 47.5$ | ${ }^{3} 44.8$ | 3.0 | 3.0 | 4.0 | 6.0 | 3.3 | 4.9 |
| Prenatal instructions | ${ }^{3} 20.0$ | 35.8 | * | * | ${ }^{3} 20.2$ | ${ }^{3} 19.8$ | 1.9 | 3.5 | ... | . . | 2.1 | 3.9 |
| Breast self-exams | ${ }^{3} 17.9$ | 16.8 | 22.7 | 13.4 | ${ }^{3} 18.5$ | ${ }^{3} 13.9$ | 1.6 | 1.9 | 2.2 | 1.9 | 1.7 | 2.0 |
| Stress | ${ }^{3} 12.5$ | 10.7 | 15.0 | 14.4 | ${ }^{3} 12.9$ | ${ }^{3} 8.8$ | 1.2 | 1.3 | 1.5 | 2.8 | 1.3 | 1.6 |
| Mental health | ${ }^{3} 11.8$ | 11.2 | 12.8 | 11.9 | ${ }^{3} 12.3$ | ${ }^{3} 8.7$ | 1.2 | 1.2 | 1.6 | 1.8 | 1.3 | 1.3 |
| Family planning | ${ }^{3} 11.6$ | 20.1 | 1.4 | * | ${ }^{3} 10.8$ | ${ }^{3} 14.4$ | 1.1 | 1.9 | 0.3 | . . | 1.1 | 2.4 |
| Tobacco use . . | ${ }^{3} 11.6$ | 11.0 | 14.0 | 9.4 | ${ }^{3} 12.1$ | ${ }^{3} 10.9$ | 0.9 | 1.2 | 1.3 | 1.3 | 1.0 | 1.5 |
| Injury prevention | ${ }^{3} 7.4$ | 5.9 | 6.5 | 14.4 | ${ }^{3} 7.9$ | ${ }^{3} 5.0$ | 0.9 | 0.8 | 1.0 | 2.4 | 0.9 | 1.3 |
| Skin cancer prevention | ${ }^{3} 7.2$ | 4.6 | 9.1 | 13.2 | ${ }^{3} 8.1$ | * | 1.0 | 0.7 | 1.6 | 2.2 | 1.2 | . . |
| HIV/STD ${ }^{1}$ transmission | ${ }^{3} 5.3$ | 8.2 | *2.2 | * | ${ }^{3} 4.5$ | ${ }^{3} 10.2$ | 0.9 | 1.3 | 0.7 | ... | 0.8 | 2.1 |
| Growth/development | ${ }^{3} 2.0$ | 3.2 | * | * | ${ }^{3} 2.1$ | ${ }^{3 *} 1.2$ | 0.4 | 0.7 | . . . | $\ldots$ | 0.5 | 0.4 |
| Other therapy |  |  |  |  |  |  |  |  |  |  |  |  |
| Physiotherapy | ${ }^{3} 12.5$ | 10.2 | 15.3 | 15.5 | ${ }^{3} 12.3$ | ${ }^{3} 10.3$ | 1.2 | 1.4 | 1.7 | 2.3 | 1.1 | 1.8 |
| Psychotherapy | ${ }^{3} 10.8$ | 10.5 | 13.4 | 7.6 | ${ }^{3} 12.0$ | ${ }^{3} 6.5$ | 1.0 | 1.0 | 1.5 | 1.0 | 1.1 | 1.0 |
| Psycho-pharmacotherapy | ${ }^{3} 9.5$ | 8.2 | 13.0 | 8.0 | ${ }^{3} 10.6$ | ${ }^{3} 4.8$ | 1.1 | 1.1 | 1.6 | 1.2 | 1.2 | 0.9 |
| Other | ${ }^{3} 33.4$ | 23.8 | 37.5 | 59.3 | ${ }^{3} 34.2$ | ${ }^{3} 29.0$ | 2.0 | 1.7 | 2.5 | 5.2 | 2.2 | 3.2 |

[^7]. . Category not applicable.
${ }^{1} \mathrm{HIV}$ is human immunodeficiency virus and STD is sexually transmitted diseases.
${ }^{2}$ Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{3}$ Age-adjusted.

Table 12. Ambulatory care visits by number of medications provided or prescribed, by age and race for women 15 years of age and over: United States, average annual 1997-98

| Characteristic |  | Number of medications provided or prescribed |  |  |  |  | All visits | Number of medications provided or prescribed |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All visits | 0 | 1 | 2 | 3 | 4 and over |  | 0 | 1 | 2 | 3 | 4 and over |
|  | Number of visits in thousands |  |  |  |  |  | Standard error |  |  |  |  |  |
| Total | 499,785 | 174,837 | 138,521 | 85,604 | 43,812 | 57,011 | 14,828 | 6,428 | 4,644 | 3,312 | 1,968 | 3,149 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 230,628 | 90,149 | 72,925 | 39,670 | 16,424 | 11,460 | 7,896 | 4,286 | 2,865 | 1,855 | 995 | 705 |
| 45-64 years | 136,487 | 43,937 | 34,600 | 25,002 | 13,726 | 19,222 | 4,386 | 1,781 | 1,356 | 1,237 | 730 | 1,233 |
| 65 years and over. | 132,670 | 40,751 | 30,996 | 20,932 | 13,662 | 26,329 | 5,076 | 1,901 | 1,437 | 1,072 | 827 | 1,844 |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 419,240 | 147,159 | 116,297 | 72,127 | 36,127 | 47,530 | 14,332 | 6,247 | 4,334 | 3,109 | 1,774 | 2,975 |
| 15-44 years | 187,478 | 73,368 | 59,287 | 32,579 | 13,314 | 8,930 | 7,462 | 3,972 | 2,668 | 1,750 | 908 | 639 |
| 45-64 years . . . | 114,875 | 37,642 | 29,771 | 20,974 | 10,895 | 15,592 | 4,187 | 1,728 | 1,294 | 1,118 | 612 | 1,099 |
| 65 years and over | 116,887 | 36,149 | 27,239 | 18,574 | 11,918 | 23,007 | 4,883 | 1,794 | 1,316 | 1,018 | 781 | 1,781 |
| Black . . . . . . . . | 62,489 | 20,876 | 17,414 | 10,017 | 6,133 | 8,048 | 4,001 | 1,227 | 1,301 | 872 | 576 | 902 |
| 15-44 years | 33,521 | 12,474 | 10,759 | 5,482 | 2,565 | 2,241 | 2,228 | 884 | 938 | 509 | 288 | 302 |
| 45-64 years . . | 16,533 | 4,613 | 3,787 | 2,870 | 2,234 | 3,029 | 1,096 | 385 | 363 | 334 | 239 | 345 |
| 65 years and over | 12,435 | 3,790 | $2,868$ | 1,665 | 1,335 | 2,778 | 1,369 | 390 | 377 | 252 | 272 | 514 |
| Percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 100.0 | 35.0 | 27.7 | 17.1 | 8.8 | 11.4 | ... | 0.9 | 0.5 | 0.4 | 0.3 | 0.5 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 100.0 | 39.1 | 31.6 | 17.2 | 7.1 | 5.0 | $\ldots$ | 1.2 | 0.8 | 0.5 | 0.3 | 0.3 |
| 45-64 years | 100.0 | 32.2 | 25.4 | 18.3 | 10.1 | 14.1 | . . . | 1.0 | 0.7 | 0.6 | 0.4 | 0.7 |
| 65 years and over | 100.0 | 30.7 | 23.4 | 15.8 | 10.3 | 19.9 | $\ldots$ | 1.1 | 0.7 | 0.6 | 0.5 | 1.0 |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 100.0 | 35.1 | 27.7 | 17.2 | 8.6 | 11.3 | $\ldots$ | 1.0 | 0.6 | 0.5 | 0.3 | 0.5 |
| 15-44 years | 100.0 | 39.1 | 31.6 | 17.4 | 7.1 | 4.8 | ... | 1.3 | 0.9 | 0.6 | 0.4 | 0.3 |
| 45-64 years | 100.0 | 32.8 | 25.9 | 18.3 | 9.5 | 13.6 | . | 1.1 | 0.7 | 0.7 | 0.4 | 0.7 |
| 65 years and over | 100.0 | 30.9 | 23.3 | 15.9 | 10.2 | 19.7 | . . . | 1.1 | 0.7 | 0.6 | 0.5 | 1.0 |
| Black . . . . . | 100.0 | 33.4 | 27.9 | 16.0 | 9.8 | 12.9 | ... | 1.4 | 1.0 | 0.7 | 0.6 | 0.9 |
| 15-44 years | 100.0 | 37.2 | 32.1 | 16.4 | 7.7 | 6.7 | . . . | 1.8 | 1.3 | 0.8 | 0.8 | 0.8 |
| 45-64 years . . . | 100.0 | 27.9 | 22.9 | $17.4$ | $13.5$ | 18.3 | $\ldots$ | 1.9 | 1.6 | 1.4 | 1.1 | 1.6 |
| 65 years and over | 100.0 | 30.5 | 23.1 | 13.4 | 10.7 | 22.3 | . . . | 2.3 | 2.3 | 1.5 | 1.4 | 2.4 |
| Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| All visits ${ }^{2}$ | 459.9 | 160.9 | 127.6 | 79.0 | 40.3 | 52.1 | 13.6 | 5.9 | 4.3 | 3.1 | 1.8 | 2.9 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-44 years | 380.1 | 148.6 | 120.2 | 65.4 | 27.1 | 18.9 | 13.0 | 7.1 | 4.9 | 3.1 | 1.6 | 1.2 |
| 45-64 years | 473.5 | 152.4 | 120.0 | 86.7 | 47.6 | 66.7 | 15.2 | 6.2 | 4.7 | 4.3 | 2.5 | 4.3 |
| 65 years and over | 711.8 | 218.6 | 166.3 | 112.3 | 73.3 | 141.3 | 27.2 | 10.2 | 7.7 | 5.8 | 4.4 | 9.9 |

Table 12. Ambulatory care visits by number of medications provided or prescribed, by age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

|  |  | Number of medications provided or prescribed |  |  |  |  | All visits | Number of medications provided or prescribed |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Characteristic | All visits | 0 | 1 | 2 | 3 | 4 and over |  | 0 | 1 | 2 | 3 | 4 and over |
|  | Number of visits per 100 women per year ${ }^{1}$ |  |  |  |  |  | Standard error |  |  |  |  |  |
| Age and race |  |  |  |  |  |  |  |  |  |  |  |  |
| White ${ }^{2}$ | 461.9 | 162.9 | 129.0 | 79.7 | 39.5 | 50.8 | 15.8 | 7.0 | 4.8 | 3.5 | 1.9 | 3.1 |
| 15-44 years | 385.6 | 150.9 | 121.9 | 67.0 | 27.4 | 18.4 | 15.3 | 8.2 | 5.5 | 3.6 | 1.9 | 1.3 |
| 45-64 years | 472.0 | 154.7 | 122.3 | 86.2 | 44.8 | 64.1 | 17.2 | 7.1 | 5.3 | 4.6 | 2.5 | 4.5 |
| 65 years and over | 707.6 | 218.8 | 164.9 | 112.5 | 72.2 | 139.3 | 29.5 | 10.8 | 8.0 | 6.2 | 4.7 | 10.8 |
| Black ${ }^{2}$. . . . . | 478.5 | 156.4 | 129.3 | 76.0 | 48.8 | 68.0 | 31.4 | 9.1 | 9.6 | 6.8 | 4.8 | 7.9 |
| 15-44 years | 380.7 | 141.7 | 122.2 | 62.3 | 29.1 | 25.5 | 25.3 | 10.0 | 10.6 | 5.8 | 3.3 | 3.4 |
| 45-64 years | 507.2 | 141.5 | 116.2 | 88.1 | 68.5 | 92.9 | 33.6 | 11.8 | 11.1 | 10.2 | 7.3 | 10.6 |
| 65 years and over | 765.9 | 233.4 | 176.6 | 102.6 | 82.2 | 171.1 | 84.3 | 24.0 | 23.2 | 15.5 | 16.7 | 31.7 |

[^8]Page $36 \square$ Series 13, No. 149

Table 13. Drug mentions of the 10 generic substances most frequently used at ambulatory care visits by age and race for women 15 years of age and over: United States, average annual 1997-98

| Generic substance | Number in thousands ${ }^{1}$ | Standard error | Percent distribution | Standard error | Rate per 100 women per year ${ }^{2}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All visits |  |  |  |  |  |  |
| Acetaminophen | 31,361 | 1,666 | 3.6 | 0.2 | ${ }^{3} 28.9$ | 1.5 |
| Estrogens | 19,401 | 1,290 | 2.2 | 0.1 | ${ }^{3} 18.2$ | 1.2 |
| Hydrochlorothiazide | 13,885 | 1,055 | 1.6 | 0.1 | ${ }^{3} 12.7$ | 1.0 |
| Ibuprofen | 13,139 | 722 | 1.5 | 0.1 | ${ }^{3} 12.2$ | 0.7 |
| Levothyroxine | 11,879 | 988 | 1.4 | 0.1 | ${ }^{3} 10.9$ | 0.9 |
| Estradiol | 11,439 | 1,166 | 1.3 | 0.1 | ${ }^{3} 10.6$ | 1.1 |
| Furosemide | 10,835 | 830 | 1.2 | 0.1 | ${ }^{3} 8.7$ | 0.8 |
| Medroxyprogesterone | 10,700 | 728 | 1.2 | 0.1 | ${ }^{3} 10.1$ | 0.7 |
| Hydrocodone | 10,651 | 685 | 1.2 | 0.1 | ${ }^{3} 9.8$ | 0.6 |
| Aspirin | 10,453 | 686 | 1.2 | 0.1 | ${ }^{3} 9.4$ | 0.6 |
| All others | 728,668 | 28,170 | 83.5 | 0.3 | ${ }^{3} 668.9$ | 25.8 |



[^9]Table 13. Drug mentions of the 10 generic substances most frequently used at ambulatory care visits by age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Generic substance | Number in thousands ${ }^{1}$ | Standard error | Percent distribution | Standard error | Rate per 100 women per year ${ }^{2}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race-Continued |  |  |  |  |  |  |
| Black: |  |  |  |  |  |  |
| Acetaminophen | 4,570 | 443 | 4.0 | 0.3 | ${ }^{3} 34.8$ | 3.6 |
| Hydrochlorothiazide | 2,846 | 550 | 2.5 | 0.3 | ${ }^{3} 24.4$ | 4.8 |
| Ibuprofen | 2,398 | 213 | 2.1 | 0.2 | ${ }^{3} 17.7$ | 1.7 |
| Estrogens | 1,799 | 339 | 1.6 | 0.3 | ${ }^{3} 15.4$ | 2.8 |
| Insulin | 1,746 | 264 | 1.5 | 0.2 | ${ }^{3} 15.4$ | 2.4 |
| Iron preparations | 1,714 | 336 | 1.5 | 0.3 | ${ }^{3} 12.1$ | 2.4 |
| Furosemide | 1,645 | 275 | 1.4 | 0.2 | ${ }^{3} 14.8$ | 2.5 |
| Nifedipine | 1,537 | 269 | 1.4 | 0.2 | ${ }^{3} 13.4$ | 2.3 |
| Albuterol | 1,525 | 183 | 1.3 | 0.2 | ${ }^{3} 11.7$ | 1.5 |
| Hydrocodone | 1,466 | 300 | 1.3 | 0.2 | ${ }^{3} 10.9$ | 2.2 |
| All others | 92,612 | 7,787 | 81.3 | 0.7 | ${ }^{3} 730.6$ | 65.0 |

[^10] for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{3}$ Age-adjusted.

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Table 14. Drug mentions of the 10 therapeutic classes of drugs most frequently used at ambulatory care visits by age and race for women 15 years of age and over: United States, average annual 1997-98

| Therapeutic classes (4-digit) | Number in thousands | Standard error | Percent distribution | Standard error | Rate per 100 women per year ${ }^{1}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All visits |  |  |  |  |  |  |
| Analgesics, nonnarcotic | 34,375 | 1,800 | 4.7 | 0.2 | ${ }^{2} 31.5$ | 1.7 |
| Antidepressants | 33,692 | 1,985 | 4.7 | 0.2 | ${ }^{2} 31.3$ | 1.8 |
| Estrogens/progestins | 31,664 | 1,987 | 4.4 | 0.2 | ${ }^{2} 29.7$ | 1.9 |
| Nonsteroidal anti-inflammatory drug (NSAID) | 28,911 | 1,333 | 4.0 | 0.2 | ${ }^{2} 26.7$ | 1.2 |
| Disorders, acid/peptic | 22,601 | 1,291 | 3.1 | 0.1 | ${ }^{2} 20.8$ | 1.2 |
| Antihistamines | 22,091 | 1,273 | 3.1 | 0.1 | ${ }^{2} 20.5$ | 1.2 |
| Vitamins/minerals | 22,000 | 1,924 | 3.0 | 0.2 | ${ }^{2} 20.1$ | 1.8 |
| Antiasthmatics/bronchodilators | 20,745 | 1,527 | 2.9 | 0.2 | ${ }^{2} 19.1$ | 1.4 |
| Blood glucose regulators | 20,536 | 1,434 | 2.8 | 0.2 | ${ }^{2} 18.9$ | 1.3 |
| Calcium channel blockers | 20,248 | 1,280 | 2.8 | 0.1 | ${ }^{2} 18.3$ | 1.2 |
| All other classes | 467,766 | 18,203 | 64.6 | 0.5 | ${ }^{2} 189.0$ | 6.5 |

Age
15-44 years:
Vitamins/minerals . . . . . . . . . . . . . . . . . .

| Race |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White: ${ }^{2}$ |  |  |  |  |  |  |
| Antidepressants | 30,090 | 1,868 | 5.0 | 0.2 | ${ }^{2} 33.5$ | 2.1 |
| Estrogens/progestins | 27,847 | 1,832 | 4.6 | 0.2 | ${ }^{2} 30.8$ | 2.0 |
| Analgesics, nonnarcotic | 27,748 | 1,549 | 4.6 | 0.2 | ${ }^{2} 30.1$ | 1.7 |
| Nonsteroidal anti-inflammatory drug (NSAID) | 23,090 | 1,229 | 3.8 | 0.2 | ${ }^{2} 25.7$ | 1.4 |
| Antihistamines | 18,950 | 1,193 | 3.1 | 0.1 | ${ }^{2} 21.2$ | 1.3 |
| Disorders, acid/peptic | 18,677 | 1,190 | 3.1 | 0.1 | ${ }^{2} 20.2$ | 1.3 |
| Vitamins/minerals | 18,007 | 1,797 | 3.0 | 0.3 | ${ }^{2} 20.0$ | 2.0 |
| Antiasthmatics/bronchodilators | 17,196 | 1,382 | 2.8 | 0.2 | ${ }^{2} 18.7$ | 1.5 |
| Ace inhibitors | 16,186 | 1,186 | 2.7 | 0.1 | ${ }^{2} 17.0$ | 1.3 |
| Diuretics | 15,699 | 1,262 | 2.6 | 0.1 | ${ }^{2} 16.3$ | 1.3 |
| All other classes | 392,496 | 6,554 | 63.2 | 0.7 | ${ }^{2} 426.2$ | 17.89 |

[^11]Table 14. Drug mentions of the 10 therapeutic classes of drugs most frequently used at ambulatory care visits by age and race for women 15 years of age and over: United States, average annual 1997-98-Con.

| Therapeutic classes (4-digit) | Number in thousands | Standard error | Percent distribution | Standard error | Rate per 100 women per year ${ }^{1}$ | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race-Continued |  |  |  |  |  |  |
| Black: ${ }^{2}$ |  |  |  |  |  |  |
| Analgesics, nonnarcotic | 5,309 | 546 | 5.6 | 0.4 | ${ }^{2} 42.2$ | 4.6 |
| Nonsteroidal anti-inflammatory drug (NSAID) | 4,874 | 510 | 5.1 | 0.3 | ${ }^{2} 37.4$ | 4.3 |
| Calcium channel blockers | 4,483 | 618 | 4.7 | 0.4 | ${ }^{2} 38.8$ | 5.3 |
| Blood glucose regulators | 4,341 | 580 | 4.6 | 0.4 | ${ }^{2} 37.8$ | 5.0 |
| Ace inhibitors | 3,399 | 369 | 3.6 | 0.3 | ${ }^{2} 30.0$ | 3.3 |
| Diuretics | 3,316 | 502 | 3.5 | 0.3 | ${ }^{2} 29.0$ | 4.5 |
| Estrogens/progestins | 3,208 | 455 | 3.4 | 0.4 | ${ }^{2} 25.7$ | 3.6 |
| Antiasthmatics/bronchodilators | 3,016 | 332 | 3.2 | 0.4 | ${ }^{2} 23.3$ | 2.6 |
| Vitamins/minerals | 2,955 | 353 | 3.1 | 0.4 | ${ }^{2} 20.6$ | 2.5 |
| Antidepressants | 2,803 | 293 | 2.9 | 0.3 | ${ }^{2} 23.0$ | 2.4 |
| All other classes | 57,606 | 5,089 | 60.4 | 1.2 | ${ }^{2} 455.8$ | 42.2 |

 for net underenumeration using the 1990 National Population Adjustment Matrix.
${ }^{2}$ Age-adjusted.

Table 15. Use of ambulatory care by women with nonpregnancy diagnoses and men: United States, average annual 1997-98

| Characteristic | Number of visits per 100 women ${ }^{1}$ | Standard error | Number of visits per 100 men $^{1}$ | Standard error | Rate ratio | Standard error |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total ${ }^{2}$ | 420.7 | 12.4 | 315.4 | 9.8 | $\dagger 1.33$ | 0.06 |
| Age |  |  |  |  |  |  |
| 15-44 years | 310.0 | 10.0 | 198.1 | 6.5 | $\dagger 1.56$ | 0.07 |
| 45-64 years | 472.9 | 15.2 | 353.4 | 11.8 | †1.34 | 0.06 |
| 65 years and over | 711.6 | 27.2 | 654.2 | 26.8 | 1.09 | 0.06 |
| Race ${ }^{2}$ |  |  |  |  |  |  |
| White | 422.7 | 14.3 | 315.3 | 11.0 | $\dagger 1.34$ | 0.07 |
| Black | 438.2 | 29.7 | 329.9 | 21.8 | ${ }^{\dagger} 1.33$ | 0.13 |
| Place of visit ${ }^{2}$ |  |  |  |  |  |  |
| Primary care | 205.2 | 8.6 | 129.8 | 6.3 | ${ }^{\dagger} 1.58$ | 0.10 |
| Surgical care | 74.7 | 3.9 | 69.3 | 3.4 | 1.08 | 0.08 |
| Nonsurgical care | 73.5 | 3.7 | 59.8 | 3.1 | ${ }^{\dagger} 1.23$ | 0.09 |
| Outpatient department | 30.8 | 2.5 | 22.0 | 1.9 | ${ }^{\dagger} 1.40$ | 0.17 |
| Emergency department | 36.5 | 1.3 | 34.6 | 1.3 | 1.05 | 0.06 |
| Major reason for visit ${ }^{2,3}$ |  |  |  |  |  |  |
| Acute condition | 127.7 | 5.0 | 94.6 | 4.0 | ${ }^{\dagger} 1.35$ | 0.08 |
| Chronic condition | 161.5 | 5.5 | 126.7 | 4.5 | $\dagger 1.27$ | 0.06 |
| Pre/post surgery | 32.6 | 1.7 | 26.7 | 1.4 | †1.22 | 0.09 |
| Nonillness | 54.8 | 3.0 | 27.5 | 1.9 | †2.00 | 0.17 |
| Unknown | 7.7 | 0.8 | 5.3 | 0.6 | 1.43 | 0.22 |
| Treatment ${ }^{2}$ |  |  |  |  |  |  |
| No diagnostic/screening services | 86.5 | 4.3 | 72.2 | 3.6 | †1.20 | 0.08 |
| No therapeutic/preventive services | 257.2 | 8.5 | 194.1 | 6.6 | †1.33 | 0.06 |
| Classes of drugs mentioned ${ }^{2}$ (2-digit) |  |  |  |  |  |  |
| Cardiovascular-renal drugs | 96.9 | 5.4 | 96.7 | 6.0 | 1.00 | 0.08 |
| Hormones/hormonal mechanisms | 85.4 | 4.4 | 33.0 | 2.0 | ${ }^{\dagger} 2.59$ | 0.20 |
| Relief of pain . . | 84.5 | 3.5 | 71.9 | 2.9 | ${ }^{+} 1.18$ | 0.07 |
| Respiratory tract | 63.3 | 3.2 | 42.1 | 2.5 | ${ }^{\dagger} 1.50$ | 0.12 |
| Central nervous system | 63.4 | 3.5 | 32.9 | 2.1 | ${ }^{\dagger} 1.93$ | 0.16 |
| Antimicrobial agents | 59.1 | 2.3 | 44.6 | 1.8 | ${ }^{\dagger} 1.32$ | 0.08 |
| Metabolic/nutrients | 45.4 | 2.7 | 25.7 | 1.7 | $\dagger 1.77$ | 0.16 |
| Skin/mucous membrane | 34.8 | 1.9 | 24.5 | 1.3 | †1.42 | 0.11 |
| All others | 132.6 | 5.6 | 99.5 | 4.7 | †1.33 | 0.08 |

[^12]
## Appendix

## Technical Notes

## Estimation

Statistics from the 1997 and 1998 NAMCS and NHAMCS were derived by multistage estimation procedures that produce essentially unbiased estimates. The estimation for NAMCS has four basic components: (a) inflation by reciprocals of the probabilities of selection, (b) adjustment for nonresponse, (c) a ratio adjustment to fixed totals, and (d) weight smoothing. The estimation for NHAMCS has three basic components: (a) inflation by reciprocals of the sampling selection probabilities, (b) adjustment for nonresponse, and (c) population weighting ratio adjustment. Beginning with 1997, the population weighting ratio adjustment for OPD estimates was replaced by an adjustment which controls for effects of rotating hospital sample panels into and out of the sample each year. (The full NHAMCS hospital sample is partitioned into 16 panels that are rotated into the sample over 16 periods of 4 weeks each so that only 13 panels are used in any 1 year.) The sampling weights of some OPD's were permanently trimmed to prevent single OPD's from contributing more than 15 percent of their region's total to OPD visit estimates. For the annual average estimates presented in this report, the annual sampling weights for each survey were divided by 2 .

## 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 also reflects part of the measurement error, but does not measure any systematic biases in the data. The chances are 95 out of 100 that an estimate from the sample differs from the value that would be obtained from a complete census by less than twice the standard error.

The standard errors that were used in tests of significance for this report were approximated 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 (17). 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 percent of the estimate.

## 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 questions, terms, and definitions. Also, pretesting of most data items and survey procedures was performed. Quality control procedures and consistency and edit checks reduced errors in data coding and processing. The error rate (which includes coding and keying errors) ranged from 0.0 to 1.7 for both surveys.

Adjustments for survey nonresponse-Estimates from NAMCS data were adjusted to account for sample physicians who were in scope but did not participate in the study. This adjustment was calculated to minimize the impact of nonresponse on final estimates. The weights of visits for physicians similar to the nonrespondent physicians were inflated to account for visits represented by the nonrespondent physicians. For this purpose, physicians were judged similar if they had the same specialty designation and practiced in the same primary sampling unit (PSU).

NHAMCS data were adjusted to account for nonresponse at the hospital level and at the ED and OPD clinic level. The weights of visits from
hospitals similar to the nonrespondent hospitals were inflated to account for visits represented by the nonrespondent hospitals, where hospitals were judged to be similar if they were in the same region and ownership control group, and had the same metropolitan statistical area (MSA) status (in a MSA versus not in an MSA). The weights of visits from responding ED's and OPD clinics were inflated to account for visits to similar nonrespondent ED's/clinics where ED's/clinics were judged to be similar if they were in the same region and ED/clinic group. For this purpose, there were six OPD clinic groups: (a) general medicine, (b) pediatrics, (c) surgery, (d) OB/GYN, (e) alcohol and/or substance abuse, and (f) other OPD clinics. ED's or OPD's were judged similar if they were in the same ED or clinic group within the hospital.

Adjustments for item nonresponseWeighted item nonresponse rates were 5.0 percent or less for all data items included in this report with these exceptions: Is patient pregnant (19.7 percent), does patient belong to an HMO (13.5 percent), or cause of injury (19.3 percent). Additional information on item nonresponse for data items not included in this report and for item nonresponse rates by setting has been published (6-11).

Missing data for several of the items mentioned in this report were imputed by randomly assigning a value from a Patient Record form with similar characteristics. These items include patient's visit date and year of birth (used to determine age), sex, and race. In the NAMCS, imputations were based on physician specialty, geographic region, and 3-digit ICD-9-CM code for primary diagnosis. For the NHAMCS, imputations were based on ED size, geographic region, "immediacy with which patient should be seen," and 3-digit ICD-9-CM code for primary diagnosis. For OPD data, the grouping used was geographic region, OPD size by clinic, and 3-digit ICD-9-CM code for primary diagnosis.

## 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. The Central Limit 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 are asterisked only if the relative standard error of the estimate exceeds 30 percent.

## Tests of Significance and Rounding

In this report, the determination of statistical inference is based on the two-tailed t -test and the chi-square 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. Chi-square tests were performed using the SUDAAN routine PROC CROSSTAB that takes into account the complex sample designs used in the NAMCS and NHAMCS.

In the tables, estimates of 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 percents calculated from rounded data.

## Population Figures and Rate Calculation

The population figures used in computing annual visit rates by age, sex, and race for this report are shown in table I. The figures represent an average of the U.S. Bureau of the Census estimates of the civilian, noninstitutionalized population as of July 1, 1997, and July 1, 1998. Figures are based on monthly postcensal estimates and are consistent with an unpublished hard-copy national estimates release package PPL-91 (U.S. Population Estimates by Age, Sex, Race and Hispanic Origin: 1990-98) and have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.

## Physician specialty groupings

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 (AOA). 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 based on the physician's specialty. In several tables and charts, office visits are presented using broader categories of primary care, and surgical and nonsurgical specialties. Table II shows the specialties used to define these categories.

## Definition of Terms

Ambulatory patient—An ambulatory patient is an individual seeking personal health services who is not currently admitted to any health care institution on the premises.

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 also records continued medications if the patient was specifically instructed during the visit to continue the medication. Physicians may report up to six medications per visit.

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

## Emergency department-Hospital

facility for the provision of unscheduled outpatient services to patients whose

Table I. Average annual U.S. population estimates used in computing annual visit rates for the National Ambulatory Medical Care Survey and the National Hospital Ambulatory Medical Care Survey, by age, sex, and race: July 1, 1997, and July 1, 1998

| Sex and race | 15 years and over | $\begin{aligned} & 15-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-64 \\ & \text { years } \end{aligned}$ | 65 years and over |
| :---: | :---: | :---: | :---: | :---: |
| All races | 208,284,498 | 120,250,794 | 55,822,124 | 32,211,580 |
| Male | 100,148,261 | 59,580,114 | 26,994,545 | 13,573,602 |
| Female | 108,136,237 | 60,670,680 | 28,827,579 | 18,637,979 |
| White | 173,918,060 | 97,608,345 | 47,649,273 | 28,660,443 |
| Male | 84,440,231 | 48,985,115 | 23,312,372 | 12,142,745 |
| Female | 89,477,829 | 48,623,230 | 24,336,901 | 16,517,698 |
| Black | 24,853,137 | 16,317,247 | 5,852,183 | 2,683,708 |
| Male | 11,164,870 | 7,511,947 | 2,592,851 | 1,060,073 |
| Female | 13,688,267 | 8,805,300 | 3,259,332 | 1,623,635 |

SOURCE: Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures are consistent with the downloadable series, "U.S. Population estimates by age, sex, race, and Hispanic origin: 1980 to 1998 (with extension to September 1, 1999)" available at the Census Internet site: http://ftp.census.gov/population/www/estimates/nat 90s_4.html. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.

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

| Physician specialty group | Physician specialty |
| :---: | :---: |
| Primary care specialties | General/family practice, 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, otolaryngology, pediatric otolaryngology, general surgery, critical care medicine (obstetrics and gynecology), abdominal surgery, cardiovascular surgery, colon and rectal surgery, cardiothoracic surgery, facial plastic surgery, head and neck surgery, hand surgery (plastic surgery), hand surgery (surgery), critical care (neurological surgery), neurological surgery, pediatric surgery (neurology), pediatric surgery, plastic surgery, surgical oncology, thoracic surgery, and transplant surgery. |
| Nonsurgical specialties | Allergy, addiction medicine, addiction psychiatry, allergy and immunology, allergy and immunology/diagnostic laboratory immunology, bronchoesophageal medicine, clinical genetics, clinical biochemical genetics, clinical cytogenetics, clinical molecular genetics, critical care medicine, dermatological immunology/diagnostic laboratory immunology, diabetes, emergency medicine, endocinology, sports medicine (emergency medicine), medical toxicology (emergency medicine), gastroenterology, general preventive medicine, hematology, hepatology, hematology/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/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. |

conditions require immediate care and that is staffed 24 hours a day. If an ED provided emergency services in different areas of the hospital, all of these areas were selected with certainty into the sample. Off-site emergency departments that are open less than 24 hours are included if staffed by the hospital's emergency department.

Hospital—All hospitals with an average length of stay for all patients of less than 30 days (short-stay) or hospitals whose specialty is general (medical or surgical) or children's general. Excludes Federal hospitals, hospital units of institutions, and hospitals with less than six beds staffed for patient use.
Injury-related visit-A visit is considered related to an injury if "yes" was checked on the Patient Record form in response to the question, "Is this visit injury related?" or if any of the following information was provided on the form-place of injury, cause of injury, an injury-related reason for visit, or a nature of injury diagnosis.

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.

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

## Outpatient department-Hospital

 facility where nonurgent and ambulatory medical care is provided under the supervision of a physician.Visit-For NAMCS, a visit is a direct personal exchange between an ambulatory patient and a physician or a staff member working under the physician's supervision, for the purpose of seeking care and rendering personal health services. Excluded from NAMCS are visits where medical care was not provided, such as visits made to drop off specimens, pay bills, make appointments, and walkouts. For NHAMCS, a visit is a direct, personal exchange between a patient and a physician or other health care provider
working under the physician's supervision for the purpose of seeking care and receiving personal health services.





[^0]:    U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

    Centers for Disease Control and Prevention
    National Center for Health Statistics

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[^2]:    'Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix
    ${ }^{2}$ Age-adjusted.

[^3]:    Category not applicable
    ${ }^{1}$ Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
    ${ }^{2}$ Age-adjusted.

[^4]:    See footnotes at end of table.

[^5]:    See footnotes at end of table.

[^6]:    . . Category not applicable
     for net underenumeration using the 1990 National Population Adjustment Matrix. Rates are age-adjusted.

[^7]:    * Figure does not meet standard of reliability or precision.

[^8]:    Category not applicable.
    ${ }^{1}$ 'Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
    ${ }^{2}$ Age-adjusted.

[^9]:    See footnotes at end of table.

[^10]:    ${ }^{1}$ Frequency of mention combines single-ingredient agents with mentions of the agent as an ingredient in a combination drug.

[^11]:    See footnotes at end of table.

[^12]:    ${ }^{\dagger}$ Rate ratio is significant at the $95 \%$ confidence level.
    ${ }^{1}$ Based on U.S. Bureau of the Census monthly postcensal estimates of the civilian noninstitutionalized population of the United States as of July 1, 1997, and July 1, 1998. Figures have been adjusted for net underenumeration using the 1990 National Population Adjustment Matrix.
    ${ }^{2}$ Age-adjusted.
    ${ }^{3}$ Visits to emergency departments are not included in this section.

