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444 Notice to Readers

First Report of AIDS

Twenty years ago, on June 5, 1981, MMWR published a report of five cases of Pneumocystis carinii pneumonia (PCP) among previously healthy young men in Los Angeles (1). All of the men were described as "homosexuals"; two had died. Local clinicians and the Epidemic Intelligence Service (EIS) Officer stationed at the Los Angeles County Department of Public Health, prepared the report and submitted it for MMWR publication in early May 1981. Before publication, MMWR editorial staff sent the submission to CDC experts in parasitic and sexually transmitted diseases. The editorial note that accompanied the published report stated that the case histories suggested a "cellular-immune dysfunction related to a common exposure" and a "disease acquired through sexual contact." The report prompted additional case reports from New York City, San Francisco, and other cities. At about the same time, CDC's investigation drug unit, the sole distributor of pentamidine, the therapy for PCP, began to receive requests for the drug from physicians also to treat young men. In June 1981, CDC developed an investigative team to identify risk factors and to develop a case definition for national surveillance. Within 18 months, epidemiologists conducted studies and prepared MMWR reports that identified all of the major risks factors for acquired immnodeficiency syndrome (AIDS). In March 1983, CDC issued recommendations for prevention of sexual, drug-related, and occupational transmission based on these early epidemiologic studies and before the cause of the new, unexplained illness was known.

MMWR has published more than 400 reports about human immunodeficiency virus (HIV) and AIDS and remains a primary source of information about the epidemiology, surveillance, prevention, care, and treatment of HIV and AIDS. This anniversary issue provides new reports on the epidemiologic features and impact of HIV/AIDS on communities in the United States and in other countries. A compilation of notable *MMWR* reports on HIV and AIDS is available at http://www.cdc.gov/mmwr/hiv_aids20.html. A video that includes interviews with participants in these first AIDS investigations and reports and a video summary of each report in this issue is available at http://www.cdc.gov/mmwr.

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1. CDC. Pneumocystis pneumonia — Los Angeles. MMWR 1981;30:250-2.

HIV and AIDS — United States, 1981–2000

The acquired immunodeficiency syndrome (AIDS) epidemic has had a substantial impact on the health and economy of many nations (1). Since the first AIDS cases were reported in the United States in June 1981, the number of cases and deaths among persons with AIDS increased rapidly during the 1980s followed by substantial declines in new cases and deaths in the late 1990s. This report describes the changes in the characteristics of persons with AIDS since 1981. The greatest impact of the epidemic is among men who have sex with men (MSM) and among racial/ethnic minorities, with increases in the number of cases among women and of cases attributed to heterosexual transmission. The number of persons living with AIDS has increased as deaths have declined. Controlling the epidemic requires sustained prevention programs in all of these affected communities, particularly programs targeting MSM, women, and injection drug users.

CDC analyzed reported AIDS cases from 1981 through 2000 from the 50 states, District of Columbia, and U.S. territories. Proportions by sex, age, race/ethnicity, region, and vital status (living or deceased) were computed over four time periods corresponding to changes in the AIDS case definition and the introduction of effective combination antiretroviral therapy (Table 1). Trends in estimated AIDS diagnoses and deaths of persons with AIDS were adjusted for reporting delays based on the number of cases reported to CDC through June 2000, and for anticipated reclassification of cases originally reported without human immunodeficiency virus (HIV) infection risk information. Estimated AIDS prevalence was calculated as the cumulative incidence of AIDS minus cumulative deaths adjusted for reporting delays (2).

As of December 31, 2000, 774,467 persons had been reported with AIDS in the United States; 448,060 of these had died; 3542 persons had unknown vital status. The number of persons living with AIDS (322,865) is the highest ever reported. Of these, 79% were men, 61% were black or Hispanic, and 41% were infected through male-to-male sex. Of the AIDS cases, approximately one third were reported during 1981–1992, 1993–1995, and 1996–2000 (Table 1).

AIDS incidence increased rapidly through the 1980s, peaked in the early 1990s, and then declined (Figure 1). The peak of new diagnoses was associated with the expansion of the AIDS surveillance case definition in 1993 (2). As of 1996, sharp declines were reported in AIDS incidence and deaths. From 1998 through June 2000, AIDS incidence and deaths leveled off and AIDS prevalence continued to increase. Throughout the epidemic, approximately 85% of persons diagnosed with AIDS were aged 20–49 years (Table 1).

In the early 1980s, most AIDS cases occurred among whites. However, cases among blacks increased steadily and by 1996, more cases occurred among blacks than any other racial/ethnic population. Cases among Hispanics, Asians/Pacific Islanders, and American Indians/Alaska Natives have increased also (Table 1).

Male-to-male sex has been the most common mode of exposure among persons reported with AIDS (46%), followed by injection drug use (25%) and heterosexual contact (11%). The incidence of AIDS increased rapidly in all three of these risk categories through the mid-1990s; however, since 1996, declines in new AIDS cases have been higher among MSM and injection drug users than among persons exposed through heterosexual contact (Figure 2).

HIV and AIDS in the United States — Continued

TABLE 1. Number and percentage of persons with AIDS, by selected characteristics and period of report — United States, 1981–2000

	1981-	-1987	1988	-1992	1993	-1995	1996	-2000
Characteristic	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Sex								
Male	46,251	(92.0)	177,132	(87.5)	211,909	(82.4)	204,730	(77.4)
Female	4,029	(8.0)	25,387	(12.5)	45,353	(17.6)	59,672	(22.6)
Age group (yrs)								
0–4	649	(1.3)	2,763	(1.4)	2,105	(0.8)	1,355	(0.5)
5–12	101	(0.2)	667	(0.3)	650	(0.3)	618	(0.2)
13–19	199	(0.4)	759	(0.4)	1,381	(0.5)	1,722	(0.7)
20-29	10,523	(20.9)	38,507	(19.0)	43,445	(16.9)	36,252	(13.7)
30-39	23,239	(46.2)	92,178	(45.5)	116,335	(45.2)	114,072	(43.1)
40-49	10,472	(20.8)	46,922	(23.2)	67,475	(26.2)	78,032	(29.5)
50-59	3,684	(7.3)	14,494	(7.2)	19,153	(7.4)	23,980	(9.1)
≥60	1,413	(2.8)	6,230	(3.1)	6,718	(2.6)	8,373	(3.2)
Race/Ethnicity White,								
non-Hispanic Black,	30,033	(59.7)	102,130	(50.4)	109,101	(42.4)	88,896	(34.0)
non-Hispanic	12,796	(25.5)	63,319	(31.2)	97,742	(38.0)	118,665	(44.9)
Hispanic*	7,044	(14.0)	35,116	(17.3)	47,442	(18.4)	52,092	(19.7)
Asian/Pacific	.,	(00,	(. , ,	.,,=	(1011)	02,002	(1017)
Islander	312	(0.6)	1,342	(0.7)	1,927	(0.8)	2,147	(0.8)
American Indiar		(,	.,	(,	.,	(,	_,	(,
Alaska Native	68	(0.1)	437	(0.2)	870	(0.3)	962	(0.4)
Region [†]								
Northeast	19,541	(38.9)	62,102	(30.7)	78,000	(30.3)	81,466	(30.8)
North Central	3,772	(7.5)	20,416	(10.1)	25,778	(10.0)	25,532	(9.7)
South	12,933	(25.7)	65,754	(32.5)	89,559	(34.8)	102,576	(38.8)
West	13,502	(26.9)	46,303	(22.9)	55,586	(21.6)	45,574	(17.2)
U.S. territories	524	(1.0)	7,883	(3.9)	8,812	(3.2)	8,829	(3.3)
Vital status								
Living	2,103	(4.2)	20,572	(10.2)	96,998	(37.7)	203,192	(76.9)
Deceased	47,993	(95.5)	181,212	(89.5)	159,048	(61.8)	59,807	(22.6)
Total⁵	50,280	(6.5)	202,520	(26.2)	257,262	(33.2)	264,405	(34.1)

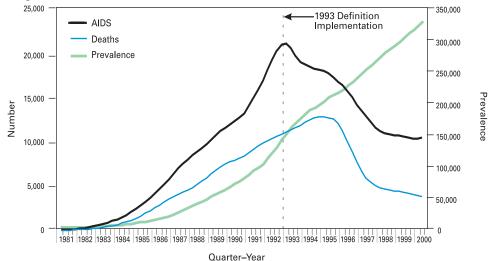
^{*} Persons of Hispanic origin may be of any race.

[†] Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; North Central=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; West=Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Includes persons for whom sex, age, race/ethnicity, region, or vital status are missing.

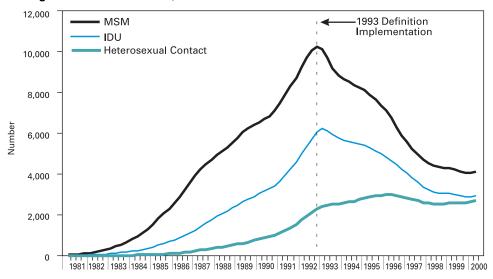
HIV and AIDS in the United States — Continued

FIGURE 1. Estimated AIDS incidence*, deaths, and prevalence, by quarter-year of diagnosis/death — United States, 1981–2000



* Adjusted for reporting delays.

FIGURE 2. Number of AIDS cases among men who have sex with men (MSM), injection drug users (IDU), and persons exposed through heterosexual contact, by quarter-year of diagnosis — United States, 1981–2000



HIV and AIDS in the United States - Continued

Nearly all transmission of HIV through transfusion of blood or blood products occurred before screening of the blood supply for HIV antibody was initiated in 1985 (3). The number of persons reported with AIDS who were exposed through blood transfusions was 284 in 2000, down from a peak of 1098 in 1993. The number of perinatally acquired AIDS cases peaked in 1992 (901 cases), followed by a sharp decline through December 1999. In 1999, 144 cases of perinatally acquired AIDS were diagnosed.

Reported by: Surveillance Br, Div of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention, CDC.

Editorial Note: AIDS in the United States remains primarily an epidemic affecting MSM and racial/ethnic minorities. A new generation of MSM has replaced those who benefitted from early prevention strategies, and minority MSM have emerged as the population most affected by HIV. Socioeconomic factors (e.g., homophobia, high rates of poverty and unemployment, and lack of access to health care) are associated with high rates of HIV risk behaviors among minority MSM and are barriers to accessing HIV testing, diagnosis, and treatment (4). Minority MSM may not identify themselves as homosexual or bisexual because of the stigma attached to these activities and may be difficult to reach with HIV prevention messages. In addition, the proportion of AIDS cases attributed to heterosexual contact and among women is substantially greater than earlier in the epidemic.

Several public health successes have been achieved during the AIDS epidemic. Disease-monitoring systems were established following the first reports in 1981 (5). Data from these systems helped determine how AIDS was transmitted and provided a basis for the Public Health Service (PHS) to make prevention recommendations. The licensure of a blood test to screen the nation's blood supply and donor and self-deferral measures dramatically reduced the incidence of transfusion-associated HIV infections (6). Less than one in 450,000–660,000 screened blood donations are estimated to be contaminated with HIV (7).

In 1985, the first federal resources dedicated to HIV prevention were made available to all state and local health departments nationwide. In 1987, a national effort to educate the public about HIV and AIDS was launched and CDC created a comprehensive AIDS information resource, the CDC National AIDS Hotline and National AIDS Information Clearinghouse. Comprehensive school-based HIV education to inform and educate young persons began in 1987, and funding for national, regional, and community-based organizations began in 1988.

The first research on effective behavior interventions to reduce transmission of HIV among sex partners and injection drug users began in the early 1980s. Behavior interventions, including school-based programs, peer-to-peer interventions, strategies that limit needle sharing, strategies that use parent-to-child communication, client-centered counseling, and personalized risk-reduction strategies, are effective in promoting healthy behaviors that are protective for HIV (8).

PHS released guidelines in 1994 and 1995 for routinely counseling and voluntarily testing pregnant women for HIV and for offering zidovudine to infected women and their infants (9). Since this intervention, mother-to-child HIV transmission rates have decreased dramatically. During 1985–1999, AIDS cases among children declined 81%.

As a result of these and other HIV prevention efforts and increases in societal awareness of and response to the AIDS epidemic, new infections in the United States, which had risen rapidly to a peak of 150,000 per year in the mid-1980s, declined to an estimated

HIV and AIDS in the United States - Continued

40,000 per year since 1992. With the advent of highly active antiretroviral therapy in the mid-1990s, the number of new AIDS cases and deaths declined dramatically and then stabilized in the United States and several other industrialized nations.

Despite the decline in HIV-related disease and death in the United States, major gaps exist in the tools needed to address HIV prevention. The development of an HIV vaccine is important to control the global epidemic. Development of a microbicide that is safe and effective in reducing HIV transmission through sexual intercourse may be key to controlling the epidemic among women. New behavior interventions, particularly targeting minority MSM, are needed.

Political, financial, and social barriers have often kept the most effective prevention and treatment strategies from reaching those at highest risk. In addition, HIV-related stigma continues to hinder prevention, testing, and treatment. Expanding HIV prevention programs remains an urgent priority in the United States. Reaching populations at risk to ensure early diagnosis and ensuring sustained access to preventive and treatment services for all at risk and HIV-infected persons can have a major impact on the HIV and AIDS epidemic (10).

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The Global HIV and AIDS Epidemic, 2001

Human immunodeficiency virus (HIV) infection and acquired immunodeficiency syndrome (AIDS) are pandemic and pose one of the greatest challenges to global public health. As a bloodborne and sexually transmitted infection, HIV has variable patterns of transmission and impact among world regions and has disproportionately affected disadvantaged or marginalized persons such as commercial sex workers, injection drug users, men who have sex with men (MSM), and persons living in poverty. HIV infection

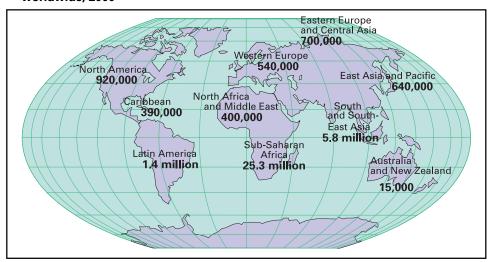
has caused approximately 20 million deaths; an estimated 36 million persons are infected (Figure 1). On the basis of data from the Joint United Nations Program on AIDS (UNAIDS) and other sources, this report summarizes epidemiologic trends, highlights several HIV and AIDS prevention milestones, and describes some prevention activities for the coming decade (1–4).

Sub-Saharan Africa (SSA)

SSA* is the region of the world most severely affected by HIV and AIDS. Uganda, Kenya, and Tanzania were among the countries where the HIV epidemic was first recognized during the early 1980s. In 2000, an estimated 25.3 million persons in SSA were infected with HIV, and the average national prevalence of HIV infection among persons aged 15–49 years was 8.8%. Approximately four million new infections occurred during 2000. Approximately 10% of persons aged 15–49 years are infected in 16 countries, including seven in southern and eastern Africa, where approximately 20% are infected. In Botswana, the country with the highest prevalence, 36% of the adult population is infected with HIV (Figure 2).

Despite these trends, intensive and aggressive prevention programs for behavior change, condom promotion, voluntary HIV counseling and testing, and blood transfusion safety have lowered prevalence or slowed HIV transmission in several SSA countries. For example, in Uganda during 1990–2000, overall adult HIV prevalence declined from

FIGURE 1. Number* of adults and children estimated to be infected with HIV and AIDS — worldwide, 2000

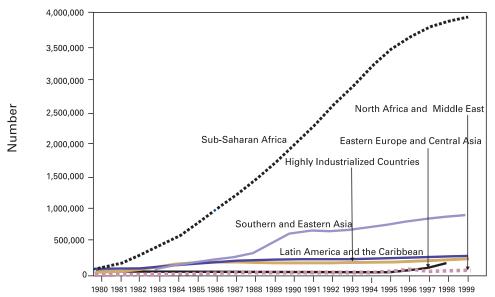


^{*} n=36.1 million.

Source: Jointed United Nations Program on AIDS.

^{*}Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Congo, Cotê d'Ivoire, Democratic Republic of Congo, Djibouti, Eritrea, Ethiopia, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Malawi, Mali, Mauritania, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, South Africa, Swaziland, Tanzania, Togo, Sao Tome-Principe, Uganda, Zambia, and Zimbabwe.

FIGURE 2. Estimated number of new HIV infections, by region and year — worldwide, 1980–1999



Year Source: Jointed United Nations Program on AIDS.

14% to 8%. In Masaka, Uganda, HIV prevalence among females aged 20–24 years decreased from 20.9% during 1989–1990 to 13.8% during 1996–1997 (5). Also, in Lusaka, Zambia, which had an early and severe epidemic, HIV prevalence declined among females aged 15–19 years attending prenatal clinics from 27% in 1993 to 17% in 1998. In West Africa, Senegal has maintained a prevalence of approximately 2%; prevention efforts have included regulating commercial sex, intensive condom promotion, treatment of sexually transmitted diseases (STDs), and community mobilization.

Asia

The epidemic continues to spread in the world's most populous areas, where the infrastructure for an effective response is underdeveloped. In China, HIV prevalence was as high as 82% among injection drug users and 6% in commercial sex workers during 1998–1999. A sustained increase also occurred in all reported STDs among males and females during 1989–1998. In India, the estimated HIV infection rate among persons aged 15–49 years is 0.7%. As of mid-1998, an estimated 3.5 million persons were infected with HIV. An exception to countries with increasing prevalence is Thailand, where the epidemic began in the mid-1980s among injection drug users and commercial sex workers and their clients and spread rapidly to the wider population through heterosexual transmission. In response, health officials developed HIV and AIDS surveillance systems and mounted a sustained and effective response, including the "100% condom use" campaign for commercial sex. The resulting decline in STD and HIV transmission was reflected in a decrease in STD rates and HIV prevalence in military recruits and women attending prenatal clinics.

Eastern Europe and Central Asia

Eastern Europe has had recent and rapid growth of HIV infection among injection drug users. By January 1999, approximately 10,000 HIV cases had been reported in the Russian Federation. By December 2000, the cumulative total increased to 70,000, and HIV infection among injection drug users was reported from 82 of the 89 regions in the Russian Federation. Ukraine was the country most affected in Eastern Europe and Central Asia, where newly reported infections increased from 47 cases per year during 1992–1994 to approximately 15,000 cases in 1997. Ukraine accounted for 90% of all AIDS cases reported in the region in 1998 and 1999. HIV probably will spread further in the region as a result of the large number of injection drug users, increasing rates of STDs, the growing commercial sex industry, and socioeconomic transitions.

United States and Western Europe

In Western Europe and the United States, deaths attributed to HIV have declined substantially since the introduction of highly active antiretroviral therapies. However, reported increases in STDs among MSM and other indicators of increased risk-taking behavior may be leading to an increase in HIV transmission.

Latin America and the Caribbean

In Latin America and the Caribbean, the leading modes of transmission include sex between men, sex between men and women, and injection drug use. By December 2000, an estimated 1.4 million adults and children were infected with HIV/AIDS in the region compared with 1.3 million in 1999. Barbados, Belize, Dominican Republic, Guyana, Haiti, and Suriname have an HIV prevalence of approximately 1%. The Caribbean, with an adult prevalence of 2.1%, is the second most affected world region. In Brazil, reported HIV-related deaths have declined from approximately 25 per 100,000 in 1995 to approximately 15 per 100,000 in 1999, in large part because of the government policy of providing universal, free access to antiretroviral therapies (6).

Reported by: Global AIDS Program, National Center for HIV, STD, and TB Prevention, CDC.

Editorial Note: HIV and AIDS is the leading cause of death in Africa and the fourth leading cause of death worldwide. In the countries most affected in Africa, life expectancy has declined by 10 years and infant death rates have doubled. In countries with the highest prevalence, such as Botswana, South Africa, and Zimbabwe, the full impact of the epidemic has not been felt because those infected recently have not developed symptoms. Equally important is the effect of HIV deaths on families, social systems, and national growth and development. Young adults who contribute substantially to countries' gross domestic product are most commonly affected. In families, loss of one or both parents to HIV can lead to loss of income, cessation of children's education, increased child labor, and disruption of family and social support systems. For example, in Zambia, a shortage of school teachers has occurred because more teachers are dying of AIDS than can be trained to replace them.

Considerable heterogeneity of rates exist in HIV-infected countries throughout the world, and the differences have been attributed to risk factors associated with the spread of HIV and AIDS. They include migration, economic instability, drug use, STDs, low levels of literacy, and poverty. These are formidable challenges to implementing effective prevention programs (4). Although the earliest epidemiologic studies described the modes of transmission of HIV and AIDS and provided insights into the types of interventions needed to prevent transmission, this understanding has been difficult to translate into

effective interventions worldwide. The HIV epidemic has challenged public health agencies to develop new and often controversial prevention programs that contradict established practices and social norms.

Despite these challenges, even countries with modest resources have demonstrated that the epidemic can be stabilized or reversed. In these countries, successful programs have included strong, high-level political leadership for HIV prevention, a national program plan, adequate funding, and strong community involvement. Effective and feasible interventions for HIV prevention and control are available. Quality testing and guidelines for blood use can promote a safer blood supply. Widespread condom promotion can reduce HIV seroprevalance in high-risk populations, and education programs for young persons can result in decreased risk-taking behavior. Increasing access to drug treatment and providing education about and increasing access to clean syringes can reduce infection risk in drug using populations. Prophylaxis with co-trimoxazole can prevent certain opportunistic infections and reduce the number of HIV-related deaths. Administering antiviral agents, such as niverapine or short-course zidovudine, and advice to women on breastfeeding, can substantially reduce mother-to-infant transmission (7). Improving treatment for STDs can slow HIV infection rates (8). When effective STD treatment programs continue to be compromised by weak infrastructure, important opportunities for HIV prevention are lost. Efforts are needed to strengthen STD services and to integrate these with HIV prevention and control programs.

The social stigma associated with HIV infection in many cultures combined with difficulties in providing treatment or services for infected persons are major barriers to expanding voluntary counseling and testing for HIV. Persons who may benefit from knowing their serostatus often reject counseling and testing because they fear the consequences of disclosure of their HIV status. Other disincentives are the lack of resources for care and treatment and the sense that little is gained from learning that one is infected with HIV. Prevention programs must be accompanied by efforts to improve the care of HIV-infected persons. Isoniazid prophylaxis for TB (9) and other low-cost interventions should be incorporated into prevention programs (10).

The most effective intervention therapy for persons infected with HIV is the use of a combination of antiretroviral agents. However, the high cost of these regimens and the infrastructure needed to monitor their use have put these medications beyond the reach of most HIV-infected persons. Although the price of these drugs has fallen, making treatment a possibility for a greater number of persons, infrastructures to support the effective use of these medications remain inadequate and need strengthening. Given the needs for both prevention and treatment, public health officials and international donors will need to determine the best mix of drug treatment and prevention programs.

Globally, the HIV epidemic has intersected with other, underlying public health problems, most notably tuberculosis (TB). TB remains the principal cause of death in persons with HIV infection worldwide. National TB rates have escalated over the past decade in SSA and South-East Asia. Since the mid-1980s, in many African countries with well-organized programs, annual TB notification rates have increased fourfold, reaching peaks of more than 400 cases per 100,000 population. In some countries, up to 70% of patients with sputum smear-positive pulmonary TB are HIV-infected. To the extent possible, integration of HIV and TB prevention programs should be a priority in these countries.

The increase in HIV infection and AIDS deaths has led to increases in aid from governments and national and international organizations and foundations. Since 1999, the U.S.

government increased its financial support to HIV/AIDS prevention and care programs in affected countries. For fiscal year 2001, this totaled \$457.5 million. Participating agencies include the U.S. Agency for International Development, the U.S. Department of Health and Human Services (including CDC, and the Health Resources and Services Administration), the Department of Defense, the Department of Labor, and the Department of Commerce. The National Institutes of Health recently launched the Comprehensive International Program for Research on AIDS (CIPRA) to assist developing countries with research agendas relevant to their populations and to enhance infrastructure. CDC established the Global AIDS Program (GAP) to implement international HIV prevention efforts in collaboration with other federal agencies. The program emphasizes sustaining intervention programs for primary prevention of HIV infection, infrastructure development and laboratory support, and home- and community-based care for persons with HIV infection. CDC is supporting these activities in 24 countries in partnership with other U.S. agencies, national ministries of health, UNAIDS, and other international agencies.

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HIV Incidence Among Young Men Who Have Sex With Men — Seven U.S. Cities, 1994–2000

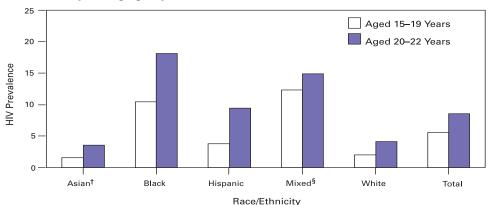
Twenty years after the first report on human immunodeficiency virus (HIV) infection in the United States, studies of sexually transmitted diseases (STDs) and sexual behaviors suggest a resurgent HIV epidemic among men who have sex with men (MSM) (1,2). However, few recent studies have measured HIV incidence in this population (3–7). To determine HIV incidence among young MSM, CDC analyzed data from the Young Men's Survey (YMS), a study that found a high prevalence of HIV and associated risks among MSM aged 15–22 years sampled in seven U.S. cities (8). This report confirms high HIV incidence among these young men.

YMS Phase I was a cross-sectional, multisite, venue-based sample survey of men aged 15-22 years who attended public venues where young MSM congregate (e.g., urban shopping blocks, dance clubs, bars, and young gay organizations) (8). During the survey start-up in each city, formative research was conducted to identify all venues frequented by young MSM, and the days and times when young men frequented these venues. A three-stage sampling plan was used to randomly select venues from the sampling frame of venues and then to randomly select times. Sampled venues and times were then scheduled for the third stage of sampling in which young men were sampled at 194 venues in Baltimore, Maryland; Dallas, Texas; Los Angeles, California; Miami, Florida; New York, New York; San Francisco, California; and Seattle, Washington. Eligible men (i.e., local residents aged 15-22 years) were recruited for the survey. Participants were asked about their risk behaviors and demographics, and counseled about and tested for HIV; blood specimens were tested anonymously for HIV. Participants were scheduled to return in 2 weeks for test results, posttest counseling, and service referrals. Duplicate enrollees were removed from the database by various screening methods, including the Miragen Assay, which profiles antibodies. Because no association was found between frequency of venue attendance and HIV prevalence, the data were not weighted according to venue attendance.

An enzyme immunoassay was used to screen blood specimens for HIV antibody. Repeatedly reactive specimens were confirmed by Western blot or indirect immunofluorescence. To estimate HIV incidence, a serologic testing algorithm was used to determine recent HIV seroconversion (STARHS) (9). HIV-positive specimens were tested with a sensitive HIV-1 whole viral lysate EIA (3A11) (Abbott, Abbott Park, Illinois) that detects infection approximately 30 days after transmission. Specimens that were 3A11-reactive were retested using the 3A11-LS (less-sensitive), which detects HIV infection approximately 140 days after the 3A11 (95% confidence interval [CI]=125–156 days). A specimen that was 3A11-reactive but 3A11-LS-nonreactive was categorized as a recent infection. Incidence was calculated using the number of persons with recent infections as the numerator and the number of persons with recent infections plus the number of persons who were HIV-negative as the denominator. Incidence estimates were adjusted for HIV-positive specimens that were not tested by STARHS. Incidence was annualized to units of percent per year. All data were analyzed using SAS version 6.12.

In the seven cities, 3492 young MSM enrolled (range for the seven cities: 357–702 MSM) (8). The enrollment rate was 62% (range: 51%–75%). The prevalence of HIV infection was 7.2% (range: 2.2%–12.1%), increased with age, and was higher among blacks, Hispanics, and men of mixed race than among whites or Asians/Pacific Islanders (Figure 1). These findings and the high prevalence of unprotected anal sex during the

FIGURE 1. HIV prevalence among men aged 15–22 years who have sex with men, by race/ethnicity and age group — seven U.S. cities,* 1994–1998



*Baltimore, Maryland; Dallas, Texas; Los Angeles, California; Miami, Florida; New York City, New York; San Francisco, California; and Seattle, Washington.

preceding 6 months (41%; range: 33%–49%) suggested that HIV incidence was high among these young men.

Of the 3449 young MSM tested, 249 were HIV-positive. Of the 249 HIV-positive specimens, 224 were tested by STARHS; 29 met the criteria for recent infection (Table 1). HIV incidence was 2.6% overall, 3.5% among persons aged 20–22 years, 4.0% among blacks, and 5.4% among men of mixed race. Of the 29 persons with recent infections, 14 were from New York City. HIV incidence was similar among homosexual and bisexual men. Recent risk behaviors associated with high HIV incidence were having ≥5 male sex partners during the preceding 6 months, having unprotected anal sex with men, or having injected drugs.

During 1998–2000, YMS Phase II was conducted to sample MSM aged 23–29 years in six of the seven cities (excluding San Francisco). Data are preliminary. Of the 2942 young MSM, 1409 (48%) were white, 651 (22%) were Hispanic, and 497 (17%) were black. Of these, 373 (13%) were HIV-positive; HIV prevalence was 7% among whites, 14% among Hispanics, and 32% among blacks. Of the 373 HIV-positive specimens, 290 were STARHS-tested; 38 were recent infections. Overall incidence was 4.4% (95% CI=2.9%–6.7%); HIV incidence was 2.5% among whites (95% CI=1.4%–4.6%), 3.5% among Hispanics (95% CI=1.4%–8.6%), and 14.7% among blacks (95% CI=7.9%–27.1%).

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[†] Asian indicates Asian/Pacific Islander.

[§] From multiple racial backgrounds.

TABLE 1. HIV prevalence* and incidence[†] among men aged 15–22 years who have sex with men — seven cities[§], United States, 1994–1998

Characteristic	No.¹	HIV prevalence (%)	No. with recent HIV infection	HIV incidence (% per year)	(95% CI**)
Age group (yrs)	110.	(70)	modion	(70 por your)	(00 /0 01 /
15–19	1542	(5.6)	8	1.6	(0.5- 3.7)
20–22	1906	(8.6)	21	3.5	(1.8– 6.3)
	1300	(0.0)	21	5.5	(1.0- 0.3)
Race/Ethnicity					
American Indian/ Alaska Native	45	(6.7)	0	0.0	(0.0–34.7)
Asian/Pacific Islander	203	(3.0)	0	0.0	(0.0– 6.6)
Black	587	(14.1)	7	4.0	(1.3– 9.9)
Hispanic	1027	(6.9)	6	1.8	(0.5– 4.8)
Mixed	335	(13.4)	6	5.4	(1.5–14.8)
White	1246	(3.3)	10	2.4	(1.0– 5.3)
	1240	(3.3)	10	2.4	(1.0- 5.3)
City	050	(0.5)		2.0	(0.00.0)
Baltimore	352	(8.5)	1	0.8	(0.0- 6.0)
Dallas	523	(6.5)	5	3.3	(0.9- 8.9)
Los Angeles	506	(8.3)	4	2.9	(0.7- 8.4)
Miami	484	(5.8)	1	0.7	(0.0- 4.5)
New York	530	(12.1)	14	7.6	(3.3–15.8)
San Francisco	690	(6.2)	3	1.2	(0.2- 4.5)
Seattle	364	(2.2)	1	0.7	(0.0-5.3)
Sexual identity ^{††}					
Homosexual	2240	(7.5)	19	2.6	(1.3– 4.8)
Bisexual	1025	(6.5)	7	2.2	(0.7-5.4)
Heterosexual	132	(3.8)	2	4.0	(0.3–19.1)
Transgender	42	(14.3)	1	7.1	(0.1–52.9)
Sex partners during preceding 6 months					
Men	2522	(7.8)	19	2.4	(1.2-4.3)
Men and women	589	(6.6)	8	4.3	(1.5-10.1)
Women	111	(1.8)	0	0.0	(0.0 - 9.8)
None	227	(5.3)	2	2.4	(0.2-11.3)
No. male partners during preceding 6 months					
≥5	791	(9.7)	10	4.0	(1.5- 8.8)
1–4	2320	(6.8)	17	2.3	(1.1- 4.3)
None	338	(4.1)	2	1.6	(0.1- 7.5)
Reported risk behaviors					
during preceding 6 mont	hs				
Unprotected anal	1408	(8.5)	17	3.8	(1.8- 7.2)
sex with men					
Sex while "high"					
on alcohol/drugs	1756	(7.6)	17	3.0	(1.4- 5.7)
Injected drugs	120	(19.2)	2	6.0	(0.5-26.4)
Total	3449	(7.2)	29	2.6	(1.5– 4.4)

^{*} Enzyme immunoassay could not be conducted on 43 blood specimens because of insufficient volumes.

[†] Of the 249 HIV-positive specimens, 224 had quantity sufficient for a serologic testing algorithm for determining recent HIV seroconversion.

Baltimore, Maryland; Dallas, Texas; Los Angeles, California; Miami, Florida; New York, New York; San Francisco, California; and Seattle, Washington.

San Francisco, California; and Seattle, Washington.

Numbers may not add to total because, for some characteristics, a possible response category was "don't know" or "refuse." For "reported risk behaviors," only the subsamples with these risk behaviors are shown.

^{**} Confidence interval.

^{**} Participants were asked whether they considered their sexual identity to be straight (heterosexual), bisexual/gay (homosexual), or transgender.

Editorial Note: The findings in this report document a high incidence of HIV among a sample of young MSM, particularly blacks in their 20s. The overall incidence was comparable to that reported in recent studies of adult MSM (3–7). In the 20th year of the HIV epidemic, young MSM in these cities continue to be at high risk for HIV infection.

This is the first published report using STARHS to provide incidence estimates in community-recruited sample surveys. In this study, HIV incidence was high among MSM in their 20s and young racial/ethnic minority MSM, especially blacks. Because there were no earlier incidence studies of MSM aged 15–22 years, it is unknown whether HIV transmission among very young MSM is increasing. However, the preliminary high incidence data among MSM aged 23–29 years in YMS Phase II, in conjunction with other recent findings on STDs and sexual behaviors (1,2), are of concern and may suggest a resurgent MSM epidemic among young MSM in the late 1990s.

The findings in this report are subject to at least three limitations. First, although enrollment rates were high, sampling was conducted through outreach at venues, and it is not known whether young men with recent high-risk behaviors were more likely to enroll. Second, young men were sampled only at randomly selected venues, and incidence may have been lower if young MSM who did not go to venues or did not live in cities had been sampled. Third, data for YMS Phase II are preliminary, particularly because not all specimens were STARHS-tested and the final results may change slightly.

Young MSM need to be targeted with early and sustained prevention efforts specifically tailored to their needs. In a recent health bulletin sent to HIV prevention providers, CDC encouraged local areas to assess their current situation and services and, if necessary, develop new prevention messages, improve the quality of STD clinical services for MSM, expand prevention and outreach for HIV-positive MSM, and address the factors that may be contributing to high incidence such as the impact of racism and homophobia on risk behavior (10). The high HIV incidence described in this report calls for a vigorous public health and community response to prevent HIV.

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Notice to Readers

The 20th Year of AIDS: A Time to Re-Energize Prevention

Since the first acquired immunodeficiency syndrome (AIDS) cases were reported in 1981, human immunodeficiency virus (HIV) has caused approximately 22 million deaths worldwide. In the United States, approximately 400,000 persons have died, and approximately one million have been infected. However, numerous persons have avoided infection through prevention efforts, and many lives have been prolonged through advances in treatment.

The 20th year of AIDS is a milestone in the fight against HIV/AIDS; it is a time to remember persons who have become ill and died from the disease and to reflect on the progress made in both HIV prevention and treatment. A way to commemorate those persons who have died from AIDS is to accelerate efforts to stop HIV transmission. Accordingly, at this milestone, CDC has outlined a new strategy to reduce further HIV infection.

The response to HIV/AIDS in the United States has demonstrated the necessity of collaboration between health officials and affected communities. Since the mid-to-late 1980s, CDC has worked with all sectors of society (e.g., state and local public health, media, business, religious, medical, and academic and community-based organizations) to inform the public about AIDS and implement prevention efforts. These efforts evolved from public information campaigns to highly targeted community-based programs using proven behavior interventions. During this time, U.S. infection rates declined dramatically.

New strategies are needed to maintain and accelerate progress in HIV/AIDS prevention that sustain and reinvigorate communities most severely affected during the early years of the epidemic, particularly men who have sex with men and to meet the evolving needs of an increasingly diverse epidemic. Efforts also must be tailored to equip racial/ethnic minority communities with the skills and knowledge to prevent HIV infection.

Highly active antiretroviral therapies have improved the length and quality of life for HIV-infected persons. However, some infected persons on treatment assume that they are not infectious and engage in behavior that increases risk for transmission (1). In addition, some persons may have decreased concern about infection because of advances in treatment. Increases in risk behaviors and rates of sexually transmitted diseases among men who have sex with men have been reported from multiple cities, which may herald an increase in HIV transmission.

CDC begins the third decade of HIV/AIDS with a new strategic plan designed to reduce annual infections by half within 5 years. This three-part plan includes: 1) intensifying efforts to help all infected persons learn their HIV status; 2) establishing new prevention programs to help HIV-infected persons establish and maintain safer behaviors, combined with improved linkages to treatment and care; and 3) expanding highly targeted prevention programs to reach all HIV-negative persons at greatest risk.

Notice to Readers — Continued

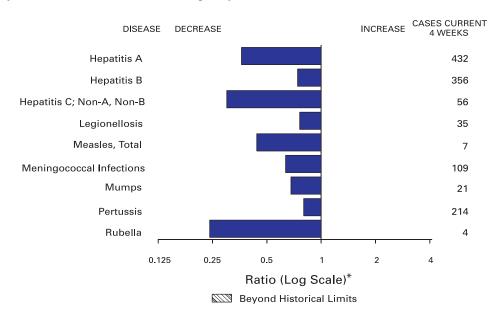
Additional information about the HIV strategic plan is available at http://www.cdc.gov/nchstp/od/news/prevention.pdf

HIV prevention programs contribute to healthier behaviors and reduce the number of new HIV infections in the United States. An expanded and sustained commitment to prevention on a global, national, community, and personal level is required to further reduce the number of new infections and of persons living with HIV.

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FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending May 26, 2001, with historical data



^{*} Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending May 26, 2001 (21st Week)

		Cum. 2001		Cum. 2001
Anthrax		-	Poliomyelitis, paralytic	-
Brucellosis*		20	Psittacosis*	4
Cholera		-	Qfever*	6
Cyclosporiasis	s*	39	Rabies, human	-
Diphtheria		1	Rocky Mountain spotted fever (RMSF)	68
Ehrlichiosis:	human granulocytic (HGE)*	29	Rubella, congenital syndrome	-
	human monocytic (HME)*	6	Streptococcal disease, invasive, group A	1,587
Encephalitis:	California serogroup viral*	-	Streptococcal toxic-shock syndrome*	23
•	eastern equine*	-	Syphilis, congenital [¶]	40
	St. Louis*	-	Tetanus	6
	western equine*	-	Toxic-shock syndrome	57
Hansen diseas	se (leprosy)*	22	Trichinosis	5
Hantavirus pu	ılmonary syndrome*†	3	Tularemia*	13
Hemolytic ure	mic syndrome, postdiarrheal*	29	Typhoid fever	86
HIV infection,		72	Yellow fever	1 -
Plague		-		

^{-:} No reported cases.

^{*}Not notifiable in all states.

[†] Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update April 24, 2001.

[§] Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 26, 2001, and May 27, 2000 (21st Week)

	weeks ending May 26, 2001, and May 27, 2000 (21st Week)										
									coli O157:H7		
	AID		Chlan			poridiosis	NET		PHI		
Reporting Area	Cum. 2001⁵	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	
UNITED STATES	11,921	14,542	248,136	280,555	558	591	453	661	317	543	
NEW ENGLAND Maine	469 14	975 14	8,920 484	9,358 543	21 3	34 5	56 6	76 5	39 6	75 6	
N.H.	13	13	484	419	-	2	10	4	6	6	
Vt. Mass.	10 271	1 668	226 3,909	221 4,007	9 4	10 10	2 22	2 35	1 16	3 29	
R.I. Conn.	40 121	33 246	1,078 2,739	1,038 3,130	3 2	2 5	4 12	3 27	2 8	5 26	
MID. ATLANTIC	2,254	3,254	25,281	30.992	60	115	43	97	31	75	
Upstate N.Y. N.Y. City	97 1,028	157 1,931	4,607 10,071	5,316 11,168	32 25	29 76	35 1	71 7	20 1	38 3	
N.J.	635	722 444	2,933	5,036	2 1	4	7 N	19 N	10	17	
Pa. E.N. CENTRAL	494 926	1,563	7,670 34,917	9,472 47,772	181	6 122	100	122	- 51	17 80	
Ohio	167	174	4,145	12,358	45	20	32	23	23	14	
Ind. III.	85 433	146 1,003	5,849 9,579	5,167 13,863	25 1	8 17	21 13	12 38	9 7	13 28	
Mich. Wis.	189 52	185 55	11,748 3,596	9,621 6,763	46 64	16 61	18 16	20 29	12	17 8	
W.N. CENTRAL Minn.	243 47	309 47	12,695 2,497	15,523 3,239	27	39 10	49 16	93 23	50 21	84 32	
Iowa Mo.	24 117	24 149	1,490 4,281	2,054 5,163	15 6	11 6	7 10	14 28	6 12	8 21	
N. Dak.	117	-	352	362	-	2	-	5	3	6	
S. Dak. Nebr.	16	3 19	754 910	710 1,506	3 3	3 4	4 4	2 14	4	3 10	
Kans. S. ATLANTIC	38 3,720	67 3,928	2,411 51,298	2,489 49,992	- 119	3 97	8 50	7 54	4 23	4 45	
Del.	72	76	1,138	1.209	1	2	-	1	-	-	
Md. D.C.	436 297	450 265	4,884 1,408	5,063 1,335	25 7	6 2	3	8 -	Ū	1 U	
Va. W. Va.	270 28	259 26	6,738 912	6,224 833	7	4 3	12 1	12 2	8 -	13 2 6	
N.C. S.C.	190 250	255 294	7,516 5,239	8,302 3,910	14	8	21 2	9 3	9 2	6 3	
Ga. Fla.	392 1.785	358 1,945	10,321 13,142	10,184 12,932	41 24	53 19	4 7	5 14	2 2	10 10	
E.S. CENTRAL	682	768	18,234	20,162	14	19	21	33	14	23	
Ky. Tenn.	121 220	99 314	3,532 5,654	3,216 5,780	1 2	1 3	5 11	10 14	5 8	10 11	
Ala. Miss.	174 167	206 149	4,433 4,615	6,359 4,807	5 6	8 7	5	1 8	1	2	
W.S. CENTRAL	1,296	1,423	38,972	42,007	7	30	24	34	29	52	
Ark. La.	81 331	92 214	3,145 6,730	2,525 7,647	2 3	1	1 1	4 3	13	4 13	
Okla. Tex.	67 817	112 1,005	3,872 25,225	3,760 28,075	2	2 21	8 14	7 20	8 8	3 32	
MOUNTAIN	510	515	13,134	16,332	44	31	49	53	31	32	
Mont. Idaho	11 7	7 11	862 703	601 765	3 5	4 3	3 6	9 9	-	4	
Wyo. Colo.	1 109	2 129	260 1,116	310 4,955	15	3	1 23	3 16	16	2 7	
N. Mex.	40 202	50	2,090	2,024	8	1	3 7	2	2 7	, 3 13	
Ariz. Utah	48	142 57	5,717 447	5,126 1,027	1 10	2 8	3	12 1	5	1	
Nev. PACIFIC	92 1,821	117 1,807	1,939 44,685	1,524 48,417	2 85	2 104	3 61	1 99	1 49	2 77	
Wash.	201	196	5,599	5,272	N	Ū	15	25 12	13	37 18	
Oreg. Calif.	69 1,526	86 1,457	981 36,912	2,771 37,927	3 81	3 101	10 34	54	7 27	14	
Alaska Hawaii	9 16	5 ස	1,067 126	1,022 1,425	1	-	1 1	1 7	2	1 7	
Guam P.R.	9 408	13 284	2,090	218 U	-	-	N	N 3	U U	U U	
V.I. Amer. Samoa	2	18	53 U	Ū	Ū	Ū	Ū	Ū	Ŭ	Ŭ	
C.N.M.I.	-	-	50	ŭ	-	Ü	-	Ü	Ü	Ü	

N: Not notifiable.

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.
* Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public

Health Laboratory Information System (PHLIS).

Chlamydia refers to genital infections caused by *C. trachomatis*. Totals reported to the Division of STD Prevention, NCHSTP.

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update April 24, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 26, 2001, and May 27, 2000 (21st Week)

	weeks er	nding May	26, 2001	, and ivia	ay 21, 2	000 (2	ist week	St vveek)				
	Gono	rrhea	Hepati Non-A,	tis C; Non-B	Legione	llosis	Listeriosis		me ease			
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2001	Cum. 2000			
UNITED STATES	113,748	135,840	888	10,102	251	268	143	925	2,189			
NEW ENGLAND	2,447	2,589	12	11	15	19	14	305	409			
Maine N.H.	56 54	32 38	-	-	4	2 2	-	45	31			
Vt. Mass.	31 1,197	26 1,028	5 7	3 5	4 4	1 9	- 8	1 61	7 148			
R.I.	274	260	-	3	1	2	1	15	-			
Conn.	835	1,205	-	-	2	3	5	183	223			
MID. ATLANTIC Upstate N.Y.	11,928 3,036	14,511 2,451	30 20	283 11	27 17	66 20	23 10	362 285	1,394 423			
N.Y. City N.J.	4,255 1,027	4,631 2,838	-	254	4 4	9 6	4 6	1 7	52 428			
Pa.	3,610	4,591	10	18	2	31	3	69	491			
E.N. CENTRAL Ohio	19,123 2,816	27,348 6,914	92 5	105 3	69 38	73 32	19 4	21 20	90 11			
Ind.	2,414	2,373	1	_	6	9	3	1	1			
III. Mich.	5,915 6,818	8,385 6,838	10 76	10 92	18	7 14	11	-	7 4			
Wis.	1,160	2,838	-	-	7	11	1	U	67			
W.N. CENTRAL Minn.	5,256 785	6,582 1,273	288	223 4	18 1	14 1	3	34 21	35 13			
lowa Mo.	392 2.662	422 3,173	284	1 212	4 9	3 7	- 1	3 7	12			
N. Dak.	13	25	-	-	_	-	-	-	-			
S. Dak. Nebr.	103 271	105 548	1	2	3	1 -	1	1	1			
Kans.	1,030	1,036	3	4	1	2	1	2	9			
S. ATLANTIC Del.	31,034 613	34,917 678	47 -	32 2	42	44 4	25	149	202 34			
Md. D.C.	2,798 1,190	3,456 931	11	2	8 2	10	2	104 7	127 1			
Va. W. Va.	3,311 224	4,042 264	- 5	1 4	6 N	3 N	4 3	27 1	18 8			
N.C.	6,106	6,877	8	12	4	6	-	5	8			
S.C. Ga.	3,798 5,610	3,478 6,241	3	1	1 2	2 4	2 7	1 -	2			
Fla.	7,384	8,950	20	10	19	15	7	4	4			
E.S. CENTRAL Ky.	11,430 1,376	14,247 1,344	91 3	190 16	23 6	8 5	8 2	4 2	9 2			
Tenn. Ala.	3,638 3,516	4,430 4.833	28 2	41 6	9	1 1	3	2	5 1			
Miss.	2,900	3,640	58	127	2	i	-	-	i			
W.S. CENTRAL	18,755	21,679	151	9,162	4	11	4	7	18			
Ark. La.	1,939 4,606	1,341 5,403	3 64	2 227	2	5	1 -	1	1			
Okla. Tex.	1,791 10,419	1,658 13,277	3 81	2 8,931	2	1 5	3	6	- 17			
MOUNTAIN	4,027	4,187	128	27	20	15	15	4	1			
Mont. Idaho	43 33	20 36	1	1 -	-	2	1	2	-			
Wyo. Colo.	17 1,240	27 1,337	101 10	1 5	1 6	- 6	2	1	1			
N. Mex.	347 1,595	426	9	6	1	1 2	3	-	-			
Ariz. Utah	41	1,678 110	4	10	6 4	4	3 1	-	-			
Nev.	711	553	3	4 m	2	-	5	1 m	-			
PACIFIC Wash.	9,748 1,199	9,780 916	49 12	69 9	33 6	18 8	32 2	39 2	31 -			
Oreg. Calif.	155 8,236	362 8,193	7 30	14 46	N 27	N 10	1 29	3 34	3 27			
Alaska Hawaii	128 30	124 185	-	-	-	-	-	N.	1 N			
Guam	-	22	-	1	-	-	-	- IN	- IN			
P.R. V.I.	653 6	230	-	i	2	-	-	N	N			
Amer. Samoa	Ú	Ü	Ū	Ü	Ū	Ü	-	Ū	Ü			
C.N.M.I.	3	U	-	U	-	U	-	-	U			

N: Not notifiable.

U: Unavailable.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 26, 2001, and May 27, 2000 (21st Week)

	weeks 6	enaing ivi	ay 26, 20	001, and M	ay 27, 20	00 (21st W	(еек)	
						Salmon	ellosis*	
	Mal			s, Animal	NE ⁻			ILIS
Reporting Area	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000
UNITED STATES	338	442	2,284	2,500	9,218	11,029	7,345	10,711
NEW ENGLAND	26	18	241	282	747	649	666	692
Maine N.H.	3 2	2 1	30 7	60 3	88 55	48 45	70 42	33 46
Vt.	-	2	34	22	32	45	32	53
Mass. R.I.	6 3	8 3	74 26	90 19	421 42	377 25	320 55	374 51
Conn.	12	2	70	88	109	109	147	135
MID. ATLANTIC	62 88		301	378	927	1,603	1,144	1,828
Upstate N.Y. N.Y. City	16 20 33 42		231 5	261 3	341 301	350 455	322 362	480 476
N.J. Pa.	8	13 13	ස 2	60	204	447 251	218 242	347 525
E.N. CENTRAL	5 13 41 56 9 5		14	54 25	81 1,280	351 1,642	1,047	1,564
Ohio			2	25 4	472	373	408	372
Ind. III.	9 1	2 33	1 2	1	136 281	167 519	112 179	186 555
Mich.	15 10		9	13	244	317	226	340
Wis.	7	6	-	7	147	266	122	111
W.N. CENTRAL Minn.	14 6	22 7	128 15	227 32	552 158	608 66	598 207	785 226
lowa	1	1	22	33	85	80	89	88
Mo. N. Dak.	3	3 2	13 17	10 57	147 1	227 15	194 18	267 26
S. Dak.	2	3	15 1	48	40 44	25 71	31	39 48
Nebr. Kans.	2	6	45	47	77	124	59	91
S. ATLANTIC	89	93	818	865	2,320	1,861	1,436	1,586
Del. Md.	1 35	2 35	12 97	18 165	25 240	35 257	27 255	39 290
D.C.	4	1	-	-	26	19	U	U
Va. W. Va.	20 1	23	168 54	220 51	391 33	243 46	314 33	252 42
N.C.	2	9	239	217	373	274	194	232
S.C. Ga.	4 3	1 4	50 110	49 91	269 319	154 308	239 301	133 447
Fla.	19	18	88	54	644	525	73	151
E.S. CENTRAL Ky.	10 2	15 2	79 10	74 10	528 97	529 113	315 67	431 81
lenn.	5	5	57	45	143	131	115	195
Ala. Miss.	3	7 1	12	19	192 96	156 129	109 24	129 26
W.S. CENTRAL	5	23	479	436	896	1,220	498	733
Ark.	2	1	-	-	122	116	79	83
La. Okla.	1 1	4 1	37	30	208 75	211 104	168 53	155 89
Tex.	1	17	442	406	491	789	198	406
MOUNTAIN Mont.	19 2	19 1	90 14	93 24	636 25	928 40	524	862
ldaho	2	-	-	1	32	49	4	47
Wyo. Colo.	9	10	16	27	25 187	21 288	16 189	18 272
N. Mex.	1	2	3	6	84	82	66	73
Ariz. Utah	1 2	3	57 -	34 1	169 68	210 141	158 68	225 134
Nev.	2	3	-	-	46	97	23	93
PACIFIC Wash.	72 2	108 7	134	120	1,332 148	1,989 150	1,117 205	2,230 243
Oreg.	4	21	-	-	62	126	92	161
Calif. Alaska	62 1	77	101 33	97 23	1,070 16	1,623 22	704 2	1,741 19
Hawaii	3	3	-		36	68	114	66
Guam P.R.	-	- 2	- 61	- -	104	9	U U	U U
V.I.	-	3	-	25	-	142	Ü	Ü
Amer. Samoa C.N.M.I.	U	U U	U	U U	U 3	U U	U U	U U

N: Not notifiable. U: Unavailable. -: No reported cases.

* Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending May 26, 2001, and May 27, 2000 (21st Week)

	weeks e			001, and IV	lay 27, 20	000 (21st V	st Week)			
	NET		llosis*	PHLIS	Sy (Primary 8	rphilis & Secondary)	Tube	rculosis		
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.		
	2001	2000	2001	2000	2001	2000	2001	2000		
UNITED STATES	4,448	6,970	2,147	4,427	1,979	2,564	4,036	5,015		
NEW ENGLAND	71	117	67	97	18	31	150	144		
Maine N.H.	3 1	4 1	1 1	4	1	1 1	5 7	3 3		
Vt. Mass.	3 47	1 79	1 39	62	1 11	23	2 90	2 88		
R.I.	6	10	9	10	1	1	13	12		
Conn.	11	22	16	21		5	33	36		
MID. ATLANTIC	364	1,055	320	646	137	117	817	852		
Upstate N.Y.	162	355	14	143	4	5	117	110		
N.Y. City	125	503	174	321	85	50	433	471		
N.J.	40	120	67	93	29	26	188	198		
Pa.	37	<i>7</i> 7	65	89	19	36	<i>7</i> 9	73		
E.N. CENTRAL	636	1,205	330	759	294	555	439	506		
Ohio	235	88	130	74	29	28	65	114		
Ind.	106	249	17	42	70	187	28	51		
III.	141	390	84	318	82	195	237	232		
Mich.	124	329	86	297	104	119	79	73		
Wis.	30	149	13	28	9	26	30	36		
W.N. CENTRAL	513	531	398	462	24	38	161	199		
Minn.	181	91	199	144	12	4	88	66		
lowa	92	132	79	128	1	10	9	13		
Mo.	114	243	69	151	6	19	43	76		
N. Dak. S. Dak.	9 49	2 2	1 33	1 1	-	-	- 6	9		
Nebr.	29	23	-	11	-	2 3	15	9		
Kans.	39	38	17	26	5		-	26		
S. ATLANTIC	718	782	219	306	795	838	753	841		
Del.	4	5	4	5	4	4	74	2		
Md.	45	37	23	13	92	130		91		
D.C.	21	8	Ú	Ú	16	19	15	1		
Va.	53	66	26	85	55	54	83	106		
W. Va.	4	3	6	2	192	1	11	15		
N.C.	151	49	70	26		240	103	119		
S.C.	67	27	35	43	109	89	37	30		
Ga.	86	97	51	81	109	146	163	192		
Fla.	287	490	4	51	218	155	267	285		
E.S. CENTRAL	408	332	164	241	223	380	256	363		
Ky.	144	76	50	36	18	42	38	41		
Ténn.	39	161	28	185	126	239	69	138		
Ala.	108	15	78	17	38	46	116	120		
Miss.	117	80	8	3	41	53	33	64		
W.S. CENTRAL	785	1,228	349	371	261	350	489	805		
Ark.	235	77	144	24	18	45	51	73		
La.	87	110	71	58	55	81	-	64		
Okla.	13	23	2	14	32	61	51	50		
Tex.	450	1,018	132	275	156	163	387	618		
MOUNTAIN	278	364	172	231	83	84	151	189		
Mont.	-	3		19	- -		- 4	6		
ldaho Wyo.	14	28 2	-	2	-	1	-	4		
Colo.	60	69	49	30	15	5	45	24		
N. Mex.	49	36	29	<u>21</u>	_6	8	11	21		
Ariz.	117	128	69	77	52	68	54	69		
Utah	18	32	17	35	6		6	20		
Nev. PACIFIC	20 675	66 1,356	8 128	47	4 144	2 171	31 820	1 116		
Wash.	67	293	76	1,314 278	23	23	82	1,116 92		
Oreg.	21	92	36	56	2	6	35	33		
Calif.	580	950		965	118	141	680	906		
Alaska Hawaii	2 5	6 15	1 15	3 12	1	1	17 6	37 48		
Guam	7	18	U	U	-	2	-	26		
P.R.		14	U	U	136	78	58	61		
V.I. Amer. Samoa	, U	14 - U	Ü	Ü	136 - U	/6 - U	50 - U	Ū		
C.N.M.I.	4	Ü	Ü	U	-	Ü	15	Ü		

N: Not notifiable. U: Unavailable. -: No reported cases.
*Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 26, 2001, and May 27, 2000 (21st Week)

	U infl.	enzae, Hepatitis (Viral), By Type						Measles (Rubeola)							
	Inva			epatitis (V	гат, ву гур В	Je	Indiger	nous	Impo		Total				
Reporting Area	Cum. 2001 [†]	Cum. 2000	Cum. 2001	Cum. 2000	Cum. 2001	Cum. 2000	2001	Cum. 2001	2001	Cum. 2001	Cum. 2001	Cum. 2000			
UNITED STATES	572	560	3,617	5,260	2,382	2,666	-	24	-	20	44	32			
NEW ENGLAND	19	44	170	127	39	44		3		1	4	-			
Maine N.H.	1 -	1 6	5 5	7 11	4 9	5 8	U	-	U	-	-	-			
Vt. Mass.	1 16	3 26	3 48	3 51	2 3	3 2	-	1 2	-	1	1 3	-			
R.I. Conn.	1	1 7	8 101	6 49	9 12	9 17	-	-	-	-	-	-			
MID. ATLANTIC	70	86	326	494	331	481	_	2	_	5	7	10			
Upstate N.Y. N.Y. City	27 23	32 27	103 133	94 201	56 182	50 231	-	1	-	4	5	10			
N.J.	19	22 5	70 20	82	64 29	86		-	-	1	1	-			
Pa. E.N. CENTRAL	1 74	5 87	20 418	117 697	29 294	114 282	U	1	U	10	1 10	3			
Ohio	37	27	100	127	53	46	-	-	-	3	3	2			
Ind. III.	19 10	10 31	39 121	18 295	12 24	20 36	-	-	-	4 3	4 3	-			
Mich. Wis.	4 4	7 12	143 15	214 43	205	167 13	Ū	-	Ū	-	-	1 -			
W.N. CENTRAL	22	27	163	392	87	113	-	4	-	-	4	-			
Minn. Iowa	11 -	15 -	12 16	103 38	10 9	14 14	-	2	-	-	2	-			
Mo. N. Dak.	9	8 1	44	180	47	57 2	Ū	2	Ū	-	2	-			
S. Dak. Nebr.	- 1	2	1 21	- 17	1 9	18	-	-	-	-	-	-			
Kans.	i	1	69	54	11	8	-	-	-	-	-	-			
S. ATLANTIC Del.	190	132	732	509 8	521	436 7	Ū	3	Ū	1	4	-			
Md.	43	33	105	57	59	57	-	2	-	1	3	-			
D.C. Va.	14	27	18 55	3 64	3 54	5 60	-	-	-	-	-	-			
W. Va. N.C.	4 23	4 10	2 49	38 84	12 99	4 109	-	-	-	-	-	-			
S.C. Ga.	5 50	3 38	23 273	16 74	6 136	3 75	-	- 1	-	-	- 1	-			
Fla.	51	17	207	165	152	116	-	-	-	-		-			
E.S. CENTRAL Ky.	45 2	27 10	131 19	216 22	151 17	187 3 8	-	2	-	-	2 2	-			
Tenn. Ala.	20 22	11 4	59 47	81 26	58 39	79 23	-	-	-	-		-			
Miss.	1	2	6	87	37	47	Ū	-	Ū	-	-	-			
W.S. CENTRAL Ark.	22	31	549 29	970 79	280 44	395 42	-	1	-	-	1	-			
La. Okla.	2 20	10 20	42 73	41 129	22 36	66 54	-	-	-	-	-	-			
Tex.	20 -	1	405	721	36 178	233	Ū	1	Ū	-	1	-			
MOUNTAIN	91	61	311 4	351	231	193	i.	-	ū	1	1	9			
Mont. Idaho	1	2	2 8	1 13	1 6	3 4	U . . .	-	U 	1	1	-			
Wyo. Colo.	4 21	11	15 30	3 75	16 48	35	U	-	U	-	-	2			
N. Mex. Ariz.	12 43	14 28	10 162	38 165	63 69	57 66	-	-	-	-	-	-			
Utah Nev.	3 7	4 2	27 35	26 30	11 17	10 18	-	-	-	-	-	3 4			
PACIFIC	39	65	817	1,504	448	535	_	9	_	2	11	10			
Wash. Oreg.	1 11	3 20	34 28	127 101	42 18	27 43	-	- 1	-	-	1	3			
Calif.	24	25	743	1,259	385	456	Ū	ż	Ū	1	8	5			
Alaska Hawaii	2 1	1 16	12	6 11	3	3 6	-	1	-	1	2	1 1			
Guam P.R.	-	2	- 41	1 140	28	8 104	U U	-	U	-	-	-			
V.I.		-	-	-	-	-	Ü	-	Ü		. .				
Amer. Samoa C.N.M.I.	U -	U U	U -	U U	U 17	U U	U U	U -	U U	U -	U -	U U			

N: Not notifiable. U: Unavailable. -: No reported cases.
*For imported measles, cases include only those resulting from importation from other countries.

[†] Of 122 cases among children aged <5 years, serotype was reported for 57, and of those, eight were type b.

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending May 26, 2001, and May 27, 2000 (21st Week)

	Mening	jococcal	and ivi	ay 21, 2	2000 (2	ISLVV	eek/						
	Dis Cum.	ease Cum.		Mumps Cum.	Cum.		Pertussis Cum.	Cum.		Rubella Cum.	Cum.		
Reporting Area	2001	2000	2001	2001	2000	2001	2001	2000	2001	2001	2000		
UNITED STATES	1,111	1,100	3	72	169	64	1,717	2,130	1	6	65		
NEW ENGLAND Maine	68 1	60 5	Ū	-	2	1 U	180	561 12	Ū	-	10		
N.H.	7	4 2	-	-	-	-	16	54	-	-	1		
Vt. Mass.	5 38	37	-	-	-	-	22 133	104 36 <u>1</u>	-	-	8		
R.I. Conn.	2 15	3 9	-	-	1 1	1	1 8	7 23	-	-	1		
MID. ATLANTIC	83	104	-	2	11	4	105	198	-	1	5		
Upstate N.Y. N.Y. City	35 20	27 26	-	1 1	5 3	4	89 6	95 35	-	1 -	1 4		
N.J. Pa.	23 5	22 29	Ū	-	3	Ū	2 8	68	Ū	-	-		
E.N. CENTRAL	141	196	-	9	16	6	206	268	_	3	-		
Ohio Ind.	51 24	40 21	-	1 1	7	4 1	127 19	155 22	-	1	-		
III. Mich.	20 25	50 62	-	6 1	4 4	1	23 19	22 19	-	2	-		
Wis.	21	23	Ū	:	1	Ū	18	50	Ū	-	-		
W.N. CENTRAL Minn.	74 10	69 7	-	4 1	10	2	82 17	86 46	-	1	1		
lowa Mo.	18 25	16 33	-	:	5 2	2	10 38	8 14	-	1	-		
N. Dak.	3	1	Ū	-	-	U	-	1	U	-	-		
S. Dak. Nebr.	4 5	4 4	-	1	1	-	3 2	1 3	-	-	1		
Kans.	9	4	-	2	2	-	12	13	-	-	-		
S. ATLANTIC Del.	209	156	2 U	17 -	24	4 U	91 -	157 4	1 U	1 -	28		
Md. D.C.	27	16	-	4	5	-	13 1	42	-	-	-		
Va. W. Va.	21 4	28 7	-	2	4	-	10 1	15	-	-	-		
N.C.	45 21	27 13	1	1	3	3	33 19	39	-	-	20		
S.C. Ga.	30	26	-	7	2	-	3	16 19	-	-	6		
Fla. E.S. CENTRAL	61 79	39 77	1	2 1	3 4	1 1	11 40	22 43	1	1	2 4		
Ky.	13	15	-	1	-	-	11	25		-	1		
Tenn. Ala.	29 30	34 22	-	-	2 2	1	17 9	7 8	-	-	3		
Miss.	7	6	U	-	-	U	3	3	U	-	-		
W.S. CENTRAL Ark.	160 10	128 6	-	7 1	20 1	-	53 3	85 10	-	-	6 1		
La. Okla.	52 18	33 19	-	2	4	-	1 1	6 9	-	-	1 -		
Tex.	80	70	U	4	15	U	48	60	U	-	4		
MOUNTAIN Mont.	57 -	52 1	1 U	7	13 1	44 U	828 6	331 7	Ū	-	1 -		
ldaho Wyo.	5 1	6	Ū	1 1	1	1 U	161 1	39	Ū	-	-		
Colo.	23	14	-	1	-	5	140	188	-	-	1		
N. Mex. Ariz.	8 11	6 17	1	2 1	1 3	38	49 453	54 30	-	-	-		
Utah Nev.	5 4	6 2	-	1	4 3	-	13 5	9 4	-	-	-		
PACIFIC	240	258	-	25	69	2	132	401	-	-	10		
Wash. Oreg.	38 17	23 29	N	N	2 N	2	40 9	116 38	-	-	7		
Calif. Alaska	181 2	195 3	Ü	20 1	58 4	Ū	83	222 5	U	-	3		
Hawaii	2	8	-	4	5	-	-	20		-	-		
Guam P.R.	- 1	- 5	U	-	3	U	-	2 1	U	-	1		
V.I. Amer. Samoa	U	Ü	Ü	Ū	Ū	Ü	Ū	Ü	Ŭ	Ū	Ū		
C.N.M.I.	-	Ŭ	Ü	-	ŭ	Ü	-	Ü	ŭ	-	Ü		

N: Not notifiable.

U: Unavailable.

-: No reported cases.

TABLE IV. Deaths in 122 U.S. cities,* week ending May 26, 2001 (21st Week)

iviay 20, 2							200	I (ZISL WEEL	T						
		All Cau	ıses, By	Age (Y	ears)		P&I⁺			All Cau	ises, By	Age (Y	ears)		P&I [†]
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn Cambridge, Mass Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Ma New Haven, Conn Providence, R.I. Somerville, Mass Springfield, Mass Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J.	615 167 . 41 . 20 . 24 . 52 . 30 . 8 .ss. 29 . 37 . 62 . 41	450 101 29 15 21 34 26 6 25 26 52 31 34 34 34 25 52 52 52 52 52 7 7 7 7 7 7 7 7 7 7 7	1 8 7 - 4 4 7 409	42 17 6 - 1 2 1 1 1 3 1 1 - 4 4 1 1 4 1 1 - 6 - 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 2 - - 3 1 - - 1 - 1 - 1 37 1 - - - 1	9 2 1 - - 2 1 - 2 39 - 4 3 U	54 9 2 3 3 7 2 1 2 7 - 3 3 12 100 3 12 10 10 10 10 10	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, F Tampa, Fla. Washington, D.G Wilmington, D.G Wilmington, D.G E.S. CENTRAL Birmingham, Alc Chattanooga, Te Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Al	1,164 191 254 93 . U 268 46 65 U 161 . U 172 a. 182 a. 182 a. 182 a. 182 a. 172 a. 172	734 104 158 58 U 176 26 39 U 35 138 U U 491 128 84 47 109 51 84 18	264 58 56 25 U 54 12 15 U 5 39 U U 169 36 24 25 21 39 7	112 23 30 7 U 24 4 9 U 1 14 U U 45 10 4 15 7 4	34 67 2 U 7 11 10 U U 13 2 2 2 1 2	20 - 3 3 1 U 7 7 3 1 U U U U U 14 4 1 1 - 7 2 2 -	81 4 21 11 U 24 5 4 U 4 8 U U 67 299 12 3 6 6 12 4 1
Erie, Pa.§ Jersey City, N.J. New York City, N.J. New York City, N.Y. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	U 15 324 33 22 117	30 27 706 U 7 212 20 17 90 26 63 U 17 U	6 5 234 U 4 77 7 2 21 3 12 8 U 1 U	1 2 89 U 4 23 2 1 1 1 4 U 1 U	1 19 U - 8 1 1 2 - - - U	1 17 U - 4 3 1 3 - 3 U	1 44 U - 18 3 3 7 1 2 5 U - U	Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La Corpus Christi, Toallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La San Antonio, Te Shreveport, La. Tulsa, Okla.	Fex. 54 216 86 96 U 62 . 61 x. 242 U 130	752 53 50 39 136 67 70 U 41 36 173 U 87	U 208 17 11 11 44 13 13 U 16 17 40 U 26	70 10 6 1 18 3 3 U 4 2 15 U 8	U 32 1 3 1 9 2 - U - 3 8 U 5	U 39 1 2 9 1 10 U 1 3 6 U 4	U 70 7 2 11 11 3 - U 1 4 17 U 14
E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Gary, Ind. Gary, Ind. Grand Rapids, Mi Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohi W.N. CENTRAL Des Moines, Iowa Duluth, Minn.	149 34 104 43 45 42 88 0 71 674	1,076 46 35 56 102 122 122 10 49 34 98 35 32 37 63 52 472 472	7 U 23 39 37 17 51 U 12 5 6 6 34 4 10 4 13 9 115	106 5 4 U 13 10 11 4 24 U 5 - 1 9 1 3 2 2 2 - 8 4 4 8 3 1 3 1 3 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	38 1 1 1 3 4 5 1 5 0 3 1 5 1 5 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1	43 2 1 U 6 1 3 1 9 U - 3 1 1 5 - 3 1 1 1 3 2 16 - 1	108 73U6912611U5 - 606915651 4762	MOUNTAIN Albuquerque, N Boise, Idaho Colo. Springs, C Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, U Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawa Long Beach, Cal Los Angeles, Cal Destroated Color Los Angeles, Cal San Diego, Calif. San Francisco, Cal San Jose Calif.	olo. 666 211 211 212 213 214 215 215 215 215 215 215 215 215 215 215	696 75 31 45 79 150 93 23 27 109 1,546 15 89 18 121 146 121 110 121 110 121	168 18 13 19 34 4 46 17 408 3 22 8 14 14 26 19 18 18 19 18 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	69 7 - 3 10 13 - 17 3 4 12 152 1 3 2 3 3 U 75 1 15 12 12 10 10 11 12 12 10 10 10 11 11 12 13 14 15 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	42 3 3 3 7 18 3 3 41 - 1 1 19 1 5 7 2 U U	32 2 1 1 2 2 5 3 3 1 1 6 - 3 3 9 35 2 2 U 14 - 4 5 5 5 U U	96 23 5 10 6 6 2 10 4 13 7 7 17 12 4 8 U 8 5 16 16 17 U 9 16 16 17 10 10 16 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Kansas City, Kans Kansas City, Mo. Lincoln, Nebr. Minneapolis, Min Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	. 10 117 34	671 29 131 67 61 U 38	3 24 4 29 13 23 U	12 1 7 1 13 U	5 2 4 8 U 3	1 5 - 4 1 - U 4	7 5 16 8 U 3	Santa Cruz, Calif Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	f. 27 144 66 106 11,042 [¶]	21 104 49 80 7,590	5 24 11 17 2,144	1 10 4 4 781	4 1 1 269	2 1 - 247	5 11 3 6 795

U: Unavailable. -: No reported cases.

^{*}Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

[†]Pneumonia and influenza.

Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.

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