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References

1. World Health Organization. Cumulative number of reported cases of severe acute respiratory syndrome (SARS). Available at http://www.who.int/csr/sarscountry/2003_04_16/en.
2. World Health Organization. Affected areas—severe acute respiratory syndrome (SARS). Available at http://www.who.int/csr/sarsareas/2003_04_16/en/.
3. World Health Organization. Case definitions for surveillance of severe acute respiratory syndrome (SARS). Available at <http://www.who.int/csr/sars/casedefinition/en>.
4. CDC. Severe Acute Respiratory Syndrome (SARS) and Coronavirus Testing—United States, 2003. MMWR 2003;52: 297–302.
5. O'Brien D, Tobin S, Brown GV, Torresi J. Fever in returned travelers: review of hospital admissions for a 3-year period. Clin Infect Dis 2001;33:603–9.
6. Leder K, Sundararajan V, Weld L, et al. Respiratory tract infections in travelers: a review of the GeoSentinel Surveillance Network. Clin Infect Dis 2003;36:399–406.
7. CDC. Updated interim U.S. case definition of severe acute respiratory syndrome (SARS). Available at <http://www.cdc.gov/ncidod/sars/casedefinition.htm>.
8. CDC. Updated interim domestic guidelines for triage and disposition of patients who may have severe acute respiratory syndrome (SARS). Available at http://www.cdc.gov/ncidod/sars/triage_interim_guidance.htm.
9. CDC. Interim guidance on infection control precautions for patients with suspected severe acute respiratory syndrome (SARS) and close contacts in households. Available at <http://www.cdc.gov/ncidod/sars/ic-closecontacts.htm>.
10. CDC. SARS coronavirus sequencing. Available at <http://www.cdc.gov/ncidod/sars/sequence.htm>.

Pneumoconiosis Prevalence Among Working Coal Miners Examined in Federal Chest Radiograph Surveillance Programs — United States, 1996–2002

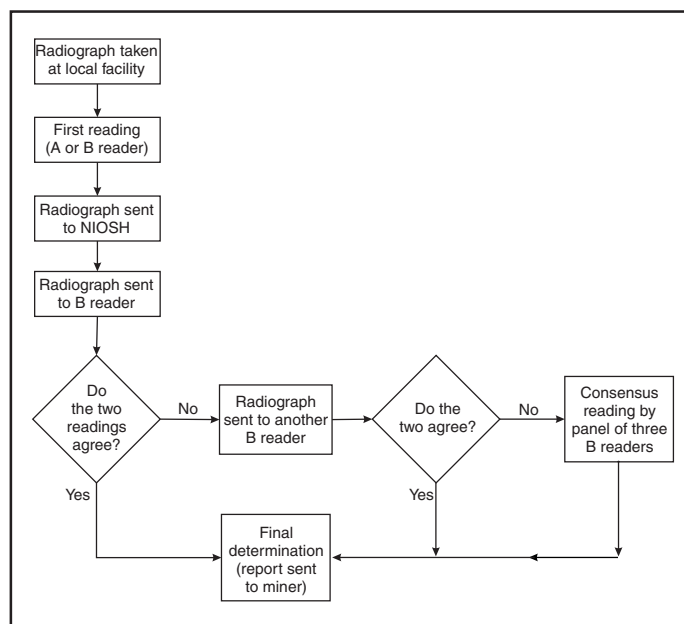
Coal workers' pneumoconiosis (CWP) is a chronic lung disease caused by inhalation of coal mine dust. To characterize the prevalence of CWP, the National Institute for Occupational Safety and Health (NIOSH) analyzed recent radiographic information from the U.S. National Coal Workers' X-ray Surveillance Program (CWXSP). Established under the Federal Coal Mine Health and Safety Act of 1969 (1), CWXSP is administered by NIOSH under federal regulations (2). NIOSH is responsible for approving coal miner examination plans, submitted approximately every 5 years by companies that operate underground coal mines. This report summarizes the results of the analysis, which indicate that the overall prevalence of CWP among participating miners continues to decline; however, new cases are occurring among miners who have worked exclusively under current dust exposure limits. An evaluation of the mining conditions that have resulted in these cases is underway.

Federal regulations specify that companies offer underground coal miners a chest radiograph at first employment and every 5 years thereafter while employed. Periodic radiographs that use a specified radiographic technique are offered during a 6-month examination period at NIOSH-approved health facilities. During October 1, 1999–September 30, 2002, NIOSH collaborated with the Mine Safety and Health Administration (MSHA) to accept films from MSHA's new Miners' Choice Program (MCP) for classification by using CWXSP procedures. Operating independently of coal mine operators, MCP ran concurrently with CWXSP and encouraged miners to undergo radiographic examination. MCP participants were miners from 586 surface coal mines, which are not required or encouraged to participate in CWXSP, and from 444 underground coal mines.

Coal miner chest radiographs taken under these programs are classified by using the 1980 International Labour Office (ILO) International Classification of Radiographs of Pneumoconioses (3). To ensure proficiency in classification, NIOSH has established a two-tier system for designation of radiograph readers. "A" readers have completed a training course or have otherwise demonstrated competence in the use of the ILO Classification, and "B" readers have successfully completed a certification examination and must be recertified every 4 years (4). A final determination of the classification of each radiograph is made by using a standardized process and requires agreement between at least two readers, only one of whom may be an "A" reader, about both the presence and severity of apparent dust-related abnormalities (Figure 1) (2). An identification of CWP requires reader agreement that small pneumoconiotic opacities are present at an ILO profusion category of $\geq 1/0$. An identification of progressive massive fibrosis (PMF), an advanced form of CWP, requires reader agreement on the presence of large pneumoconiotic opacities.

During October 1, 1995–September 30, 2002, CWXSP and MCP received 35,983 readable chest films for 31,179 miners at 1,439 mines in 23 states. The crude prevalence of CWP among all examinees was 2.8% (862 cases), and the corresponding prevalence of PMF was 0.2% (62 cases). CWP prevalences among examinees who were noncontract employees at surface mines, noncontract employees at underground mines, and contract* miners were 1.9%, 3.2%, and 3.0%, respectively. Among the 16 states with underground noncontract miner examinees, CWP prevalences ranged from zero to 9.6%, and corresponding PMF prevalences ranged

FIGURE 1. Final determination process for chest radiograph classifications — U.S. National Coal Workers' X-Ray Surveillance Program and Miners' Choice Program



from zero to 0.6% (Table 1). Examinees from larger mines (≥ 50 employees) had a lower prevalence of pneumoconiosis than those from smaller mines (2.0% versus 5.6% for CWP [$p < 0.0001$], and 0.1% versus 0.5% for PMF [$p < 0.0001$]). For all age groups, the prevalences of CWP and PMF increased with age (Table 2).

Information about tenure in coal mining was available for 28,253 miners. For underground miners of all tenures ($n = 18,388$), CWP and PMF prevalences increased with underground mining tenure (Table 2). Corresponding tenure-specific prevalences among surface miners ($n = 9,793$) similarly increased with surface mining tenure.

Participation rates were estimated by using the number of coal miners for whom radiographs were taken and the average number of coal miners employed during the same period, based on quarterly employment figures obtained from MSHA. Estimated participation rates were 25.5% for noncontract miners and 0.1% for contract miners and varied substantially by state (Table 1). Participation was higher among miners who worked at large mines than among miners at small mines (37.6% versus 11.7%; $p < 0.0001$), and among miners at underground mines than among miners at surface mines (31.0% versus 18.9%; $p < 0.0001$). Estimated participation rates for miners at mines at which at least one miner was examined were 34.4% for noncontract underground miners and 31.9% for surface miners.

* Persons who perform mining-related tasks, either underground or at the surface, for other business entities that coal mine owners or operators contract with for services.

TABLE 1. Prevalence of coal workers' pneumoconiosis (CWP) and progressive massive fibrosis (PMF) among examined noncontract miners*, estimated number of employees, and participation rates, by state — U.S. National Coal Workers' X-ray Surveillance Program and Miners' Choice Program, fiscal years 1996–2002

State	Average employment and estimated participation†							
	Underground miners			Surface miners				
	No. miners examined	CWP No. (%)	PMF No. (%)	No. miners examined	CWP No. (%)	PMF No. (%)		
Alabama	2,308	25 (1.1)	3 (0.1)	524	5 (1.0)	1 (0.2)	3,904 (59.1)	2,200 (23.8)
Arizona	0	—	—	520	5 (1.0)	0 (0)	0	737 (70.6)
Arkansas	9	0 (0)	0 (0)	0	—	—	9 (100.0)	13 (0)
Colorado	1,655	24 (1.5)	3 (0.2)	180	3 (1.7)	0 (0)	1,655 (100.0)	712 (25.3)
Illinois	2,863	31 (1.1)	1 (0.0)	175	1 (0.6)	0 (0)	4,300 (66.6)	1,212 (14.4)
Indiana	816	5 (0.6)	0 (0)	397	2 (0.5)	0 (0)	816 (100.0)	2,836 (14.0)
Kentucky	3,073	106 (3.5)	9 (0.3)	1,253	34 (2.7)	3 (0.2)	19,220 (16.0)	13,910 (9.0)
Louisiana	0	—	—	112	0 (0)	0 (0)	0	168 (66.7)
Maryland	249	24 (9.6)	0 (0)	52	2 (3.9)	0 (0)	273 (91.2)	247 (21.1)
Montana	0	—	—	183	0 (0)	0 (0)	13 (0)	902 (20.3)
New Mexico	123	1 (0.8)	0 (0)	919	7 (0.8)	0 (0)	123 (100.0)	1,654 (55.6)
North Dakota	0	—	—	278	2 (0.7)	0 (0)	0	966 (28.8)
Ohio	530	9 (1.7)	0 (0)	406	10 (2.5)	0 (0)	1,952 (27.2)	2,241 (18.1)
Oklahoma	21	0 (0)	0 (0)	0	—	—	43 (48.8)	259 (0)
Pennsylvania	2,468	44 (1.8)	3 (0.1)	778	22 (2.8)	3 (0.4)	6,204 (39.8)	5,468 (14.2)
Tennessee	102	5 (4.9)	0 (0)	52	2 (3.9)	0 (0)	681 (15.0)	712 (7.3)
Texas	0	—	—	1,292	11 (0.9)	0 (0)	0	2,598 (49.7)
Utah	1,586	8 (0.5)	1 (0.1)	48	1 (2.1)	0 (0)	2,184 (72.6)	96 (50.0)
Virginia	1,749	150 (8.6)	11 (0.6)	743	28 (3.8)	1 (0.1)	6,771 (25.8)	3,718 (20.0)
Washington	0	—	—	81	0 (0)	0 (0)	0	580 (14.0)
West Virginia	3,069	232 (7.6)	17 (0.6)	1,221	58 (4.8)	5 (0.4)	18,289 (16.8)	8,939 (13.7)
Wyoming	26	0 (0)	0 (0)	1,252	3 (0.2)	0 (0)	95 (27.4)	4,771 (26.2)
Others§	0	—	—	0	—	—	8	550 (0)
Total	20,647	664 (3.2)	48 (0.2)	10,466	196 (1.9)	13 (0.1)	66,540 (31.0)	55,489 (18.9)

* Among 66 examined contract miners from nine states (Alabama, Indiana, Kentucky, Michigan, Pennsylvania, Tennessee, Utah, Virginia, and West Virginia), two were determined to have CWP, and one was determined to have PMF.

† Participation by contract miners was low; of an estimated 47,662 contract miners working at surface or underground coal mines, only 66 (0.1%) were examined in the federal programs.

‡ Alaska, California, Kansas, Mississippi, and Missouri.

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Editorial Note: To reduce the occurrence of occupational respiratory disability among coal miners, the Coal Mine Health and Safety Act of 1969 established limits on permissible dust exposures in underground coal mines and a radiographic screening program for underground coal miners. As mandated by the act, underground miners determined to have radiographic evidence of CWP are offered frequent exposure monitoring to ensure that their exposure to respirable dust is <1.0 mg/m³, and wage rates are retained if a job transfer is necessary to limit dust exposure. Miners with PMF are qualified to receive Federal Black Lung benefits.

During 1970–1995, CWP prevalence declined markedly (4–6), highlighting an intended outcome of dust control in underground coal mines. The findings in this report indicate

a continuing decline in CWP prevalence for underground miners with tenures of >20 years but no clear trend for those with tenures of ≤20 years (Figure 2). CWP continues to occur among working coal miners, even among those first employed after the current federal exposure limit became effective. The results raise concern about possible excessive exposures experienced by miners in several states, at smaller mines, and by some surface and contract miners.

Both CWXSP and MCP address data quality and control biases by specifying standardized radiographic technique, by using only approved facilities and radiographic equipment, and by employing a standardized approach for assigning final determinations of radiograph classifications based on independent readings of each radiograph by multiple certified readers.

The findings in this report are subject to at least four limitations. First, the programs are restricted to employed miners and are voluntary. Second, participation rates were low, especially among contract miners and miners at small mines. Third,

TABLE 2. Prevalence of coal workers' pneumoconiosis (CWP) and progressive massive fibrosis (PMF) among examined coal miners, by age group and tenure group — United States, fiscal years 1996–2002

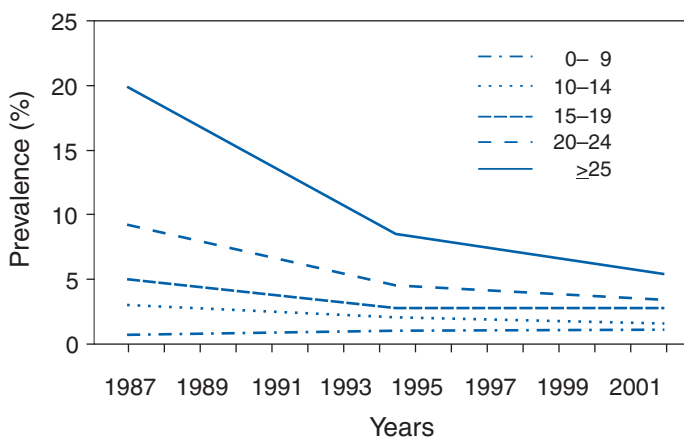
Age/Tenure group (yrs)	No. miners examined	CWP		PMF	
		No.	(%)	No.	(%)
Age group					
<30	3,440	8	(0.2)	0	(0)
30–39	4,955	85	(1.7)	4	(0.1)
40–49	12,975	392	(3.0)	24	(0.2)
50–59	8,632	317	(3.7)	25	(0.3)
≥60	1,177	60	(5.1)	9	(0.8)
Total	31,179	862	(2.8)	62	(0.2)
Underground coal mining tenure*					
0– 9	3,268	36	(1.1)	0	(0)
10–14	1,403	22	(1.6)	0	(0)
15–19	1,985	56	(2.8)	4	(0.2)
20–24	4,954	166	(3.4)	13	(0.3)
≥25	6,778	367	(5.4)	30	(0.4)
Total	18,388	647	(3.5)	47	(0.3)
Surface coal mining tenure*					
0– 9	1,600	9	(0.6)	0	(0)
10–14	1,006	11	(1.1)	0	(0)
15–19	1,193	15	(1.3)	0	(0)
20–24	2,612	38	(1.5)	1	(0.0)
≥25	3,403	114	(3.4)	10	(0.3)
Total	9,814	187	(1.9)	11	(0.1)

* For examinees with job tenure information available.

work history data (e.g., tenure and date of first employment in mining) were not obtained consistently for all examinees. Finally, the effect of resulting potential participation biases on the generalizability of the aggregate results beyond the examinees is not clear, and the prevalences of CWP and PMF among all working or retired U.S. coal miners cannot be determined from available data. However, the general validity of these results is supported by the consistent relations observed over time between CWP prevalence and year of first employment, age, and tenure.

Estimated participation rates were based on approximate denominators derived from the required quarterly reporting to MSHA of mine employment by coal operators. Several factors probably reduced participation rates: 1) MCP was not available at all surface mines; 2) at some underground mines, miners were not offered radiographs as required by CWXSP; and 3) not all of the underground miners included in denominators based on MSHA employment reports were employed during their mine's 6-month examination period. MCP was initiated in response to recommendations to enhance medical screening and health surveillance of coal miners (7) and has shown some early success in increasing participation of coal miners. The experience with this program

FIGURE 2. Trends in coal workers' pneumoconiosis prevalence by tenure among examinees employed at underground coal mines — U.S. National Coal Workers' X-Ray Surveillance Program, 1987–2002



is being reviewed to identify approaches that might result in sustained improvements in participation.

Radiographic screening and surveillance programs protect the health of coal miners by detecting CWP and PMF in miners, allowing for preventive intervention focused on affected miners. Through aggregate analyses of screening results, these programs also can identify apparent high-risk subgroups that warrant further evaluation and appropriate intervention. However, primary prevention through general control of occupational exposure to coal mine dust remains essential for preventing CWP. To reduce the risk for lung disease among coal miners, MSHA has initiated rule-making efforts to ensure adherence to the current 2 mg/m³ or applicable respirable dust standard for underground coal mines during every work shift (8). NIOSH has recommended that MSHA lower the permissible exposure limit for respirable coal mine dust from 2 mg/m³ to 1 mg/m³ (9,10).

References

1. Federal Coal Mine Health and Safety Act. Public Law no. 91–173 (1969).
2. U.S. Code of Federal Regulations. Title 42. Chapter I. Part 37. Available at http://www.access.gpo.gov/nara/cfr/waisidx_01/42cfr37_01.html.
3. International Labour Office. Guidelines for the use of ILO International Classification of Radiographs of Pneumoconioses. Geneva, Switzerland: International Labour Office, 1980.
4. Wagner GR, Attfield MD, Kennedy RD, Parker JE. The NIOSH B reader certification program—an updated report. *J Occup Med* 1992;34:879–84.
5. Attfield MD, Althouse RB. Surveillance data on US coal miners' pneumoconiosis, 1970 to 1986. *Am J Public Health* 1992;82:971–7.
6. Attfield MD. Prevalence and incidence of coalworkers' pneumoconiosis in U.S. underground miners. In: *Proceedings of the 9th International Symposium of Epidemiology in Occupational Health*. Cincinnati, Ohio: U.S. Department of Health and Human Services, 1994; DHHS publication no. (NIOSH) 94–112.

7. Wagner GR, Attfield MD, Merchant JA. Coal workers' lung diseases. In: Wallace RB, ed. Maxcy-Rosenau-Last Public Health & Preventive Medicine, 14th ed. Stamford, Connecticut: Appleton & Lange, 1998.
8. Mine Safety and Health Administration. Proposed rules: coal mine safety and health. Federal Register, Vol. 68, No.44, March 6, 2003. Available at <http://www.msha.gov/newsinfo.htm>.
9. CDC. Criteria for a recommended standard: occupational exposure to coal mine dust. Washington, DC: U.S. Department of Health and Human Services, Public Health Service, CDC, 1995; DHHS publication no. (NIOSH) 95-106.
10. U.S. Department of Labor. Report of the Secretary of Labor's Advisory Committee on the Elimination of Pneumoconiosis among Coal Mine Workers. Washington, DC: U.S. Department of Labor, 1996.

Preliminary FoodNet Data on the Incidence of Foodborne Illnesses — Selected Sites, United States, 2002

In the United States, an estimated 76 million persons contract foodborne illnesses each year (1). CDC's Emerging Infections Program Foodborne Diseases Active Surveillance Network (FoodNet) collects data on 10 foodborne diseases in nine U.S. sites. FoodNet follows trends in foodborne infections by using laboratory-based surveillance for culture-confirmed illness caused by several enteric pathogens commonly transmitted through food (2). This report describes preliminary surveillance data for 2002 and compares them with 1996–2001 data. The data indicate a sustained decrease in major bacterial foodborne illnesses such as *Campylobacter* and *Listeria*, indicating progress toward meeting the national health objectives of reducing the incidence of foodborne infections by 2010 (objectives 10-1a to 10-1d) (3). However, the data do not indicate a sustained decline in other major foodborne infections such as *Escherichia coli* O157 and *Salmonella*, indicating that increased efforts are needed to reduce further the incidence of foodborne illnesses.

In 1996, FoodNet began active surveillance for laboratory-diagnosed cases of infection with *Campylobacter*, Shiga toxin-producing *E. coli* (STEC) O157, *Listeria monocytogenes*, *Salmonella*, *Shigella*, *Vibrio*, and *Yersinia enterocolitica*. In 1997, FoodNet added surveillance for laboratory-diagnosed cases of *Cryptosporidium parvum*, *Cyclospora cayetanensis*, and cases of hemolytic uremic syndrome (HUS). In 2000, FoodNet began to capture information on non-O157 STEC. From 1996 to 2002, the FoodNet surveillance population increased from five sites and a population of 14.2 million to nine sites and 37.4 million persons (13% of the U.S. population).

To identify cases, FoodNet personnel contact all clinical laboratories in their surveillance area either weekly or monthly

depending on the size of the clinical laboratory. Cases represent the first isolation of a pathogen from a person by a clinical laboratory; the majority of specimens are obtained for diagnostic purposes from ill persons. HUS surveillance is conducted by contacting all FoodNet-identified pediatric nephrologists at least monthly. In this report, analyses of HUS incidence were performed only on children aged <5 years; 94% of these children had a documented history of diarrhea during the 3 weeks preceding diagnosis of HUS. Preliminary incidence for 2002 was calculated by using the number of cases of diagnosed infections or HUS that FoodNet had identified as the numerator and 2002 population estimates as the denominator (4).

2002 Surveillance

During 2002, a total of 16,580 laboratory-diagnosed cases of 10 infections under surveillance were identified: 6,028 of *Salmonella* infection, 5,006 of *Campylobacter*, 3,875 of *Shigella*, 647 of STEC O157 (26 of non-O157 STEC), 541 of *Cryptosporidium*, 166 of *Yersinia*, 103 of *Vibrio*, 101 of *Listeria*, 44 of HUS, and 43 of *Cyclospora*. Among the 5,481 (91%) *Salmonella* isolates serotyped, the three most common serotypes accounted for 49% of the infections: 1,051 (19%) were serotype Typhimurium, 842 (15%) were Enteritidis, and 791 (14%) were Newport. The most common non-O157 STEC serotypes isolated were O26 and O111. Substantial variations in incidence of specific infections, defined as laboratory isolations per 100,000 persons, were reported among the sites (Table).

1996–2002 Comparison

A main effects log-linear Poisson regression model (5) was used to estimate the effect of time on the incidence of the various pathogens, treating calendar year as a categorical variable, with 1996 as the reference year. This model assumed that disease incidence in sites added to surveillance after 1996 changed over time in a way similar to the change that occurred in the original five sites. The relative change in incidence from 1996 to 2002 was estimated, and confidence intervals (CIs) for that change were calculated.

In 2002, the bacterial pathogens with the highest incidence were *Salmonella*, *Campylobacter*, and *Shigella* (Table). From 1996 to 2002, the incidence of infection with several pathogens decreased. For *Campylobacter*, *Listeria*, and *Yersinia*, this decrease was observed consistently over several years (Figure 1). The estimated incidence of *Campylobacter* decreased 24% (95% CI = 32%–16% decrease), *Listeria* decreased 38% (95% CI = 52%–19% decrease), and *Yersinia* decreased 43% (95%



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Advancing HIV Prevention: New Strategies for a Changing Epidemic — United States, 2003

In several U.S. cities, recent outbreaks of primary and secondary syphilis among men who have sex with men (MSM) (1) and increases in newly diagnosed human immunodeficiency virus (HIV) infections among MSM and among heterosexuals have created concern that HIV incidence might be increasing. In addition, declines in HIV morbidity and mortality during the late 1990s attributable to combination antiretroviral therapy appear to have ended. Until now, CDC has mainly targeted its prevention efforts at persons at risk for becoming infected with HIV by providing funding to state and local health departments and nongovernmental community-based organizations (CBOs) for programs aimed at reducing sexual and drug-using risk behavior. Some recent programs have focused on prevention efforts for persons living with HIV (2). Funding HIV-prevention programs for communities heavily affected by HIV has promoted community support for prevention activities. At the same time, these communities recognize the need for new strategies for combating the epidemic. In addition, the recent approval of a simple rapid HIV test in the United States creates an opportunity to overcome some of the traditional barriers to early diagnosis and treatment of infected persons. Therefore, CDC, in partnership with other U.S. Department of Health and Human Services agencies and other government agencies and nongovernment agencies will launch a new initiative in 2003, Advancing HIV Prevention: New Strategies for a Changing Epidemic.

Trends in HIV/AIDS Morbidity and Mortality

The first cases of acquired immunodeficiency syndrome (AIDS) were reported in the United States in June 1981, and the number of cases and deaths among persons with AIDS

increased rapidly during the 1980s. During 1981–2001, an estimated 1.3–1.4 million persons in the United States were infected with HIV (3), and 816,149 cases of AIDS and 467,910 deaths were reported to CDC (4). During the late 1990s, after the introduction of combination antiretroviral therapy, the numbers of new AIDS cases and deaths among adults and adolescents declined substantially. From 1995 to 1998, the annual number of incident AIDS cases declined 38% from 69,242 to 42,832, and deaths from AIDS declined 63% from 51,670 to 18,823. The annual number of incident AIDS cases and deaths have remained stable since 1998, at approximately 40,000 and 16,000, respectively (4). The number of children in whom AIDS attributed to perinatal HIV transmission was diagnosed peaked in 1992 at 954 and declined 89% to 101 in 2001 (4).

Since the early 1990s, an estimated 40,000 new HIV infections have occurred annually in the United States. During 1999–2001, in the 25 states that had HIV reporting since 1994, the number of persons who had HIV infection newly diagnosed increased 14% among MSM and 10% among heterosexuals. The number of persons in the United States living

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Notifiable Disease Morbidity and 122 Cities Mortality Data

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with HIV continues to increase, and of an estimated 850,000–950,000 persons living with HIV, an estimated 180,000–280,000 (25%) persons are unaware of their serostatus (3).

HIV Testing

Many HIV-infected persons do not get tested until late in their infection, and many persons who are tested do not return to learn their test results. In 2000, of an estimated two million CDC-funded tests for HIV, approximately 18,000 tests represented new HIV diagnoses. During 2000, of persons with positive tests for HIV, 31% did not return to learn their test results (CDC, unpublished data, 2000). Of 573 HIV-infected young MSM who were studied in six U.S. cities, 77% were unaware that they were infected (5). During 1994–1999, of 104,780 persons in whom HIV was diagnosed, AIDS was diagnosed in 43,089 (41%) persons within 1 year after their positive HIV test (6).

Reasons for HIV testing vary. In a study of 7,236 persons in whom HIV was newly diagnosed, the reason given most frequently (42%) for seeking the test was illness. Only 10% of HIV-infected men and 17% of HIV-infected women reported that they were tested primarily because the test was offered or recommended by a health-care facility or provider (CDC, unpublished data, 2002).

Many persons who learn that they are HIV infected adopt behaviors that might reduce the risk for transmitting HIV (7). In a study of 1,363 HIV-infected men and women, among the 69% who were sexually active during the preceding 12 months, 78%–96% used a condom at most recent anal or vaginal intercourse with a known HIV-negative partner, and 52%–86% reported condom use with a partner of unknown serostatus (CDC, unpublished data, 2002).

The development of new tests for HIV creates new prospects for expanding HIV testing to identify and treat HIV-infected persons earlier. The OraQuick® HIV rapid test (OraSure Technologies, Inc., Bethlehem, Pennsylvania) was approved by the Food and Drug Administration in November 2002 and categorized as a waived test under the Clinical Laboratory Improvement Amendments in January 2003. This simple, rapid test provides HIV results in 20 minutes, can be stored at room temperature, requires no special equipment, and can be performed outside clinical settings. Although the use of the OraQuick® test facilitates receipt of test results, HIV-positive test results will require confirmation by Western Blot or immunofluorescence assays.

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