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MORBIDITY AND MORTALITY WEEKLY REPORT

Reasons for Tobacco Use and Symptoms of Nicotine Withdrawal Among Adolescent and Young Adult Tobacco Users — United States, 1993

Cigarettes and other forms of tobacco are addictive because of the presence of nicotine (1). Among adults in the United States who have ever smoked daily, 91.3% tried their first cigarette and 77.0% became daily smokers before age 20 years (2). Among high school seniors who had ever tried smokeless tobacco (SLT), 73% did so by the ninth grade (2). To further characterize the development of nicotine addiction among persons aged 10–22 years, CDC analyzed data from the 1993 Teenage Attitudes and Practices Survey (TAPS-II). This report summarizes the results of that analysis and focuses on assessments of reasons for using tobacco and symptoms of nicotine withdrawal.

For TAPS-II, data about knowledge, attitudes, and practices of tobacco use were collected by telephone interviews; persons who could not be contacted by telephone were contacted in person. The TAPS-II sample for this analysis had two components: 1) of the 9135 respondents (aged 12–18 years) to the 1989 TAPS telephone interview*, 7960 (87.1%) participated in TAPS-II (these respondents were aged 15–22 years); and 2) an additional 4992 persons from a new probability sample of 5590 persons aged 10–15 years (89.3% response rate) participated in TAPS-II. Data were weighted to provide national estimates, and 95% confidence intervals (CIs) were calculated using SUDAAN (*3*).

Persons who had smoked cigarettes (n=2121) or who had used SLT (n=470) during the 30 days preceding the survey were asked if they used tobacco because "it relaxes or calms me" and if they used it because "it's really hard to quit" (either answer indicates an influence of the psychopharmacologic properties of nicotine [1]). Smokers who had tried to quit and persons who had quit smoking (n=1925)[†] were asked, "When you quit/tried to quit did you feel a strong need or urge to have a cigarette; feel more irritable; find it hard to concentrate; feel restless; feel hungry more often; feel

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^{*}TAPS respondents who completed the survey by mail questionnaire were not eligible for TAPS-II. TAPS-II included household interviews of persons who did not respond by telephone. [†]Persons who reported that they had never smoked regularly were excluded from these analyses.

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sad, blue, or depressed?" SLT users who had tried to quit and persons who had discontinued use (n=1216) were asked similar questions adapted to SLT use.

Lifetime history of tobacco use was assessed through three categories for cigarette smoking (20 or fewer cigarettes smoked during lifetime, 21–98 cigarettes smoked, and 100 or more cigarettes smoked) and with two categories for SLT use (never used regularly versus ever used regularly). Frequency of use was measured by the number of days on which cigarettes were smoked or SLT was used during the preceding month (0, 1–14, 15–29, or 30 days). Intensity of use was measured by the average number of cigarettes smoked per day during the preceding 7 days (five or fewer, 6–15, or 16 or more) and by the number of times SLT was used on the days it was used (1–2, or three or more).

For persons who had smoked during the preceding 30 days and for those who had used SLT during the preceding 30 days, the frequency of reporting that tobacco was used because it is relaxing or because it is hard to quit increased in relation to increasing lifetime use, frequency of use, and intensity of use (Table 1); this pattern characterized the overall sample and persons in both age categories (10–18 years and 19–22 years). The percentages of persons who reported smoking cigarettes or using SLT for these two reasons also were similar across age groups. Among smokers and SLT users with the greatest lifetime use or intensity of use, the proportions who reported using tobacco to relax were similar to those who reported using it because it was hard to quit. Among those with the lowest lifetime use or frequency or intensity of use, relaxation was more commonly cited as a reason for use than was difficulty quitting. For every category of usage frequency, cigarette smokers were more likely to report use for relaxation than were SLT users. Regardless of age, approximately three fourths of daily cigarette smokers (73.8%) and daily SLT users (74.2%) reported that one of the reasons they used tobacco was because it was hard to quit.

The likelihood of reporting symptoms of nicotine withdrawal increased in relation to frequency (Table 2) and intensity (Figure 1) of use. Younger and older smokers were equally likely to report increasing nicotine withdrawal symptoms as exposure to nicotine increased (Table 2). The same pattern characterized SLT users among both age groups combined (group-specific analyses are not presented because of limitations in sample sizes of persons who used SLT during the preceding 30 days). Among persons aged 10-22 years, those who smoked cigarettes and those who used SLT on a daily basis were equally likely to report symptoms of nicotine withdrawal (with the exception of depression, which was less prevalent among SLT users). Among persons who reported using tobacco on 1-14 days during the preceding 30 days, those who smoked cigarettes were generally more likely to report symptoms of nicotine withdrawal than were persons who used SLT. At least one symptom of nicotine withdrawal was reported by 92.4% of daily cigarette smokers and 93.3% of daily SLT users who had previously tried to guit. Persons who smoked six or more cigarettes per day were more likely than those who smoked five or fewer cigarettes per day to report difficulty concentrating, feeling more irritable, and craving cigarettes during a previous guit attempt; however, among persons who smoked five or fewer cigarettes per day, 28.7% reported difficulty concentrating; 47.5%, feeling more irritable; and 56.9%, craving cigarettes during a previous quit attempt (Figure 1).

| | _ | "It | relaxe | es or calms | me″ | | _ | "[| t's reall | y hard to q | uit″ | |
|---|-------------|------------------------------|--------------|-------------------------|--------------|-------------------------|--------------|-----------------------------|--------------|--------------------|--------------|------------------|
| | 10 |)–18 yrs | 19 | -22 yrs | 10 | –22 yrs | 10 | –18 yrs | 19 | -22 yrs | 10 |)–22 yrs |
| Tobacco product/Use history | % | (95% CI*) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) |
| Cigarettes | | | | | | | | | | | | |
| Lifetime use [†] | | | | | | | | | | | | |
| ≤ 20 cigarettes | 30.5 | (± 7.5) | 18.1 | (±10.0) | 26.9 | (± 6.1) | 8.2 | (± 4.7) | 3.8 | (± 6.1) | 7.0 | (±3.8) |
| 21–98 cigarettes | 48.7 | (± 9.1) | 39.5 | (± 9.8) | 45.0 | (± 6.8) | 21.1 | (± 7.3) | 10.4 | (± 6.0) | 16.7 | (±5.2) |
| ≥100 cigarettes | 66.8 | (± 3.4) | 69.2 | (± 3.0) | 68.1 | (± 2.2) | 63.1 | (± 4.1) | 64.8 | (± 3.3) | 64.1 | (±2.7) |
| Frequency of use§ | | | | | | | | | | | | |
| 1–14 days | 40.6 | (± 5.0) | 37.8 | (± 5.7) | 39.4 | (± 3.8) | 17.7 | (± 4.0) | 18.3 | (± 4.8) | 18.0 | (±3.2) |
| 15–29 days | 60.8 | (± 7.2) | 75.7 | (± 6.6) | 68.2 | (± 5.0) | 50.5 | (± 7.8) | 56.2 | (± 8.2) | 53.4 | (±5.5) |
| 30 days | 73.3 | (± 4.2) | 72.4 | (± 3.7) | 72.8 | (± 2.8) | 74.3 | (± 4.4) | 73.5 | (± 3.3) | 73.8 | (±2.7) |
| Intensity of use¶ | F7 0 | | / 1 F | | FO 1 | (1 2 0) | 20 / | | 247 | (1, 2) | 27.4 | (1 4 1) |
| ≤ 5 cigarettes | 57.3 | (± 5.1) | 61.5 | (± 5.7) | 59.1 | (± 3.8) | 39.6 | (± 5.4) | 34.6 | (± 6.2) | 37.4 | (±4.1) |
| 6–15 cigarettes | 69.7 | (± 5.8) (± 7.0) | 74.4 71.1 | (± 4.8) (± 5.9) | 72.4 72.5 | (± 3.8) | 72.4 82.6 | (± 5.9) | 73.4 78.8 | (± 4.6) | 73.0 80.1 | (±3.7) (±3.9) |
| ≥16 cigarettes | 75.4 | (± 7.0) | / 1. 1 | (± 5.9) | 12.5 | (± 4.4) | 02.0 | (± 6.8) | 10.0 | (± 4.8) | 6U. I | (±3.9) |
| Smokeless tobacco | | | | | | | | | | | | |
| Lifetime use** | 10 F | (1, 2) | 10.2 | (112.0) | 12.0 | | FO | (1 4 2) | 17 | | 2.0 | (120) |
| Never regular user | 10.5 | (± 6.2) | 19.3 | (±12.8) | 13.8 | (± 6.0) | 5.0 | (± 4.2) | 1.7 | (± 2.5) | 3.8 | (±2.9) |
| Ever regular user Frequency of use ^{††} | 43.2 | (± 8.7) | 55.1 | (± 7.3) | 49.7 | (± 6.0) | 47.5 | (± 8.7) | 54.2 | (± 8.1) | 51.2 | (±5.2) |
| 1–14 days | 17.7 | (± 6.8) | 33.4 | (±10.1) | 24.5 | (± 5.6) | 10.0 | (± 5.4) | 12.9 | (± 6.0) | 11.2 | (±4.0) |
| 15–29 days | 41.5 | (± 0.8) (±15.7) | 56.6 | (±10.1) (±15.2) | 24.5 48.5 | (± 5.8) (±11.7) | 31.9 | (± 0.4) (± 14.3) | 38.5 | (± 0.0) (±13.2) | 35.0 | (±4.0) (±9.6) |
| 30 days | 49.4 | (± 13.7) (± 13.4) | 56.8 | (± 13.2) (± 9.4) | 40.5 53.8 | (± 11.7) (± 8.7) | 74.4 | (± 9.6) | 74.0 | (±13.2) (± 9.2) | 74.2 | (± 6.5) |
| Intensity ^{§§} | 47.4 | (±13.4) | 50.0 | (± 7.4) | 55.0 | (± 0.7) | /4.4 | (± 7.0) | 74.0 | (± 7.2) | /4.2 | (±0.5) |
| 1–2 times | 22.3 | (± 7.0) | 39.2 | (± 9.3) | 29.4 | (± 5.9) | 13.3 | (± 5.8) | 15.3 | (± 6.9) | 14.1 | (±4.1) |
| ≥3 times | 43.1 | (±11.0) | 52.9 | (± 9.8) | 48.6 | (± 7.5) | 56.7 | (±10.3) | 61.9 | (± 9.3) | 59.7 | (± 6.3) |

* Confidence interval.

[†]Lifetime number of cigarettes smoked. Sample sizes (n=2042–2047) are for persons aged 10–22 years. Sample sizes for the 10–18-year category and the 19–22-year category are approximately half of the total sample size. Sample sizes vary because of variation in missing values for each item.

[§]Days smoked during preceding 30 days; n=2072-2079.

[¶]Cigarettes smoked per day. Samples (n=1634–1637) exclude persons who smoked during the preceding 30 days but not during the preceding 7 days. **Based on responses to the questions, "Are you now a regular user of chewing tobacco or snuff?" and "Was there ever a time when

you considered yourself to be a regular user of chewing tobacco or snuff?"; n=458-467.

^{††}Days used during preceding 30 days; n=457-466.

§§ Times used per day; n=452-460.

| TABLE 2. Percentage of cigarette smokers and smokeless tobacco users who reported experiencing symptoms of nicotine |
|---|
| withdrawal during previous attempts to discontinue use, by age group and frequency of use — United States, Teenage |
| Attitudes and Practices Survey, 1993 |

| Tobacco user/ | | it hard to centrate | | l hungry re often | | el more ritable | need | trong l/urge to ke/chew | Fee | restless | | sad, blue, epressed | Any | indicator |
|--------------------------------|------|------------------------|------|----------------------|------|--------------------|------|-------------------------------|------|----------|------|------------------------|------|-----------|
| Age group | % | (95% CI*) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) | % | (95% CI) |
| Cigarette smokers [†] | | | | | | | | | | | | | | |
| Frequency§ | | | | | | | | | | | | | | |
| 10–18 yrs (n=943–967) | | | | | | | | | | | | | | |
| 0 | 11.8 | (± 3.3) | 24.4 | (± 4.9) | 21.4 | (± 4.1) | 21.9 | (± 4.7) | 17.0 | (± 4.2) | 9.3 | (±3.1) | 44.4 | (± 5.4) |
| 1–14 | 22.8 | (± 6.6) | 35.4 | (± 7.5) | 36.5 | (± 8.1) | 36.3 | (± 7.8) | 30.3 | (± 7.2) | 17.9 | (±6.0) | 66.0 | (± 7.6) |
| 15–29 | 39.2 | (± 9.5) | 43.0 | (± 9.6) | 55.8 | (± 9.4) | 71.2 | (± 8.7) | 49.9 | (± 9.9) | 24.4 | (±8.2) | 88.1 | (± 6.0) |
| 30 | 46.1 | (± 5.9) | 49.0 | (± 6.6) | 77.0 | (± 5.1) | 81.6 | (± 4.8) | 62.6 | (± 6.0) | 28.6 | (±5.6) | 93.3 | (± 3.3) |
| 19–22 yrs (n=931–951) | | | | | | | | | | | | | | |
| 0 | 14.6 | (± 3.9) | 30.0 | (± 5.3) | 29.2 | (± 4.9) | 28.1 | (± 4.9) | 27.2 | (± 4.8) | 11.7 | (±3.8) | 50.0 | (± 5.5) |
| 1–14 | 16.9 | (± 6.7) | 40.5 | (± 8.6) | 32.5 | (± 8.6) | 43.8 | (± 8.7) | 32.2 | (± 8.6) | 11.5 | (±5.4) | 68.7 | (± 8.2) |
| 15–29 | 26.9 | (± 9.5) | 52.8 | (±10.1) | 49.9 | (±11.0) | 63.4 | (±10.1) | 54.6 | (±10.6) | 18.5 | (±8.2) | 86.0 | (± 7.0) |
| 30 | 47.3 | (± 4.9) | 50.5 | (± 5.1) | 70.9 | (± 4.6) | 78.1 | (± 4.0) | 60.8 | (± 4.9) | 23.1 | (±4.3) | 91.7 | (± 2.8) |
| 10–22 yrs (n=1880–1918) | | | | | | | | | | | | | | |
| 0 | 13.0 | (± 2.3) | 26.8 | (± 3.7) | 24.7 | (± 3.2) | 24.6 | (± 3.4) | 21.3 | (± 3.2) | 10.3 | (±2.4) | 46.8 | (± 4.0) |
| 1–14 | 20.5 | (± 5.0) | 37.4 | (± 5.6) | 35.0 | (± 6.0) | 39.2 | (± 6.0) | 31.0 | (± 5.6) | 15.4 | (±4.2) | 67.0 | (± 5.7) |
| 15–29 | 32.8 | (± 6.6) | 48.0 | (± 7.2) | 52.7 | (± 7.5) | 67.2 | (± 6.9) | 52.4 | (± 7.6) | 21.3 | (±6.0) | 87.0 | (± 5.0) |
| 30 | 46.8 | (± 3.8) | 49.9 | (± 4.2) | 73.5 | (± 3.2) | 79.6 | (± 3.0) | 61.6 | (± 3.8) | 25.5 | (±3.4) | 92.4 | (± 2.1) |
| Smokeless tobacco users | | | | | | | | | | | | | | |
| Frequency¶ | | | | | | | | | | | | | | |
| 10–22 yrs (n=1199–1213) | | | | | | | | | | | | | | |
| 0 | 5.4 | (± 1.6) | 7.7 | (± 1.9) | 8.0 | (± 1.9) | 8.5 | (± 2.0) | 6.0 | (± 1.7) | 3.3 | (±1.2) | 17.6 | (± 2.9) |
| 1–14 | 10.2 | (± 5.3) | 12.4 | (± 6.4) | 8.5 | (± 5.1) | 20.5 | (± 7.6) | 11.2 | (± 5.4) | 3.1 | (±3.5) | 35.4 | (± 8.6) |
| 15–29 | 23.9 | (±11.7) | 48.6 | (±13.0) | 47.1 | (±13.7) | 44.5 | (±13.4) | 34.8 | (±12.7) | 10.5 | (±9.0) | 72.6 | (±12.3) |
| 30 | 41.1 | (±10.0) | 38.9 | (±10.9) | 62.9 | (± 9.6) | 85.4 | (± 7.0) | 55.2 | (±10.3) | 9.0 | (±6.4) | 93.3 | (± 4.2) |

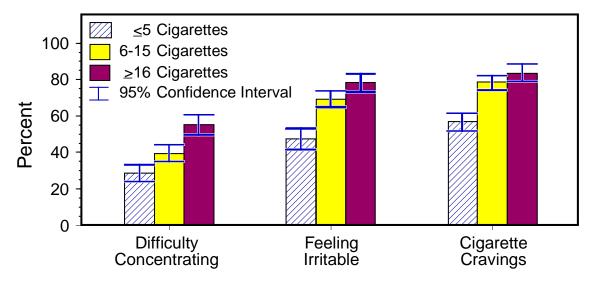
*Confidence interval. [†]Excludes persons who voluntarily reported that they had never smoked regularly. [§]Days smoked during preceding 30 days. Sample sizes vary because of variation in missing values for each item. [¶]Days used during preceding 30 days. Sample sizes vary because of variation in missing values for each item.

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Tobacco Users — Continued

Tobacco Users — Continued

FIGURE 1. Percentage of cigarette smokers* aged 10–22 years who reported experiencing difficulty concentrating, feeling more irritable, and craving cigarettes[†] during previous attempts to quit smoking, by mean number of cigarettes smoked per day — United States, Teenage Attitudes and Practices Survey, 1993



*Persons who smoked during the preceding 7 days. [†]Feeling a strong need or urge to have a cigarette.

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Editorial Note: This analysis of TAPS-II underscores the relation between use of tobacco and reasons for using tobacco—a relation that reflects the psychopharmocologic properties of nicotine. In addition, the frequency of smoking and of using SLT strongly correlated with self-reported symptoms of nicotine withdrawal. These findings are consistent with previous studies that indicated high prevalences of symptoms of nicotine addiction among adolescent and adult smokers (2,4,5).

Previous reports indicate that adolescents initially tried cigarettes for reasons related to social norms, advertising, social pressure, and curiosity (2,6). However, once the behavior becomes established, regular smokers are more likely than beginning smokers to report that they smoke for pleasure and because they are addicted (2,6). Among students who were high school seniors during 1976–1986, a total of 44% of daily smokers believed that in 5 years they would not be smoking; however, follow-up indicated that 5–6 years later, 73% of these persons remained daily smokers (2). This finding suggests that many of these persons could not overcome the social, psychological, and chemical influences that maintain or advance the smoking behavior once it is established (2) and indicates that many adolescents do not understand the personal risks of smoking, including nicotine addiction (7).

The findings in this report are subject to at least two limitations. First, because of small sample sizes, the prevalence of SLT withdrawal symptoms could not be analyzed in relation to lifetime history of cigarette smoking; however, SLT users who tried to quit were probably less likely to experience symptoms of nicotine withdrawal if

Tobacco Users — Continued

they concurrently smoked cigarettes (1). Second, the relation of nonpharmacologic (e.g., social and psychological) influences on tobacco use were not quantified; however, the findings are consistent with previous reports documenting the psychopharmacologic effects of nicotine on tobacco use and tobacco withdrawal (1,2,4).

In 1992, approximately two thirds of adolescent smokers reported that they wanted to quit smoking, and 70% indicated that they would not have started smoking if they could choose again (8). Most adults probably could be prevented from becoming tobacco users if they could be kept tobacco-free during adolescence (2). Four strategies that may assist in supporting tobacco-free adolescence include 1) strict enforcement of the prohibition of sales to minors (sales to persons aged <18 years are illegal in all 50 states), 2) reduction of advertising and promotion practices that stimulate demand, 3) increases in the real (i.e., inflation-adjusted) prices of tobacco products, and 4) school health education programs that are reinforced by media-based and other community programs (2).

The Institute of Medicine recently published recommendations for a comprehensive national strategy to prevent nicotine addiction among youth (9). These recommendations especially address tobacco-free policies; restrictions on tobacco advertising and promotion; tobacco taxation; enforcement of youth access laws; regulation of the labeling, packaging, and contents of tobacco products; further research on nicotine addiction and on prevention and cessation programs; and the coordination of policies and research. Copies of this report can be purchased from National Academy Press, telephone (800) 624-6242 or (202) 334-3313.

References

- 1. CDC. The health consequences of smoking: nicotine addiction—a report of the Surgeon General. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1988; DHHS publication no. (CDC)88-8406.
- 2. US Department of Health and Human Services. Preventing tobacco use among young people: a report of the Surgeon General. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 1994.
- Shah BV, Barnwell BG, Hunt PN, LaVange LM. Software for Survey Data Analysis (SUDAAN) version 5.5 [Software documentation]. Research Triangle Park, North Carolina: Research Triangle Institute, 1991.
- McNeill AD, West RJ, Jarvis M, Jackson P, Bryant A. Cigarette withdrawal symptoms in adolescent smokers. Psychopharmocology 1986;90:533–6.
- 5. Giovino GA, Shelton DM, Schooley MW. Trends in cigarette smoking cessation in the United States. Tobacco Control 1993;2(suppl):S3–S10.
- 6. Sarason IG, Mankowski ES, Peterson AV, Dinh KT. Adolescents' reasons for smoking. J School Health 1992;62:185–90.
- 7. Leventhal H, Glynn K, Fleming R. Is the smoking decision an "informed choice"?: effect of smoking risk factors on smoking beliefs. JAMA 1987;257:3373–6.
- 8. George H. Gallup International Institute. Teen-age attitudes and behavior concerning tobacco: report of the findings. Princeton, New Jersey: George H. Gallup International Institute, 1992.
- 9. Institute of Medicine. Growing up tobacco free: preventing nicotine addiction in children and youths. Washington, DC: National Academy Press, 1994.

Epidemiologic Notes and Reports

Lead-Contaminated Drinking Water in Bulk-Water Storage Tanks — Arizona and California, 1993

Lead poisoning is a major environmental health problem for children in the United States (1,2): during 1988–1991, approximately 1.7 million U.S. children aged 1–5 years had elevated blood lead levels (BLLs) (\geq 10 µg/dL) (3). To determine the source of lead exposure for children with BLLs \geq 20 µg/dL, the Arizona Department of Health Services (ADHS) conducts environmental investigations. In 1993, as a result of investigations of increased BLLs in two children in southwestern Arizona, ADHS detected lead levels approximately 30 times the Environmental Protection Agency (EPA) action level of 15 parts per billion (ppb) in bulk-delivered drinking water in the homes of these children. Because two of the three companies that supplied bulk water to southwestern Arizona were based in California, ADHS notified the California State Department of Health Services (CSDHS) about the problem. As a result, CSDHS conducted a separate investigation and identified one child with an elevated BLL whose drinking water sources included bulk-delivered water with lead levels exceeding EPA standards. This report summarizes the investigations of elevated BLLs in these three children and high lead levels in bulk-delivered drinking water in Arizona and California.

Arizona

In July 1993, routine screening by ADHS for lead poisoning detected a BLL of 42 μ g/dL (CDC BLL of concern=10 μ g/dL) in a 6-month-old infant in Yuma County, Arizona. To determine the source of lead exposure, ADHS initiated an environmental investigation. Lead was not detected in a first-draw water sample from the kitchen faucet, which was connected to a private well. However, the parents reported that the child's formula was prepared using bulk-stored water, and a first-draw water sample taken through the brass fitting of a bulk-water storage tank contained 495 ppb lead. Other potential environmental sources of lead included peeling lead paint on the outside of the house and on one kitchen wall covered with wallpaper. ADHS advised the parents to stop drinking bulk-stored water, informed them about professional paint removal and encapsulation, recommended measures to prevent lead exposure, and notified the water-delivery company about the high lead level in the bulk-stored water.

In August 1993, a BLL of 37 µg/dL was detected in a 12-month-old child in Yuma County who was tested by ADHS for lead poisoning following a complaint of abdominal pain. Lead was not detected in a first-draw water sample from the kitchen faucet, which was connected to the municipal water supply. However, the parents reported that the child's source of drinking water was bulk-delivered water, and a first-draw water sample obtained from a kitchen faucet supplied by a bulk-water storage tank contained 450 ppb lead. The investigation also identified lead-contaminated soil (68 ppm) at a relative's home where the child routinely stayed during the day. ADHS advised the parents to stop drinking bulk-stored water, recommended measures to prevent lead exposure, and notified the water-delivery company about the high lead levels in the bulk-delivered water. Two weeks after the first-draw sample was obtained, lead levels in water taken through the brass fitting on the tank and directly from the tank were 1050 ppb and 602 ppb, respectively.

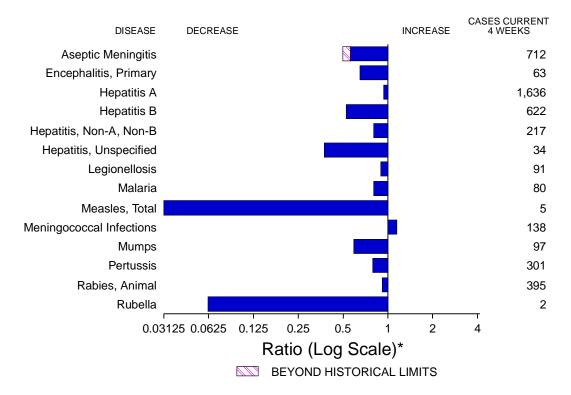


FIGURE I. Notifiable disease reports, comparison of 4-week totals ending October 15, 1994, with historical data — United States

*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.

| | Cum. 1994 | | Cum. 1994 |
|--|-----------|---|-----------|
| AIDS* | 61,173 | Measles: imported | 170 |
| Anthrax | - | indigenous | 681 |
| Botulism: Foodborne | 45 | Plaque | 14 |
| Infant | 51 | Poliomyelitis, Paralytic [§] | 1 |
| Other | 7 | Psittacosis | 29 |
| Brucellosis | 70 | Rabies, human | 1 |
| Cholera | 11 | Syphilis, primary & secondary | 16,867 |
| Congenital rubella syndrome | 3 | Syphilis, congenital, age < 1 year [¶] | 1,123 |
| Diphtheria | 1 | Tetanus | 26 |
| Encephalitis, post-infectious | 91 | Toxic shock syndrome | 147 |
| Gonorrhea | 304,089 | Trichinosis | 29 |
| Haemophilus influenzae (invasive disease) [†] | 915 | Tuberculosis | 17,111 |
| Hansen Disease | 89 | Tularemia | 74 |
| Leptospirosis | 26 | Typhoid fever | 343 |
| Lyme Disease | 8,544 | Typhus fever, tickborne (RMSF) | 359 |

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending October 15, 1994 (41st Week)

*Updated monthly to the Division of HIV/AIDS, National Center for Infectious Diseases; last update September 27, 1994. ¹Of 870 cases of known age, 237 (27%) were reported among children less than 5 years of age. ⁵The remaining 5 suspected cases with onset in 1994 have not yet been confirmed. In 1993, 3 of 10 suspected cases were confirmed. Two of the confirmed cases of 1993 were vaccine-associated and one was classified as imported. ¹Total reported to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services, through counter 1004

through second quarter 1994.

| | 1 | Accentic | Encept | | | lobei | | | /iral), by | - | | | |
|---------------------------|-----------------|-------------------|----------|------------------|------------------|-----------------|----------------|-------------|------------|--------------|--------------------|-----------------|--|
| | AIDS* | Aseptic Menin- | Primary | Post-in- | Gond | orrhea | А | B | NA,NB | Unspeci- | Legionel- losis | Lyme Disease | |
| Reporting Area | Cum. | gitis Cum. | Cum. | fectious Cum. | Cum. | Cum. | Cum. | ь Cum. | Cum. | fied Cum. | Cum. | Cum. | |
| | 1994 | 1994 | 1994 | 1994 | 1994 | 1993 | 1994 | 1994 | 1994 | 1994 | 1994 | 1994 | |
| UNITED STATES | 61,173 | 14,415 | 521 | 91 | 304,089 | 314,297 | 17,707 | 9,034 | 3,382 | 341 | 1,243 | 8,544 | |
| NEW ENGLAND Maine | 2,251 71 | 237 24 | 16 3 | 4 | 6,612 68 | 6,034 70 | 232 21 | 264 11 | 110 | 15 | 65 4 | 2,176 17 | |
| N.H. | 46 29 | 25 | - | 2 | 89 | 43 19 | 14 | 19 | 8 | - | - | 23 | |
| Vt. Mass. | 1,126 | 26 66 | 2 9 | 1 | 26 2,528 | 2,373 | 7 88 | - 162 | 82 | 13 | 50 | 12 190 | |
| R.I. Conn. | 202 777 | 96 | 2 | 1 | 373 3,528 | 341 3,188 | 20 82 | 7 65 | 20 | 2 | 11 | 347 1,587 | |
| MID. ATLANTIC | 18,266 | 693 | 42 | 16 | 34,350 | 35,986 | 1,329 | 1,103 | 375 | 9 | 202 | 5,179 | |
| Upstate N.Y. N.Y. City | 1,722 10,514 | 336 113 | 23 6 | 2 5 | 8,073 12,893 | 7,846 9,906 | 436 535 | 299 257 | 186 1 | 5 | 53 9 | 3,249 21 | |
| N.J. Pa. | 4,205 1,825 | 244 | - 13 | - 9 | 3,828 9,556 | 3,836 14,398 | 224 134 | 285 262 | 158 30 | - 4 | 37 103 | 1,022 887 | |
| E.N. CENTRAL | 4,776 | 1,141 | 132 | 22 | 57,146 | 66,203 | 1,790 | 899 | 249 | 8 | 376 | 81 | |
| Ohio | 870 479 | 302 | 45 | 4 1 | 16,917 | 17,604 | 741 307 | 136 | 20 9 | - | 161 97 | 59 13 | |
| Ind. III. | 2,354 | 163 266 | 10 43 | 5 | 6,923 14,352 | 6,627 22,505 | 356 | 154 184 | 50 | 3 | 21 | 4 | |
| Mich. Wis. | 780 293 | 403 7 | 30 4 | 12 | 13,892 5,062 | 14,180 5,287 | 231 155 | 307 118 | 167 3 | 5 | 68 29 | 5 | |
| W.N. CENTRAL | 1,244 | 325 | 23 | 6 | 16,388 | 17,297 | 883 | 527 | 73 | 10 | 81 | 209 | |
| Minn. Iowa | 300 88 | 20 101 | 2 1 | - 1 | 2,630 1,236 | 1,807 1,259 | 185 54 | 48 24 | 17 9 | 1 9 | 1 28 | 141 13 | |
| Mo. N. Dak. | 566 22 | 125 10 | 7 3 | 4 | 9,474 18 | 10,474 43 | 432 5 | 405 | 25 | - | 28 4 | 36 | |
| S. Dak. | 12 | 2 | 2 | - | 154 | 210 | 31 | 2 | - | - | 1 | - | |
| Nebr. Kans. | 69 187 | 14 53 | 4 4 | 1 | - 2,876 | 484 3,020 | 89 87 | 19 29 | 8 14 | - | 14 5 | 9 10 | |
| S. ATLANTIC | 14,441 | 1,184 | 125 | 27 | 84,266 | 79,757 | 1,152 | 1,888 | 500 | 42 | 288 | 678 | |
| Del. Md. | 213 2,356 | 30 209 | 1 19 | - 4 | 1,543 14,396 | 1,173 12,823 | 16 163 | 4 327 | 1 28 | - 14 | 26 79 | 62 273 | |
| D.C. Va. | 1,089 877 | 47 235 | - 27 | 1 6 | 5,767 10,532 | 3,709 9,400 | 19 142 | 44 104 | 1 21 | - 6 | 9 8 | 7 119 | |
| W. Va. | 54 | 27 | 38 | - | 638 | 504 | 16 | 33 | 24 | - | 3 | 18 | |
| N.C. S.C. | 931 996 | 198 27 | 39 | 1 | 21,998 10,552 | 19,839 8,570 | 111 32 | 226 25 | 51 8 | - | 20 15 | 72 7 | |
| Ga. Fla. | 1,688 6,237 | 47 364 | 1 | - 15 | 137 18,703 | 4,660 19,079 | 24 629 | 523 602 | 168 198 | - 22 | 93 35 | 100 20 | |
| E.S. CENTRAL | 1,606 | 8,647 | 31 | 3 | 36,894 | 36,346 | 470 | 850 | 729 | 2 | 60 | 38 | |
| Ky. Tenn. | 248 539 | 140 8,313 | 14 10 | 1 | 4,031 11,727 | 3,786 11,179 | 125 208 | 63 722 | 23 691 | - 1 | 8 36 | 21 11 | |
| Ala. Miss. | 468 351 | 149 45 | 5 2 | 1 1 | 12,400 8,736 | 13,103 8,278 | 83 54 | 65 | 15 | 1 | 12 4 | 6 | |
| W.S. CENTRAL | 5,837 | 680 | 44 | 2 | 37,936 | 35,515 | 2,595 | 1,213 | 464 | 64 | 36 | 102 | |
| Ark. La. | 206 995 | 38 30 | -7 | - | 5,232 9,671 | 5,594 9,518 | 157 128 | 22 142 | 7 145 | 1 1 | 7 12 | 8 1 | |
| Okla. | 215 | - | - | - | 3,001 | 3,753 | 278 | 271 | 254 | 1 | 11 | 56 | |
| Tex. MOUNTAIN | 4,421 1,751 | 612 264 | 37 10 | 2 3 | 20,032 6,797 | 16,650 9,035 | 2,032 3,305 | 778 505 | 58 356 | 61 49 | 6 69 | 37 16 | |
| Mont. | 19 49 | 7 | - | - | 72 69 | 64 | 18 | 21 | 11 64 | - 1 | 14 1 | - 3 | |
| Idaho Wyo. | 16 | 4 | 2 | 2 | 67 | 147 67 | 276 25 | 67 22 | 135 | 1 | 4 | 3 | |
| Colo. N. Mex. | 658 123 | 100 15 | 2 | - | 2,494 824 | 3,012 743 | 432 911 | 82 174 | 55 45 | 14 11 | 15 3 | - 8 | |
| Ariz. | 493 | 50 | - 2 | - 1 | 2,470 | 3,182 | 1,046 | 35 | 11 | 11 3 | 7 | - 1 | |
| Utah Nev. | 102 291 | 46 37 | 4 | - | 189 612 | 350 1,470 | 407 190 | 58 46 | 22 13 | 3 9 | 6 19 | 1 | |
| PACIFIC Wash. | 11,001 730 | 1,244 | 98 | 8 | 23,700 2,396 | 28,124 3,002 | 5,951 283 | 1,785 59 | 526 54 | 142 2 | 66 6 | 65 | |
| Oreg. | 486 | - | - | - | 570 | 951 | 504 | 55 | 16 | 1 | - | - | |
| Calif. Alaska | 9,604 34 | 1,127 17 | 95 3 | 7 - | 19,524 686 | 23,194 501 | 4,940 176 | 1,635 10 | 451 - | 136 | 57 | 65 | |
| Hawaii | 147 | 100 | - | 1 | 524 | 476 | 48 | 26 | 5 | 3 | 3 | - | |
| Guam P.R. | 1 1,759 | 16 27 | - 1 | - 3 | 179 357 | 81 391 | 42 57 | 6 292 | - 119 | 12 11 | 3 | - | |
| V.I. Amer. Samoa | 39 | - | - | - | 25 25 | 79 39 | - 7 | 1 | - | - | - | - | |
| C.N.M.I. | - | - | - | - | 41 | 71 | 6 | 1 | - | - | - | - | |

TABLE II. Cases of selected notifiable diseases, United States, weeks ending October 15, 1994, and October 16, 1993 (41st Week)

N: Not notifiable U: Unavailable C.N.M.I.: Commonwealth of Northern Mariana Islands

*Updated monthly to the Division of HIV/AIDS, National Center for Infectious Diseases; last update September 27, 1994.

| | | | Measle | | | | Menin- | - | | | | - | | | |
|-------------------------------|--------------|--------|--------------|--------|--------------|--------------|------------------------|--------|--------------|---------|--------------|--------------|--------|--------------|--------------|
| Reporting Area | Malaria | Indig | enous | | orted* | Total | gococcal Infections | Mu | mps | | Pertussi | s | | Rubella | a |
| | Cum. 1994 | 1994 | Cum. 1994 | 1994 | Cum. 1994 | Cum. 1993 | Cum. 1994 | 1994 | Cum. 1994 | 1994 | Cum. 1994 | Cum. 1993 | 1994 | Cum. 1994 | Cum. 1993 |
| UNITED STATES | 838 | 4 | 681 | - | 170 | 272 | 2,085 | 31 | 1,117 | 65 | 2,660 | 4,833 | - | 210 | 168 |
| NEW ENGLAND | | - | 14 | | 14 | 62 | 108 | - | 18 | 7 | 303 | 616 | - | 128 | 2 |
| Maine N.H. | 4 3 | - | 1 1 | - | 4 | 1 2 | 19 6 | - | 3 4 | 3 | 18 53 | 15 141 | - | - | 1 |
| Vt. Mass. | 3 29 | - | 2 2 | | 1 6 | 31 18 | 2 45 | | - 2 | 4 | 40 156 | 71 318 | | - 124 | - 1 |
| R.I. | 8 | - | 4 | - | 3 | 1 | - | - | 2 | - | 5 | 7 | - | 2 | - |
| Conn. | 19 | - | 4 | - | - | 9 | 36 | - | 7 | - | 31 | 64 | - | 2 | - |
| MID. ATLANTIC Upstate N.Y. | 160 42 | - | 166 12 | - | 23 3 | 21 5 | 208 77 | - | 87 24 | 2 2 | 459 196 | 732 237 | - | 9 6 | 58 16 |
| N.Y. City N.J. | 60 35 | - | 11 139 | - | 3 14 | 7 9 | 11 50 | - | 11 6 | - | 82 10 | 57 72 | - | 1 2 | 22 15 |
| Pa. | 23 | - | 4 | - | 3 | - | 70 | - | 46 | - | 171 | 366 | - | - | 5 |
| E.N. CENTRAL | 91 | - | 59 | - | 43 | 30 | 329 | 4 | 181 | 4 | 337 | 1,203 | - | 11 | 7 |
| Ohio Ind. | 15 14 | - | 15 | - | 2 1 | 9 1 | 93 57 | 2 | 53 7 | 2 2 | 123 53 | 318 105 | - | - | 1 2 |
| III. Mich. | 38 22 | - | 17 24 | - | 39 1 | 9 6 | 101 46 | - 2 | 80 37 | - | 76 36 | 380 84 | - | 3 8 | 1 2 |
| Wis. | 22 | - | 24 | - | - | 5 | 40 32 | - | 4 | - | 30 49 | 316 | - | 0 - | 2 |
| W.N. CENTRAL | 38 | - | 126 | - | 44 | 3 | 145 | 2 | 58 | 1 | 144 | 449 | - | 2 | 1 |
| Minn. Iowa | 12 5 | - | - 6 | - | - 1 | - | 11 18 | - 2 | 5 15 | - | 51 17 | 252 35 | - | - | - |
| Mo. N. Dak. | 12 1 | - | 118 | - | 42 | 1 | 78 1 | - | 31 5 | - | 39 4 | 121 5 | - | 2 | 1 |
| S. Dak. | - | - | - | - | - | - | 8 | - | - | 1 | 16 | 8 | - | - | - |
| Nebr. Kans. | 3 5 | U | 1 1 | U | 1 | - 2 | 9 20 | U | 2 | U | 7 10 | 12 16 | U | - | - |
| S. ATLANTIC | 186 | 3 | 57 | - | 8 | 28 | 358 | 4 | 161 | 10 | 244 | 472 | - | 11 | 6 |
| Del. Md. | 3 93 | - | - 2 | | - 2 | - 4 | 5 33 | - 3 | - 54 | - 2 | 2 68 | 9 110 | - | - | - 2 |
| D.C. | 12 | - | - | - | - | - | 4 | - | - | 2 | 9 | 12 | - | - | - |
| Va. W. Va. | 27 | - | 1 36 | - | 2 | 4 | 58 12 | - | 38 3 | 5 | 35 4 | 52 8 | - | - | - |
| N.C. S.C. | 10 4 | - | 2 | - | 1 | - | 44 22 | - | 35 7 | - | 58 13 | 90 64 | - | - | - |
| Ga. | 20 | - | 2 | - | - | - | 66 | - | 8 | - | 22 | 50 | - | 2 | - |
| Fla. | 17 | 3 | 14 | - | 3 | 20 | 114 | 1 | 16 | 1 | 33 | 77 | - | 9 | 4 |
| E.S. CENTRAL Ky. | 29 10 | - | 28 | - | - | 1 | 122 34 | 1 - | 19 - | - | 114 58 | 261 35 | - | - | - |
| Tenn. Ala. | 9 9 | - | 28 | - | - | - | 27 61 | - | 7 5 | - | 18 31 | 160 56 | - | - | - |
| Miss. | 1 | - | - | - | - | - | - | 1 | 7 | - | 7 | 10 | - | - | - |
| W.S. CENTRAL | 39 | 1 | 10 | - | 7 | 10 | 260 | 2 | 216 | 27 | 178 | 131 | - | 13 | 17 |
| Ark. La. | 3 7 | - | - | - | 1 1 | - 1 | 39 29 | - 1 | 1 24 | 5 | 27 10 | 10 9 | - | - | - 1 |
| Okla. Tex. | 6 23 | - 1 | - 10 | - | - 5 | - 9 | 27 165 | - 1 | 23 168 | 2 20 | 24 117 | 70 42 | - | 4 9 | 1 15 |
| MOUNTAIN | 26 | - | 149 | - | 17 | 6 | 134 | 14 | 138 | 20 | 320 | 354 | - | 6 | 11 |
| Mont. Idaho | - | - | - | - | - | - | 6 | - | - 7 | 1 | 7 | 7 | - | - | - |
| Wyo. | 2 1 | - | 1 | - | - | - | 15 7 | - | 2 | - | 45 | 90 1 | - | - | 2 |
| Colo. N. Mex. | 11 3 | - | 16 | : | 3 | 3 | 27 13 | N | 3 N | - | 109 20 | 139 36 | - | - 1 | 2 |
| Ariz. | 3 | - | 1 | - | 1 | 2 | 42 | 3 | 89 | - | 116 | 50 | - | - | 2 |
| Utah Nev. | 4 2 | - | 131 | - | 2 11 | - 1 | 19 5 | 11 | 23 13 | - 1 | 20 3 | 27 4 | - | 4 1 | 4 1 |
| PACIFIC Wash. | 203 9 | - | 72 | - | 14 | 111 | 421 27 | 4 1 | 239 7 | 12 | 561 29 | 615 60 | - | 30 | 66 |
| Oreg. Calif. | 11 165 | - | - 56 | - | 1 9 | 4 85 | 74 312 | N 2 | N 212 | - 11 | 38 476 | 51 493 | - | 2 23 | - 37 |
| Alaska | 2 | - | 16 | - | - | 2 | 2 | - | 3 | - | 1 | 5 | - | 1 | 1 |
| Hawaii | 16 | - | - | - | 4 | 20 | 6 | 1 | 17 | 1 | 17 | 6 | - | 4 | 28 |
| Guam P.R. | 3 2 | U - | 211 13 | U - | - | 2 347 | 1 15 | U - | 4 2 | U - | 2 1 | - 6 | U - | 1 | - |
| V.I. Amer. Samoa | - | - | - | - | - | - | - | - | 1 1 | - | - 2 | - 2 | - | - | - |
| C.N.M.I. | 1 | U | 26 | U | - | 1 | - | U | 2 | U | - | 1 | U | - | - |

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending
October 15, 1994, and October 16, 1993 (41st Week)

*For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable [†] International [§] Out-of-state

| Reporting Area | | philis Secondary) | Toxic- Shock Syndrome | Tuber | culosis | Tula- remia | Typhoid Fever | Typhus Fever (Tick-borne) (RMSF) | Rabies, Animal |
|-------------------------------|--------------|----------------------|-----------------------------|--------------|--------------|----------------|------------------|--|-------------------|
| 1 3 | Cum. 1994 | Cum. 1993 | Cum. 1994 | Cum. 1994 | Cum. 1993 | Cum. 1994 | Cum. 1994 | Cum. 1994 | Cum. 1994 |
| UNITED STATES | 16,867 | 21,067 | 147 | 17,111 | 17,752 | 74 | 343 | 359 | 4,934 |
| NEW ENGLAND | 171 | 265 | 4 | 394 | 401 | 1 | 22 | 16 | 1,479 |
| Maine N.H. | 4 3 | 5 22 | 1 | 23 14 | 19 15 | - | - | - | - 119 |
| Vt. | - | 1 | 1 | 6 | 5 | - | - | - | 112 |
| Mass. R.I. | 76 12 | 111 11 | 2 | 205 35 | 220 48 | 1 | 18 1 | 8 | 567 44 |
| Conn. | 76 | 115 | - | 111 | 94 | - | 3 | 8 | 637 |
| MID. ATLANTIC Upstate N.Y. | 1,090 141 | 1,840 181 | 24 14 | 3,364 253 | 3,715 554 | 1 1 | 92 10 | 16 6 | 620 207 |
| N.Y. City | 496 | 881 | - | 2,053 | 2,182 | - | 61 | 1 | - |
| N.J. Pa. | 163 290 | 245 533 | - 10 | 620 438 | 445 534 | - | 17 4 | 3 6 | 220 193 |
| E.N. CENTRAL | 2,220 | 3,410 | 30 | 1,658 | 1,792 | 8 | 66 | 41 | 51 |
| Ohio | 916 | 899 | 9 | 276 | 252 | 1 | 7 | 24 | 4 |
| Ind. III. | 199 615 | 296 1,325 | 2 9 | 154 828 | 174 938 | 2 3 | 7 40 | 5 10 | 12 15 |
| Mich. | 232 | 472 | 10 | 354 | 359 | 1 | 5 | 2 | 12 |
| Wis. | 258 | 418 | - | 46 | 69 | 1 | 7 | - | 8 |
| W.N. CENTRAL Minn. | 946 40 | 1,353 54 | 22 1 | 446 100 | 390 50 | 32 1 | 1 | 32 | 167 13 |
| lowa | 50 | 57 | 8 | 46 | 40 | - | - | - 1 | 70 |
| Mo. | 804 | 1,124 4 | 6 | 197 7 | 204 | 21 | 1 | 14 | 16 9 |
| N. Dak. S. Dak. | - | 4 | 1 | 21 | 6 12 | - 1 | - | 13 | 29 |
| Nebr. | - 52 | 10 | 2 4 | 18 57 | 21 57 | 2 7 | - | 1 3 | - 30 |
| Kans. S. ATLANTIC | 4,892 | 102 5,322 | 4 | 3,177 | 3,573 | 2 | 44 | 168 | 30 1,577 |
| Del. | 22 | 90 | - | 26 | 3,573 | - | 1 | - | 41 |
| Md. D.C. | 239 179 | 295 273 | - | 259 98 | 305 136 | 1 | 12 1 | 20 | 433 |
| Va. | 639 | 514 | - 1 | 255 | 356 | - | 8 | 16 | 2 324 |
| W. Va. N.C. | 8 1,348 | 11 1,507 | - 1 | 62 383 | 61 424 | - | - | 2 58 | 61 135 |
| S.C. | 643 | 779 | - | 294 | 321 | - | - | 15 | 147 |
| Ga. Fla. | 1,196 618 | 875 978 | 1 4 | 606 1,194 | 591 1,341 | 1 | 2 20 | 54 3 | 304 130 |
| E.S. CENTRAL | 3,081 | 3,232 | 4 | 1,086 | 1,341 | 1 | 20 | 29 | 155 |
| Ky. | 172 | 267 | 2 | 257 | 298 | 1 | 1 | 8 | 18 |
| Tenn. Ala. | 822 541 | 932 668 | 2 | 322 346 | 391 393 | - | 1 | 15 2 | 34 103 |
| Miss. | 1,546 | 1,365 | - | 161 | 205 | - | - | 4 | - |
| W.S. CENTRAL | 3,657 | 4,452 | 1 | 2,384 | 2,099 | 17 | 13 | 43 | 548 |
| Ark. La. | 388 1,408 | 450 2,049 | - | 224 137 | 158 200 | 16 | - 3 | 7 | 25 62 |
| Okla. | 100 | 243 | 1 | 216 | 125 | 1 | 2 | 29 | 31 |
| Tex. | 1,761 | 1,710 | - | 1,807 | 1,616 | - | 8 | 7 | 430 |
| MOUNTAIN Mont. | 193 4 | 200 1 | 7 | 387 9 | 428 13 | 9 3 | 9 | 14 4 | 115 15 |
| Idaho | 1 | - | 1 | 11 | 10 | - | - | - | 3 |
| Wyo. Colo. | 1 105 | 7 63 | - 4 | 8 21 | 4 64 | - 1 | - 3 | 2 4 | 17 10 |
| N. Mex. | 18 | 24 | - | 43 | 46 | 1 | 1 | 2 | 6 |
| Ariz. Utah | 33 8 | 82 9 | - 2 | 180 38 | 181 25 | - 2 | 1 2 | 1 | 41 14 |
| Nev. | 23 | 14 | - | 77 | 85 | 2 | 2 | 1 | 9 |
| PACIFIC | 617 | 993 | 48 | 4,215 | 4,067 | 3 | 94 | - | 222 |
| Wash. Oreg. | 29 21 | 49 37 | 2 | 215 90 | 203 | - 2 | 3 4 | - | - 9 |
| Calif. | 561 | 893 | 43 | 3,663 | 3,612 | - | 83 | - | 183 |
| Alaska Hawaii | 4 2 | 8 6 | - 3 | 43 204 | 48 204 | 1 | - 4 | - | 30 |
| Guam | 9 | 3 | - | 142 | 48 | - | 1 | - | - |
| P.R. | 235 | 412 | - | 137 | 165 | - | - | - | 55 |
| V.I. Amer. Samoa | 25 1 | 37 | - | - 4 | 2 4 | - | - 1 | - | - |
| | 2 | 3 | | 31 | 29 | | | | |

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending
October 15, 1994, and October 16, 1993 (41st Week)

U: Unavailable

| | A | All Cau | ses, By | / Age (Y | 'ears) | | P&l [†] | | | All Cau | ses, 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, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. | 44 31 5 42 22 | 381 99 21 15 26 33 22 10 19 25 25 5 33 14 | 92 31 45 33 13 4 3 1 11 3 - 6 5 | 53 21 3 2 4 3 1 4 5 2 2 3 | 18 8 - 4 - 2 1 - 1 | 8 3 - - - - - - - - - - - - - - - - - - | 29 11 2 2 1 3 - 1 2 - 4 | S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del. E.S. CENTRAL | 1,060 142 146 81 124 100 44 U 48 65 122 182 6 719 | 627 88 78 49 81 50 23 U 34 49 75 94 6 450 | 238 31 34 22 28 27 10 U 10 7 26 43 - 133 | 142 18 24 7 8 16 9 U 1 7 17 35 77 | 31 5 7 2 3 3 2 U 3 - 1 5 - 30 | 18 3 1 4 3 - U 2 2 3 - 29 | 46 6 15 5 - 1 U 3 4 3 4 - 33 |
| Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ | 43 2,427 46 30 U 29 19 44 | 34 1,550 34 23 U 16 9 34 | 3 447 6 2 U 3 4 6 | 3 324 5 U 5 2 1 | 2 54 2 - U 3 1 3 | 1 52 3 - U 2 3 | 3 120 4 1 U 3 2 1 | Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville. Tenn. | 106 | 64 36 57 39 122 19 33 80 | 18 9 20 6 35 5 23 17 | 11 4 10 5 24 4 10 9 | 9 2 3 11 1 2 | 4 1 1 18 2 1 2 | 4 3 8 5 - 1 3 9 |
| Jersey City, N.J. New York City, N.Y. Newark, N.J. 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. | 64 | 41 850 29 17 177 36 10 102 15 28 71 22 13 23 | 8 | 7 204 20 7 42 3 2 6 3 3 6 4 2 1 | 3 17 10 11 - - 1 2 - 1 | 5 21 2 1 11 1 1 - 2 - - | 42 3 6 23 7 1 11 3 3 4 1 5 | W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla. | 1,302 62 54 | 774 44 31 23 117 28 50 169 43 73 115 27 54 | 282 12 8 7 48 6 14 72 19 33 36 9 18 | 140 6 12 4 28 2 5 40 8 14 10 1 10 | 54 2 13 2 13 2 13 2 10 1 5 | 49 - 1 - 10 2 6 19 2 2 4 - 3 | 63 3 1 4 2 25 8 - 11 7 |
| E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. | 2,177 52 35 497 161 117 108 224 36 69 136 69 136 33 52 47 72 59 769 116 23 | $\begin{array}{c} 1,338\\ 35\\ 200\\ 114\\ 79\\ 93\\ 125\\ 311\\ 42\\ 6\\ 47\\ 132\\ 49\\ 94\\ 22\\ 35\\ 36\\ 53\\ 47\\ 510\\ 83\\ 15\end{array}$ | 403 8 4 85 223 229 24 56 4 13 5 352 24 7 10 14 7 139 25 5 | 226 5 95 10 8 12 6 28 1 6 28 1 6 2 8 12 7 11 3 2 5 3 2 68 5 1 | 148 2 97 1 3 2 12 - 8 6 1 3 1 4 - 2 34 3 1 | 62 2 1 200 4 4 4 4 3 3 - 2 - 2 - 4 6 - 4 4 - 1 1 2 2 1 1 200 4 4 4 4 3 3 - 2 - - - - - - - - - - - - - - - - | 131 22 16 5 2 4 1 8 19 12 2 4 5 6 1 38 7 4 | MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Dasadena, Calif. Portland, Oreg. Sacramento, Calif. San Joego, Calif. San Jose, Calif. San Jose, Calif. | . 48 121 131 17 183 41 96 108 1,186 8 91 U 60 75 5 U 24 85 144 137 | 582 74 37 85 80 13 143 31 53 66 788 7 56 40 51 40 51 40 51 16 62 91 89 77 98 98 | $\begin{array}{c} 137 \\ 14 \\ 9 \\ 21 \\ 28 \\ 2 \\ 16 \\ 5 \\ 16 \\ 26 \\ 190 \\ 15 \\ 0 \\ 8 \\ 16 \\ 0 \\ 5 \\ 100 \\ 26 \\ 21 \\ 15 \\ 30 \\ 2 \\ 30 \\ 2 \\ 30 \\ 2 \\ 30 \\ 2 \\ 30 \\ 2 \\ 30 \\ 30$ | 79 8 10 17 2 15 2 15 10 130 11 0 6 5 U 1 0 19 13 21 14 5 | 26 2 3 - 2 3 11 2 40 - 6 U 3 - U 1 2 5 7 1 5 - | 20 1 1 3 3 - 7 - 1 4 38 - 3 3 U 1 1 3 - - - - - - - - - - - - - | 48 7 9 5 1 2 8 2 10 4 113 1 8 U 3 4 U 4 7 1 20 6 8 2 10 4 7 12 8 2 10 4 7 11 8 10 4 7 10 8 2 10 4 11 8 2 10 4 11 8 2 10 4 11 8 2 10 4 11 8 2 10 4 11 8 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans. | 30 117 30 | 20 63 20 101 61 68 41 38 | 9 20 4 18 11 23 14 | 17 4 17 4 12 3 5 | 1 13 1 8 - 5 - 2 | 4 1 6 1 2 1 2 | 6 4 10 3 - 4 | Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL | 124 48 96 11,036 [¶] | 73 32 76 7,000 | 2 22 9 10 2,061 | 18 3 4 1,239 | 6 2 2 435 | 5 2 4 294 | 2 3 7 9 621 |

TABLE III. Deaths in 121 U.S. cities,* week ending October 15, 1994 (41st Week)

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. 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 these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. "Total includes unknown ages. U: Unavailable.

Lead-Contaminated Drinking Water — Continued

Because the source of bulk-delivered water for both cases was a California-based water-delivery company, ADHS notified CSDHS about the potential problem of lead-contaminated bulk-delivered water.

California

In November 1993, a newspaper report about lead-contaminated bulk-delivered water prompted parents in Imperial County, California, to have their 14-month-old child screened for lead poisoning by the county health department. A BLL of 15 μ g/dL was detected in the child. The parents reported that the child's drinking water sources were bulk-delivered water and surface water. A first-draw water sample from the kitchen faucet, which was connected to a bulk-water tank supply, contained 66 ppb lead. After running the water for 3 minutes, a second-draw water sample from the same faucet contained 9 ppb lead. A first-draw water sample from the refrigerator faucet, also connected to the bulk storage tank, contained 50 ppb lead. First-draw water samples obtained from two other faucets in the house, which were connected to a surface water supply, had lead levels lower than the detection limit of 5 ppb. No other potential sources of lead exposure were identified. The county health department advised the parents to stop drinking bulk-delivered water and recommended measures to prevent lead exposure.

Investigation of Bulk-Water Sources

ADHS identified three water companies (two based in California and one based in Arizona) that supplied bulk water to southwestern Arizona. ADHS obtained water samples from 96 residential and business storage tanks serviced by the two California water companies; no water samples were obtained from the Arizona company because the company used plastic tanks and fittings. Samples were drawn directly from the tanks, from the brass fittings on the tanks, and from the kitchen sinks. Twenty-two (23%) of the 96 water samples contained lead levels exceeding EPA's action level. Samples from three bulk-water delivery trucks containing the source water for the storage tanks met EPA drinking water standards (i.e., <15 ppb lead).

Both California water companies notified their customers about the possibility of lead leaching from soldered seams and brass fittings in bulk-water storage tanks. In addition, one company identified the sources of lead in its bulk-delivered water: lead solder in tanks manufactured before March 1987, lead-containing brass fittings, and lead solder in household plumbing. The company initiated replacement of all lead-soldered storage tanks and brass fittings and informed homeowners of the probable presence of lead-soldered household plumbing.

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Editorial Note: In southwestern Arizona and southeastern California, bulk water delivered and stored in tanks is not an uncommon source of drinking water. Approximately 2500 residences and businesses in southwestern Arizona and 8500 in Imperial and San Diego counties, California, are served by bulk-delivered water. Although lead in

Lead-Contaminated Drinking Water — Continued

the bulk-delivered water probably contributed to the high BLLs detected in the children described in this report, the role of other potential sources of lead could not be determined.

The Food and Drug Administration (FDA) has proposed a provisional total tolerable intake level of lead for infants and children of 6 μ g daily (4). U.S. residents ingest an estimated 5–11 µg of lead daily (5). On average, lead-containing drinking water is estimated to contribute 10%-20% of the total lead exposure for children in the United States (5). For infants and young children, ingestion of only 0.5 L of water per day with a lead concentration of 450 ppb (450 μ g/L) will result in a daily dose of lead of 225 μ g a level approximately 38 times higher than FDA's total tolerable intake level. The children described in this report ingested daily doses of lead from six to 41 times higher than the total tolerable intake level.

Federal legislation authorizes both FDA and EPA to regulate drinking water (6): the Food, Drug, and Cosmetic Act* empowers FDA to regulate drinking water (including bottled water and water used in food and for processing), and the Safe Drinking Water Act[†] and other statutes enable EPA to regulate public water systems that provide drinking water for human consumption. In 1986, an amendment to the Safe Drinking Water Act[§] prohibited the use of 1) water pipes and pipe fittings with >8% lead and 2) solder and flux with >0.2% lead in public water systems and plumbing (in residential or nonresidential facilities) that provide drinking water for humans and are connected to public water systems (5). Although lead-containing faucets and fittings may comply with the lead restrictions in the Safe Drinking Water Act, lead from these fixtures can leach into the water supply and result in lead levels in drinking water that exceed EPA's action level. To address this concern, guidelines that further limit the amount of lead in plumbing fixtures are being developed by EPA, National Sanitation Foundation International (a nonprofit organization that tests and certifies water products), and the Plumbing Manufacturers Institute.

References

- 1. CDC. Preventing lead poisoning in young children: a statement by the Centers for Disease Control. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, October 21, 1991.
- 2. Committee on Environmental Health, American Academy of Pediatrics. Lead poisoning: from screening to primary prevention. Pediatrics 1993;92:176-83.
- 3. Brody DJ, Pirkle JL, Kramer RA, et al. Blood lead levels in the US population: phase I of the Third National Health and Nutrition Examination Survey (NHANES III, 1988 to 1991). JAMA 1994;272:277-83.
- 4. Food and Drug Administration. Lead-soldered food cans: proposed rule. Federal Register 1993;58;33860-71.
- 5. Bolger PM, Carrington CD, Capar SG, Adams MA. Reductions in dietary lead exposure in the United States. Chemical Speciation Bioavailability 1991;3:31-6.
- 6. US Environmental Protection Agency/Food and Drug Administration. Memorandum of understanding between the EPA and FDA. Federal Register 1979;44:42775-8.

^{*21} U.S.C. 301 et seq. †42 U.S.C. 300 et seq, 1974 ed. §42 U.S.C. 300 et seq, 1986 ed.

Current Trends

Drivers With Repeat Convictions or Arrests for Driving While Impaired — United States

In 1992 (the latest year for which data are available), more than 1.6 million persons in the United States (approximately 1% of licensed drivers) were arrested for driving while impaired (DWI) (1). Persons arrested for DWI are at substantially greater risk for future death in a motor-vehicle crash involving alcohol than those who have not been arrested for DWI, and this risk increases directly in relation to the number of DWI arrests (2). In addition, drivers convicted of DWI are at greater risk of being involved in a fatal crash, regardless of whether they are killed (3). This report summarizes data about convictions and arrests for DWI from state traffic safety officials analyzed by the National Highway Traffic Safety Administration (NHTSA) during 1994.

During May–June 1994, NHTSA contacted the governor's traffic safety representative in each of the 50 states requesting all available data about the proportion of DWI arrests or convictions that involved a repeat DWI offender and the duration for which DWI convictions or arrests are retained in a driver's record. Of the 14 states for which data were available and complete, seven reported data by the number of drivers arrested or convicted for DWI, and seven reported data by the total proportion of DWI arrests or convictions. Only data reported by the number of drivers arrested or convicted for DWI are presented in this analysis.

Five of the seven states reported data about drivers convicted for DWI; in these states, the estimated percentage of drivers with previous DWI convictions ranged from 21% (lowa during 1992) to 48% (New Mexico during 1992) (Table 1). The other two states reported information about drivers arrested for DWI; the estimated percentages of drivers with previous DWI arrests were 26% (Colorado during 1989–91) and 46% (Minnesota during 1993) (Table 1). The percentage of drivers arrested or convicted for DWI with previous convictions or arrests did not vary substantially during the year(s) for which the data were reported. However, the percentages were greater in most of the states that retained driving records for longer periods of time.

Reported by: JC Fell, MS, Office of Alcohol and State Programs, National Highway Traffic Safety Administration. Div of Unintentional Injury Prevention, National Center for Injury Prevention and Control, CDC.

Editorial Note: Motor-vehicle crashes are the leading cause of death in the United States for persons in all age groups from ages 1 through 34 years (4). Approximately 44% of the 40,115 traffic fatalities in 1993 were alcohol-related (5). In 1990, alcohol-related crashes cost \$46.1 billion, including \$5.1 billion in medical expenses (6).

Although state laws have been effective in reducing drinking and driving and deaths associated with alcohol-related crashes (6), the findings in this report indicate that, in those states that provided data, approximately one third of drivers who were arrested or convicted for DWI had previous offenses for alcohol-impaired driving. Although this finding is consistent with previous unpublished reports of state data, it probably underestimates the prevalence of such drivers because convictions or arrests for DWI that occur out-of-state may not be included in a driver's record.

Impaired Driving — Continued

| | | Drive | rs convicted of DW | /1 |
|----------------|-------------------|---------|----------------------|----------|
| | | | Previous conv | victions |
| State | Year(s) | Total | No. | (%) |
| owa | 1992 | 18,000 | 3,780* | (21) |
| Nebraska | 1994 [†] | 146,619 | 38,547§ | (26) |
| New Mexico | 1992 | 11,478 | 5,566 [§] | (48) |
| North Carolina | 1988 | 65,714 | 21,028¶ | (32) |
| Dhio | 1980–93 | 637,678 | 211,280** | (33) |
| | | Drive | rs arrested for DW | I |
| | | | Previous a | rrests |
| State | Year(s) | Total | No. | (%) |
| Colorado | 1989–91 | 99,848 | 26,335†† | (26) |
| Vinnesota | 1993 | 30,717 | 14,034 ^{§§} | (46) |

TABLE 1. Estimated number of drivers convicted or arrested for driving while impaired (DWI), by state and year — United States

*Within 6 years of the most recent conviction.

[†]Drivers convicted as of March 4, 1994.

[§]Within 30 years of the most recent conviction.

Within 7 years of the most recent conviction.

**Within 5 years of the most recent conviction.

^{††}Within 5 years of the most recent arrest.

§§Within 30 years of the most recent arrest.

Because of the limited number of states with available data, the findings in this report may not be representative of all drivers with previous convictions or arrests for DWI. The need for such information underscores the importance for states and localities to develop systems to track DWI offenders (e.g., systems that combine criminal justice records with driver history data).

The risk for repeat arrests for DWI is higher among males and young persons (7); this risk is also higher among persons with histories of numerous traffic violations, a high alcohol concentration at arrest, and histories of alcohol problems (7). For example, of 461 drivers convicted of DWI in New York City during 1983–84, approximately 73% had histories of serious alcohol problems (8).

In addition to the influence of the risk factors, the percentage of drivers with previous convictions or arrests for DWI may reflect the aggressiveness with which states enforce laws against alcohol-impaired driving. Although the annual arrest rate for DWI nationally in 1992 was nine per 1000 licensed drivers (1), the rate varied by state and ranged from three to 22 per 1000 licensed drivers (1). In addition, most repeat arrests for DWI occur within 5 years of the previous arrest date (R. Peck, California Department of Motor Vehicles, unpublished data, 1994).

Effective strategies implemented by states and localities to prevent drinking and driving have included prompt license suspension for persons who drive while intoxicated; enactment of legislation lowering permissible blood alcohol content to 0.08 g/dL for adults and to 0.02 g/dL for drivers aged <21 years; and initiation of public education, community awareness, and media campaigns about the dangers of alcohol-impaired driving (6). Specific measures implemented to prevent repeat convictions and arrests for DWI include mandatory substance-abuse assessment and

Impaired Driving — Continued

treatment, incarceration, and both; house arrest with electronic monitoring; ignition interlocks on vehicles; license plate tags that identify drivers with licenses suspended for DWI; vehicle impoundment or confiscation; fines; and increases in automobile insurance rates (9). The effectiveness of these specific measures must be evaluated further; however, the findings in this report suggest that, to prevent injuries and deaths in alcohol-related crashes, additional and stronger state legislation (e.g., mandatory substance-abuse assessment and treatment) should be directed toward persons arrested for or convicted of DWI.

References

- 1. Federal Bureau of Investigation, US Department of Justice. Uniform crime reports: crime in the United States, 1992. Washington, DC: US Department of Justice, Federal Bureau of Investigation, 1993.
- 2. Brewer RD, Morris PD, Cole T, Watkins S, Patetta MJ, Popkin C. The risk of dying in alcoholrelated automobile crashes among habitual drunk drivers. N Engl J Med 1994;331:513–7.
- 3. Fell JC. Repeat DWI offenders: their involvement in fatal crashes. In: Utzelmann H-D, Berghaus G, Kroj G, eds. Proceedings of the 12th International Conference on Alcohol, Drugs, and Traffic Safety. Cologne, Germany: Verlag TÜV Rheinland, 1993.
- 4. NCHS. Health, United States, 1993. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1994; DHHS publication no. (PHS)94-1232.
- 5. National Highway Traffic Safety Administration, US Department of Transportation. Traffic safety facts, 1993: alcohol. Washington, DC: US Department of Transportation, National Highway Traffic Safety Administration, 1994.
- 6. CDC. Reduction in alcohol-related traffic fatalities—United States, 1990–1992. MMWR 1993; 42:905–9.
- 7. Arstein-Kerslake GW, Peck RC. A typological analysis of California DUI offenders and DUI recidivism correlates. Sacramento, California: California Department of Motor Vehicles, Research and Development Office, 1985.
- 8. Miller BA, Whitney R, Washousky R. Alcoholism diagnoses for convicted drinking drivers referred for alcoholism evaluation. Alcohol Clin Exp Res 1986;10:651–6.
- 9. Popkin CL, Wells-Parker E. A research agenda for the specific deterrence of DWI. Journal of Traffic Medicine 1994;22:1–14.

International Notes

Update: Human Plague — India, 1994

From August 26 through October 18, 1994, a total of 693 suspected bubonic or pneumonic plague cases with positive test results for antibodies to *Yersinia pestis* were reported by India to the World Health Organization (WHO). Cases were reported from five states (Maharashtra [488 cases], Gujarat [77 cases], Karnataka [46 cases], Uttar Pradesh [10 cases], and Madhya Pradesh [4 cases]) and from the federal district of New Delhi (68 cases). Nationwide, 56 fatal plague cases have been reported; no deaths have been reported since October 11.

As of October 19, WHO considered the outbreak to be under control because few new suspected cases had been reported. In addition, WHO continues to recommend no restrictions for travelers visiting India. However, travelers to the city of Surat, Gujarat, or the Beed district, Maharashtra—areas where plague transmission may be

Human Plague — Continued

ongoing—are advised to seek medical attention for any illness that begins within 6 days of departure.

As of October 19, no imported plague cases had been detected in persons in other countries. No plague cases had been reported in U.S. residents in India.

Reported by: World Health Organization, Geneva. Div of Quarantine, National Center for Prevention Svcs; Bacterial Zoonoses Br, Div of Vector-Borne Infectious Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: The reliability of reported data about the plague outbreaks in India is unknown, and criteria for clinical and laboratory confirmation of cases have not been described. However, the most recent data suggest that transmission has been more geographically limited than previously reported (1,2). Studies have been initiated to accurately assess the extent of the outbreaks, their relation to persistent foci of transmission, and the clinical spectrum and epidemiologic features of the illness, including the incidence of person-to-person transmission.

Travelers to India and other plague-endemic countries continue to be at low risk for infection with *Y. pestis.* As of October 19, health officials had identified and evaluated 12 airline passengers who had arrived from India with febrile or other illnesses and who disembarked in the United States. Using similar surveillance protocols, health officials have evaluated 40 travelers in Canada (B. Gushulak, Laboratory Center for Disease Control, Ottawa, personal communication, October 18, 1994) and 27 in the United Kingdom (J. Watson, Public Health Laboratory Service Communicable Disease Surveillance Center, London, personal communication, October 18, 1994); none have been diagnosed with plague.

Suspected human plague cases in international travelers should be reported through state and local health departments to CDC's Division of Quarantine, National Center for Prevention Services, telephone (404) 639-8107 or (404) 639-2888 (nights, Sundays, and holidays).

References

1. CDC. Human plague—India, 1994. MMWR 1994;43:689-91.

2. CDC. Update: human plague—India, 1994. MMWR 1994;43:722-3.

Notice to Readers

Update: Availability of Inactivated Poliovirus Vaccine — United States

The shortage of inactivated poliovirus vaccine (IPV) in the United States earlier this year (1) has been resolved. On September 28, 1994, the Food and Drug Administration announced the release of IPV lots manufactured by Pasteur Merieux Serums & Vaccines, S.A.* (Lyon, France). In addition, IPV (human diploid cell) lots manufactured by Connaught Laboratories, Limited (Willowdale, Ontario, Canada), were released on October 5, 1994. The release of vaccine lots from both manufacturers, distributed by Connaught Laboratories, Inc. (Swiftwater, Pennsylvania), should quickly restore normal supplies.

^{*}Use of trade names and commercial sources is for information only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

Notice to Readers — Continued

Reference

1. CDC. Limited supplies of inactivated poliovirus vaccine—United States. MMWR 1994;43:595-6.

Notice to Readers

Publication of Summary of Notifiable Diseases — United States, 1993

As part of the *MMWR* series, CDC has released the *Summary of Notifiable Dis*eases, United States, 1993 (1). This publication contains summary tables of the official statistics for the occurrence of notifiable diseases during 1993, which are compiled from reports to CDC's National Notifiable Diseases Surveillance System. Data for 1993 are presented in tables by month, geographic location, and patient age and race/ethnicity and in maps and charts for many conditions. Data for notifiable diseases since 1944 are presented. Also included is a table on deaths associated with specified notifiable diseases reported to CDC's National Center for Health Statistics.

All subscribers to *MMWR* receive the *Summary of Notifiable Diseases, United States, 1993*, as well as the *Recommendations and Reports* and the *CDC Surveillance Summaries*, as part of their subscriptions.

Reference

1. CDC. Summary of notifiable diseases, United States, 1993. MMWR 1994;42(no. 53).

Erratum: Vol. 43, No. 38

In the article "Human Plague—India, 1994," on page 689, in the second paragraph of the editorial note, the first sentence should read "Most human plague is the bubonic form, which results from the bites of infected fleas; however, plague also can be transmitted to humans by handling infected animals or by *direct exposure to large respiratory droplets* from persons with pneumonic plague."

Erratum: Vol. 43, No. 39

In the article "Update: Human Plague—India, 1994", on page 723, in the second paragraph of the editorial note, the fourth sentence should read "Under *federal for-eign quarantine* regulations (2), air passengers who have an illness suspected to be plague (i.e., based on clinical presentation and travel history) during a flight or at disembarkation are subject to isolation and transfer to an appropriate diagnostic and treatment facility." The reference cited in the sentence should be "2. Office of the Federal Register. Code of federal regulations: foreign quarantine. Washington, DC: Office of the Federal Register, National Archives and Records Administration, 1993. (42 CFR Part 71)."

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