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MORBIDITY AND MORTALITY WEEKLY REPORT

Violence-Related Attitudes and Behaviors of High School Students — New York City, 1992

Homicide is the leading cause of death among New York City (NYC) youth aged 15–19 years (1) and the second leading cause of death among this age group nationally (2). During the 1980s, the rate of firearm-related homicide increased more rapidly among this age group than did any other cause of death (2). The 1991 national schoolbased Youth Risk Behavior Survey indicated that 26% of students in grades 9–12 reported carrying a weapon at least once during the 30 days preceding the survey (3). To more effectively target violence-prevention programs for youth in NYC, in 1992 the NYC Department of Health (NYCDOH), the NYC Public Schools (NYCPS), and CDC conducted a survey of violence-related attitudes and behaviors among a representative sample of NYC public high school students. This report summarizes the results of the survey.

A self-administered questionnaire was given to a representative sample of 9th– 12th grade students in the NYCPS during June 1992. The sampling frame included all academic, vocational, and alternative NYC public high schools stratified by presence (n=19) or absence (n=96) of a school-based metal detector program. Schools in the metal detector program were visited approximately weekly by a team of security officers with hand-held metal detectors who scanned randomly selected students as they entered the building. Self-reported data were collected from 100% (n=15, three with and 12 without metal detectors) of sampled schools and 67% (n=1399) of sampled students.

During the 1991–92 school year, 36.1% of all 9th–12th grade NYC public school students surveyed reported being threatened with physical harm, and 24.7% were involved in a physical fight anywhere (including home, school, and neighborhood) (Table 1). Overall, 21% of students reported carrying a weapon such as a gun, knife, or club anywhere 1 or more days during the 30 days preceding the survey; 16.1% of students reported carrying a knife or razor; and 7.0% reported carrying a handgun. In comparison, rates for violent and potentially dangerous behaviors were substantially lower inside the school building (being threatened, 14.4%; carrying a weapon, 12.5%;

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Violence-Related Attitudes and Behaviors — Continued

carrying a knife or razor, 10.0%; being involved in a physical fight, 7.7%; and carrying a handgun, 3.7%) and when going to or from school.

Students who attended schools with metal detector programs (18% of students) were as likely as those who attended schools without metal detector programs to have carried a weapon anywhere (21.6% versus 21.2%) but were less likely to have carried a weapon inside the school building (7.8% versus 13.6%) or going to and from school (7.7% versus 15.2%) (Table 2). The decrease in school-related weapon-carrying reflected reductions in the carrying of both knives and handguns. Presence of school-based metal detector programs had no apparent effect on the prevalence of threats and physical fights in any location.

Compared with all 9th–12th grade students, students who were involved in a physical fight in school during the 1991–92 school year were less likely to believe that apologizing (38.1% versus 19.0%) and avoiding or walking away from someone who wants to fight (55.5% versus 35.5%) were effective ways to avoid a physical fight, and they were more likely to believe their families would want them to hit back if someone hit them first (56.9% versus 77.9%) (Table 3). Compared with all 9th–12th grade students, students who carried a weapon inside the school building during the 30 days preceding the survey were more likely to believe that threatening to use a weapon (21.4% versus 43.9%) and carrying a weapon (19.9% versus 47.9%) were effective ways to avoid a physical fight; were more likely to believe their families would want them to defend themselves from attack even if it meant using a weapon (43.6% versus 67.5%); and were more likely to feel safer during a physical fight if they had a knife (29.6% versus 64.2%) or a handgun (26.5% versus 60.5%).

Reported by: C Ginsberg, New York City Dept of Health; L Loffredo, New York City Public Schools. Div of Adolescent and School Health, National Center for Chronic Disease Prevention and Health Promotion; Div of Violence Prevention, National Center for Injury Prevention and Control, CDC.

Editorial Note: The findings in this report indicate that violent behaviors and weaponcarrying among youth are substantial problems in both school and community settings. The rates for physical fighting and weapon-carrying among NYC public high school students reported here are consistent with national surveys (*3*,*4*). The national health objectives for the year 2000 target reductions in homicide rates (objective 7.1), assaultive injuries (objective 7.6), physical fighting (objective 7.9), and weapon-

	To/F	rom school	Ins	ide school	Anywhere		
Behavior	%	(95% CI*)	%	(95% CI)	%	(95% CI)	
Threatened [†]	15.7	(13.1–18.4)	14.4	(10.8–18.0)	36.1	(30.8–41.4)	
Involved in a physical fight [†]	9.2	(6.3–12.1)	7.7	(5.0–10.4)	24.7	(21.5–28.0)	
Carried a weapon [§] Knife or razor Handgun	13.9 10.6 4.1	(11.0–16.8) (8.0–13.1) (3.4– 4.8)	12.5 10.0 3.7	(9.6–15.5) (7.7–12.3) (3.1–4.3)	21.3 16.1 7.0	(17.8–24.7) (13.4–18.9) (5.0– 8.9)	

TABLE 1. Percentage of high school students who were threatened, involved in a physical fight, and/or carried weapons going to or from school, inside the school building, or anywhere — New York City, 1992

*Confidence interval.

[†]At least once during the 1991–92 school year.

§On ≥1 day during the 30 days preceding the survey.

Violence-Related Attitudes and Behaviors — Continued

carrying (objective 7.10) among adolescents and for increasing violence-prevention education and intervention programs in schools (objective 7.16) and communities (objective 7.17) (5). In addition, National Education Goal 6 for the year 2000 is for all schools to be free of drugs and violence and to offer a disciplined environment conducive to learning (6).

This survey of NYC public high school students suggests that violent behaviors reflect the personal attitudes of students and the attitudes students attribute to their families. Reducing the occurrence of violence in schools will require the coordination of school-based violence-prevention programs with community-based organizations, parent groups, teachers, and state and local health and other agencies that serve youth (7). In addition to school-based violence-prevention programs for youth, parents must be taught information and skills to modify the social values, attitudes, and behaviors that foster youth violence in any setting. Violence-related attitudes, behaviors, and injuries should be monitored to guide and evaluate policy and prevention programs.

Approximately one fourth of large urban school districts in the United States use metal detectors to help reduce weapon-carrying in schools (National School Safety Center, unpublished data, 1991). The findings in NYC suggest that school-based metal detector programs may help reduce, but not eliminate, weapon-carrying in schools and to and from schools. It is unknown whether these programs reduced the inci-

	Metal d	etector program (n=243)		etal detector ram (n=1156)
Behavior	%	(95% CI*)	%	(95% CI)
Threatened [†]			24.2	
Anywhere To/From school Inside school	35.7 15.8 15.3	(20.5–50.9) (10.9–20.6) (8.5–22.1)	36.2 15.7 14.2	(30.7–41.7) (12.7–18.7) (10.0–18.4)
Involved in a physical fight [†] Anywhere To/From School Inside school	26.2 9.4 7.5	(14.4–38.0) (6.4–12.3) (0.4–14.5)	24.4 9.1 7.8	(21.5–27.3) (5.6–12.6) (4.9–10.7)
Carried a weapon [§] Anywhere To/From school Inside school	21.6 7.7 7.8	(15.3–28.0) (5.6– 9.9) (6.5– 9.1)	21.2 15.2 13.6	(17.3–25.1) (11.7–18.8) (10.0–17.2)
Carried a knife/razor [§] Anywhere To/From school Inside school	14.1 6.3 5.0	(6.5–21.6) (3.4– 9.2) (2.8– 7.3)	16.6 11.5 11.1	(13.7–19.5) (8.4–14.5) (8.3–13.8)
Carried a handgun [§] Anywhere To/From school Inside school	7.3 1.9 2.1	(0.1–14.5) (0.0– 3.9) (1.1– 3.2)	6.9 4.6 4.0	(5.2– 8.6) (3.8– 5.4) (3.3– 4.7)

TABLE 2. Prevalence among high school students of being threatened, involved in a
physical fight, and carrying weapons to or from school, inside the school building, or
anywhere, by presence or absence of a school-based metal detector program — New
York City, 1992

*Confidence interval.

[†]At least once during the 1991–92 school year.

§On ≥1 day during the 30 days preceding the survey.

Violence-Related Attitudes and Behaviors — Continued

dence of violence-related injury and death in NYC schools and whether respondents from schools with metal detector programs may have been less likely to report weapon-carrying. Metal detector programs alone cannot end youth violence—among NYC public school students, these programs did not reduce nonschool-related weapon-carrying or threats and physical fights in any location. These findings underscore the need for rigorous evaluations of school-based metal detector programs to establish the strengths and limitations of this intervention.

NYCDOH, in collaboration with the NYCPS, other local agencies, parents, and community groups has instituted the "Safe Routes to School/Safe Havens" program in one neighborhood to reduce violence and pedestrian injuries going to and from school. NYCDOH also is piloting a violence-prevention program in collaboration with community-based youth programs. In 1992, the NYCPS instituted peer mediation centers and conflict resolution/negotiation curricula for high school students and is working to implement or expand developmentally appropriate skills-based violenceprevention education for students in kindergarten through 12th grade. Public health, education, justice, and other agencies must combine their efforts to reduce violence among youth.

5	<i>.</i>	3	,	J 1			
Violence-related	in a p	ents involved ohysical fight chool (n=95)		ents who carried apon in school (n=154)	Total student population (n=1399)		
attitudes	%	(95% CI*)	%	(95% CI)	%	(95% CI)	
Effective ways to avoid a physical fight Threaten weapon use [†] Carry a weapon [§] Avoid/Walk away [¶] Apologize**	36.2 35.1 35.5 19.0	(20.2–52.1) (21.5–48.7) (27.4–43.6) (8.1–30.0)	43.9 47.9 43.8 24.5	(31.3–56.6) (41.2–54.5) (34.8–52.9) (16.7–32.2)	21.4 19.9 55.5 38.1	(17.8–25.1) (17.5–22.3) (52.2–58.7) (35.0–41.2)	
Family supports fighting and weapon use in self defense Fighting ^{††} Weapon use ^{§§}	77.9 54.8	(71.0–84.7) (44.4–65.3)	76.7 67.5	(68.9–84.5) (55.1–79.9)	56.9 43.6	(47.3–66.5) (36.6–50.5)	
Feel safer with a weapon during a physical fight Knife ^{¶¶} Handgun***	48.9 50.7	(33.4–64.4) (39.4–62.1)	64.2 60.5	(55.0–73.4) (50.9–70.2)	29.6 26.5	(25.8–33.3) (24.2–28.9)	

TABLE 3. Violence-related attitudes of high school students who were involved in a physical fight in school during the 1991–92 school year or who carried a weapon in school during the 30 days preceding the survey — New York City, 1992

*Confidence interval.

[†]Answered yes to "Threatening to use a weapon is an effective way to avoid a physical fiaht.'

§Answered yes to "Carrying a weapon is an effective way to avoid a physical fight."

Answered yes to "Avoiding or walking away from someone who wants to fight you is an effective way to avoid a physical fight."

** Answered yes to "Apologizing (saying you're sorry) is an effective way to avoid a physical fight."

^{††}Answered yes to "If someone hit me first, my family would want me to hit them back."

§§ Answered yes to "If someone attacked me, my family would want me to defend myself, even if it meant using a weapon."

MAnswered yes to "If I was going to be in a physical fight, I'd feel safer if I had a knife." ***Answered yes to "If I was going to be in a physical fight, I'd feel safer if I had a handgun."

Violence-Related Attitudes and Behaviors — Continued

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Epidemiologic Notes and Reports

Unintentional Carbon Monoxide Poisoning from Indoor Use of Pressure Washers — Iowa, January 1992–January 1993

On January 18, 1993, the Iowa Occupational Health Nurses in Agricultural Communities (OHNAC)* project was notified that an Iowa farmer (index case) had died of carbon monoxide (CO) poisoning while using a gasoline-powered pressure washer a device that produces a high-pressure water spray—to clean his swine farrowing (birthing) barn. OHNAC staff subsequently reviewed hospital records and data from the Sentinel Project Researching Agricultural Injury Notification System (SPRAINS)[†] and identified four other farmers treated since January 1992 for CO poisoning after operating gasoline-powered pressure washers. This report summarizes the investigation of these incidents.

Index Case

On January 15, 1993, a 33-year-old farm owner died while using an 11-horsepower (HP) washer to clean inside a 3420-cubic-foot (ft^3) swine farrowing area within a larger wooden structure. He was working alone, the door was closed, and there was no other ventilation on this cold day (outside temperatures ranged from –7 F to 20 F [–21.7 C to –6.7 C]). An investigation by the local medical examiner's office indicated that, based

^{*}OHNAC is a national prevention program conducted by CDC's National Institute for Occupational Safety and Health (NIOSH) that has placed public health nurses in rural communities and hospitals in 10 states (California, Georgia, Iowa, Kentucky, Maine, Mnnesota, New York, North Carolina, North Dakota, and Ohio) to conduct surveillance of agriculture-related illnesses and injuries that occur among farmers and their family members. These surveillance data are used to assist in reducing the risk for occupational illness and injury in agricultural populations. [†] SPRAINS is a statewide active and passive surveillance system in Iowa funded initially by CDC

and currently maintained by the lowa Department of Public Health. Injury data from lowa farms are analyzed by county of occurrence.

Carbon Monoxide Poisoning — Continued

on the amount of work he had completed, he had been overcome in approximately 30 minutes. His postmortem carboxyhemoglobin (HbCO) level was 75.6% (normal values: $\leq 2\%$ for nonsmokers, $\leq 9\%$ for smokers [1]). He had recently insulated the farrowing room and replaced his electric pressure washer with a gasoline-powered model.

Case 2

On December 30, 1992, a farm owner found his 12-year-old son unconscious near the door of a swine farrowing building (estimated volume: 4480 ft³). The boy had been working alone while using a rented 11-HP gasoline-powered washer for approximately 30 minutes. Because outside temperatures had ranged from -2 F to 30 F (-18.9 C to -1.1 C), the washer had been placed inside the building approximately 5 feet from the door. His HbCO level was 50% at the time of initial medical treatment. He required mechanical ventilation and received hyperbaric oxygen therapy; he was discharged following an 8-day hospitalization.

Case 3

On November 3, 1992, a 35-year-old farm owner was found by her husband to have extreme weakness, confusion, and slurred speech. She had been working alone inside a 4480-ft³ room used for raising calves. During a 7-hour period (most of the time alone) she had intermittently been cleaning the room with a 4-HP gasoline-powered washer. Outside temperatures ranged from 30 F to 34 F (–1.1 C to 1.1 C). She had set the machine inside the building approximately 5 feet from an open doorway. All three doors to the room were open, and an exhaust fan of unreported size was in operation. When found, although obviously confused, she insisted she was only tired. Her HbCO level obtained approximately 90 minutes postexposure was 18.8%. She was treated with oxygen at the local hospital and released.

Case 4

On April 18, 1992, a 32-year-old farm owner was found by her husband in a 5148-ft³ swine farrowing building she had been cleaning. She was confused, weak, dizzy, and nauseated and reported a severe headache and diffuse muscle pain; she subsequently stated she believed she had been unconscious. She had worked alone intermittently for $6\frac{1}{2}$ hours, with three exhaust fans of unreported size and capacity in operation and a 13-HP gasoline-powered washer located in an adjacent room (outside temperatures ranged from 46 F to 69 F [7.8 C to 20.5 C]). CO apparently entered the work area when the door leading to the room containing the washer blew open sometime during the final hour of work. An HbCO level obtained 5 hours postexposure and after 30 minutes of oxygen therapy was 9.2%.

Case 5

On January 2, 1992, a 37-year-old farm owner was found by his wife in their house; he was dizzy, extremely weak, and somewhat confused. He had been working for approximately 30 minutes in an unventilated, 6480-ft³ swine farrowing building (outside temperatures ranged from 28 F to 33 F [–2.2 C to 0.6 C]) using a borrowed 9-HP gasoline-powered washer. His symptoms began while he attempted to refuel the washer, which had been placed inside the building. He crawled to the house, where he

Carbon Monoxide Poisoning — Continued

was found and taken to a hospital, treated with oxygen, and released. An HbCO level obtained 2 hours postexposure was 27.5%.

Investigation by OHNAC

The four surviving persons were interviewed by OHNAC investigators and reported that sudden onset of dizziness, weakness, extreme difficulty walking, and difficulty thinking had inhibited their ability to recognize the hazard, exit the hazardous environment, and seek help. All reported being unaware that the sudden onset of symptoms is characteristic of CO poisoning, that they can be poisoned in a short time, and that CO can remain hazardous in areas with open doors and ventilation fans in operation.

None of the machines involved in these incidents had labels warning of the risk for CO exposure or directing that the equipment not be used indoors, although one engine operator's manual advised that the pressure washer should not be started or run inside a closed area (2). However, none of the four farmers had read the operating manuals; the two who had used rented or borrowed equipment had not been provided with manuals. All machines were reported to be properly maintained at the times of the respective incidents.

Reported by: M Kahler, W Kuhse, LA Wintermeyer, MD, State Epidemiologist, Iowa Dept of Public Health. Surveillance Br, Div of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, CDC.

Editorial Note: CO is an insidious health hazard because it accumulates rapidly (even in seemingly well-ventilated areas), cannot be detected (it is odorless and colorless), and produces weakness and confusion in persons exposed to toxic levels. Because CO absorption is proportionate to respiratory effort, persons engaged in vigorous physical activity—such as during use of a pressure washer—are at increased risk for adverse health effects when exposed to CO (1).

Levels of CO increase rapidly in closed environments and settings with limited ventilation. The average volume of the structures investigated in this report was approximately 150% that of a typical two-car garage. The risk for CO poisoning associated with operation of automobile engines in poorly ventilated spaces is well known; however, the findings in this report underscore the hazards of CO exposure when smaller gasoline-powered engines are operated inside buildings. Based on data collected in the field investigations, it is estimated that a 3-11-HP pressure washer operated in a 4700-ft³ space will produce dangerous CO levels within minutes (CDC, unpublished data, 1993)[§]. In addition, there are no practical means to determine reliably whether ventilation is adequate for safe indoor operation of even small engines. In this report, the three farmers who were working in unventilated buildings had onset of CO toxicity within 30 minutes of exposure, while the two who were working intermittently in spaces with open doors and windows and with exhaust fans in operation were poisoned despite these precautions. Therefore, even brief indoor use of gasoline-powered pressure washers is hazardous, particularly for persons with preexisting cardiac or respiratory conditions (1, 4).

In the United States, 81% of the approximately 243,000 swine farms house swine for farrowing, and pressure washers are used for cleaning on approximately 63% (5,6). Eleven other recent cases of CO poisoning associated with use of gasolinepowered pressure washers have been identified in four states. In Iowa, OHNAC has (Continued on page 785)

[§]The NIOSH recommended exposure limit for CO is 35 parts per million (ppm) (as an 8-hour, time-weighted average), with a ceiling limit of 200 ppm (3).

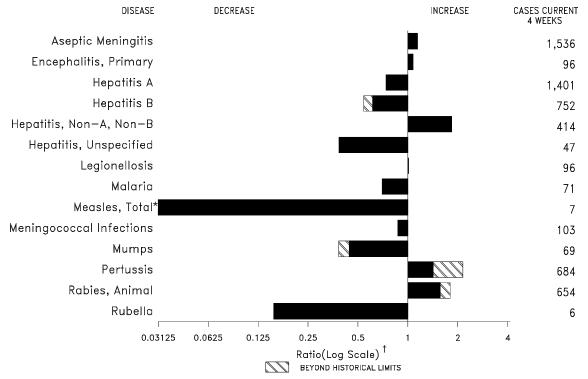


FIGURE I. Notifiable disease reports, comparison of 4-week totals ending October 9, 1993, with historical data — United States

*The large apparent decrease in reported cases of measles(total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week forty is 0.01534).

[†]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 thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

	Cum. 1993		Cum. 1993
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea Haemophilus influenzae (invasive disease) [†] Hansen Disease Leptospirosis Lyme Disease	83,485 13 49 2 69 16 6 137 292,316 913 133 32 5,266	Measles: imported indigenous Plague Poliomyelitis, Paralytic [§] Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year [¶] Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tuberculosis Tularemia Typhoid fever Typhus fever, tickborne (RMSF)	55 203 8 43 1 19,840 1,493 34 183 10 16,185 105 254 381

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending October 9, 1993 (40th Week)

*Updated monthly; last update October 2, 1993. [†]Of 868 cases of known age, 280 (32%) were reported among children less than 5 years of age. [§]Two (2) cases of suspected poliomyelitis have been reported in 1993; 4 of the 5 suspected cases with onset in 1992 were confirmed; the confirmed cases were vaccine associated. [¶]Reports through second quarter of 1993.

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Mich. 1.606 467 37 8 13.334 16.790 166 319 346 7 489 17 WNs 653 38 10 - 4,541 3.379 333 252 34 7 489 7 4 140 Minn. 579 74 7 - 1.857 2.230 356 57 7 8 2 10 8 No. 1.466 175 2 8 9,546 11.722 1.172 359 102 7 1 8 N. Dak. 2 12 3 - 38 59 63 - - - - - - - - - - - - - - - - - - - - - - 34 4 4 4 - 7 35 56 47317 10 10 114 - 7 35 36 67 109 122 13 37 10	Ind.	718	169	16	11	6,123	6,885	508	184	10	1	41	14
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Minn. 579 74 7 - 1,857 2,220 336 57 7 4 1 53 Mo. 1,466 175 2 8 9,546 11,272 1,172 237 8 2 10 8 Mo. 1,466 175 2 8 9,546 11,272 1,717 13 8 - - 1 2 2 3 5 63 - - - 1 2 2 3 - 338 59 63 - - - - 34 4 Kans. 302 165 3 - 1,279 1,371 1 10 13 - 10 13 14 - 7 43 122 S. ATLANTIC 17,732 128 233 - - 12,278 1,28 214 11 - 10 111 24 - 3 3 122 11,12 11 10 11 10 11 10 11 10	Wis.		38		-						-	11	-
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N. Dak. 2 12 3 - 38 59 63 - - - 1 2 Nebr. 164 19 1 - 476 1.297 157 13 8 - 34 4 Kans. 302 165 3 - 0.300 3.807 65 49 14 - 7 35 S. ATLANTIC 17,732 1.964 176 54 78,178 114,104 936 1,738 530 67 169 724 Del. 308 66 3 - 12,752 12,195 122 214 17 5 40 122 D.C. 1,181 33 - - 3,596 4,787 9 35 1 - 34 112 24 - 3 41 N.C. 960 192 24 - - 8,378 8,651 17 40 3 189 9 5 5 1 133 35 1 8 63 </td <td>Iowa</td> <td>159</td> <td>115</td> <td>4</td> <td></td> <td>1,207</td> <td>1,293</td> <td>42</td> <td>27</td> <td>8</td> <td>2</td> <td>10</td> <td>8</td>	Iowa	159	115	4		1,207	1,293	42	27	8	2	10	8
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Va. 1273 238 36 6 9,192 12,909 110 111 129 31 24 . 3 41 N.C. 960 198 22 . 19,361 19,609 61 242 57 . 22 73 S.C. 1,269 24 . . 8,378 8,651 17 40 3 1 18 9 Ga. 2,328 135 1 . 4,660 3,273 72 175 92 1 33 35 Fla. 8,308 1,059 3 48 18,631 20,935 510 760 193 29 24 32 E.S. CENTRAL 2,179 592 28 7 3,710 37,84 219 968 748 2 38 211 Ky. 275 253 9 6 3,712 81 61 1 23 44 1 2 3 Miss. 396 63 11 1 8,077 <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					-								
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Ga.2.3281351-4.66032.973721759213335Fla.8,3081,05934818,63120,935510760193292432E.S. CENTRAL2,17959228734,37037,84521996874823821Ky.275253963,7283,715866310-147Tenn.8971387-10,41511,9445981572411611Ala.6111381-12,15013,11247844123Miss.396631118,0779,03427610-6-W.S. CENTRAL8,4511,02550235,56840,7011,6901,2932471382654Ark.327561-6,7515.88044494232213.3120Tex.6,44889537216,25319,2271,44982246123931MOUNTAIN3,3755552548,5599,8213,133451256645921Mont.2916645112383-69Colo.					-						- 1		
E.S. CENTRAL2,17959228734,37037,84521996874823821Ky.275253963,7283,715866310-147Tenn.8971387-10,41511,9845981572411611Ala.6111381-12,15013,11247844123MISS.396631118,0779,03427610-6-W.S. CENTRAL8,4511,02550235,56840,7011,6901,2932471382654Ark.327561-6,7515,88044494232La.1,028735-9,31811,43665176110331Okla.6,44889537216,25319,2271,44982246123931MOUNTAIN3,3755552548,5599,8213,133451256645921Mont.291603,5507275741357-2Idaho58106445112383-6922222111 </td <td></td> <td></td> <td></td> <td></td> <td>- 18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					- 18								
Ky. 275 253 9 6 3728 3,715 86 63 10 - 14 7 Tenn. 897 138 7 - 10,415 11,944 59 815 724 1 16 11 Miss. 396 63 11 1 8,077 9,034 27 6 10 - 6 - W.S. CENTRAL 8,451 1,025 50 2 35,568 40,701 1,690 1,293 247 138 26 54 Ark. 327 56 1 - 6,751 5,880 44 49 4 2 3 2 La 1,028 73 5 - 9,318 11,436 65 176 110 3 3 1 Mount. 29 - - 1 60 88 62 7 2 - 5 - Idaho 58 10 - - 132 87 131 33 1 2 <td></td>													
Ala. 611 138 1 - 12,150 13,112 47 84 4 1 2 3 Miss. 396 63 11 1 8,077 9,034 27 6 10 - 6 - W.S. CENTRAL 8,451 1,025 50 2 35,568 40,701 1,690 1,293 247 138 26 54 Ark. 1,028 73 5 - 9,318 11,436 65 176 110 3 3 1 Okla. 6,448 895 37 2 16,253 19,227 1,449 822 46 123 9 31 MOUNTAIN 3,375 555 25 4 8,559 9,821 3,133 451 256 64 59 21 Mont. 29 - - 160 88 62 7 2 - 5 - Myo. 33 6 - - 66 45 11 23 83 <	Ky.	275	253	9		3,728	3,715	86	63	10	-	14	7
W.S. CENTRAL $8,451$ $1,025$ 50 2 $35,568$ $40,701$ $1,690$ $1,293$ 247 138 26 54 Ark. 327 56 1 $ 6,751$ $5,880$ 44 49 4 2 3 2 La. $1,028$ 73 5 $ 9,318$ $11,436$ 65 176 110 3 3 1 Okla. 6448 1 7 $ 3,246$ $4,158$ 132 246 87 10 11 20 Tex. $6,448$ 895 37 2 $16,253$ $19,227$ $1,449$ 822 46 123 9 31 MOUNTAIN $3,375$ 555 25 4 $8,559$ $9,821$ $3,133$ 451 256 64 59 21 Mont. 29 $ 1$ 60 88 62 7 2 $ 5$ $-$ Idaho 58 10 $ 132$ 87 173 37 $ 3$ 1 2 Vyo. 33 6 $ 664$ 45 11 23 83 $ 6$ 9 Colo. $1,106$ 175 11 $ 2,600$ $3,550$ 727 57 41 33 12 12 $-$ Ariz. $1,136$ 154 8 $ 3,180$ $3,397$ $1,163$ 73 13 12 12					-								
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Wyo. 33 66645112383-69Colo.1,10617511-2,6903,5507275741357-N. Mex.2671074271172529316480252Ariz.1,1361548-3,1803,3971,16373131212-Utah231381-26827259741241183Nev.51565111,4521,65710749131155PACIFIC17,9582,0011381824,22734,2655,4311,7236291629694Wash.1,337-1-2,9603,1076351851539104Oreg.6801,2251,281752711-22Calif.15,5861,8771321819,16628,9574,0511,4844531507787Alaska58174-47051560789Hawaii2971071-406405631933911Guam-239050			- 10	-	1			62 173	7 37				
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Utah 231 38 1 - 268 272 597 41 24 11 8 3 Nev. 515 65 1 1 1,452 1,657 107 49 13 1 15 5 PACIFIC 17,958 2,001 138 18 24,227 34,265 5,431 1,723 629 162 96 94 Wash. 1,337 - 1 - 2,960 3,107 635 185 153 9 10 4 Oreg. 680 - - 1,225 1,281 75 27 11 - 2 2 Calif. 15,586 1,877 132 18 19,166 28,957 4,051 1,484 453 150 77 87 Alaska 58 17 4 - 470 515 607 8 9 - - - Hawaii 297 107 1 - 406 405 63 19 3 <		267	107	4	2	711	725	293	164	80	2	5	2
Nev. 515 65 1 1 1,452 1,657 107 49 13 1 15 5 PACIFIC 17,958 2,001 138 18 24,227 34,265 5,431 1,723 629 162 96 94 Wash. 1,337 - 1 - 2,960 3,107 635 185 153 9 10 4 Oreg. 680 - - - 1,225 1,281 75 27 11 - - 2 2 Calif. 15,586 1,877 132 18 19,166 28,957 4,051 1,484 453 15 607 7 87 Alaska 58 17 4 - 470 515 607 8 9 - - - Hawaii 297 107 1 - 406 405 63 19 3 3 9					-								- 3
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Alaska 58 17 4 - 470 515 607 8 9 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Oreg.	680	-	-	-	1,225	1,281	75	27	11	-	-	2
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V.I. 40 79 83 - 4 Amer. Samoa 37 35 16		2,338		-	-					- 74		-	-
	V.I.		-	-	-	79	83	-		-	-	-	-
		-	- 3	-	-			- 16	-	-	- 1	-	-

TABLE II. Cases of selected notifiable diseases, United States, weeks endingOctober 9, 1993, and October 3, 1992 (40th Week)

N: Not notifiable U: Unavailable *Updated monthly; last update October 2, 1993.

C.N.M.I.: Commonwealth of Northern Mariana Islands

		-					clober	-1	(,			
			Measle				Menin- gococcal	Мп	mps		Pertussi	s		Rubella	
Reporting Area	Malaria	Indig	enous	Impo	orted*	Total	Infections	Ivia						-	
	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	1993	Cum. 1993	Cum. 1992
UNITED STATES		2	203	1	55	2,172	1,820	19	1,258		4,092	2,196	1	166	140
NEW ENGLAND Maine	68 2	-	57 2	-	5	65 4	100 5	-	8	5	627 19	185 11	-	1 1	6 1
N.H.	6 1	-	2	-	- 1	13	13	-	-	3	241	45 8	-	-	-
Vt. Mass.	34	-	30 14	-	3	21	6 56	-	2	-	67 234	85	-	-	-
R.I. Conn.	2 23	-	- 9	-	1	21 6	1 19	-	2 4	2	6 60	1 35	-	-	4 1
MID. ATLANTIC	124	-	11	-	6	205	214	2	98	54	528	130	-	54	10
Upstate N.Y. N.Y. City	46 24	-	- 5	-	2 2	111 56	96 19	1	34 2	13	215 7	79 11	-	10 22	7
N.J. Pa.	32 22	-	6	-	2	38	34 65	- 1	12 50	- 41	51 255	40	-	16 6	3
E.N. CENTRAL	58	-	16	-	7	60	280	1	192	43	927	445	-	6	9
Ohio Ind.	11 3	-	5 1	-	3	6 20	80 46	-	68 3	32 6	316 99	60 31	-	1 1	-
III.	31	-	5	-	-	17	78	-	46	1	249	39	-	1	8
Mich. Wis.	13	-	5	-	1 3	13 4	47 29	1	60 15	4	77 186	11 304	-	2 1	1
W.N. CENTRAL	24	-	1	-	2	11	118	2	42	2	358	186	-	1	8
Minn. Iowa	5 3	-	-	-	-	10 1	7 24	-	2 8	2	191 30	33 5	-	-	- 3
Mo. N. Dak.	7 2	-	1	-	-	-	45 3	2	25 5	-	101 3	90 13	-	1	1
S. Dak.	2 3	-	-	-	-	-	3	-	- 1	-	8	12	-	-	-
Nebr. Kans.	3	-	-	-	2	-	27	-	1	-	9 16	24	-	-	4
S. ATLANTIC	243 2	-	15 1	1	13	125 1	344 11	1	377 5	31	390 14	122 7	-	9 2	18
Del. Md.	35	-	-	-	4	16	43	-	67	7	115	23	-	2	5
D.C. Va.	11 25	-		- 1 [†]	- 4	- 15	5 38	-	1 25	1	11 52	1 10	-	-	-
W. Va. N.C.	2 95	-	-	-	-	- 24	12 58	-	15 197	- 17	9 71	7 22	-	-	1
S.C.	5	-	-	-	-	29	31	-	15	-	13	10	-	-	7
Ga. Fla.	15 53	-	- 14	-	- 5	3 37	77 69	- 1	14 38	5 1	31 74	14 28	-	- 5	- 5
E.S. CENTRAL	25	-	1	-	-	461	109	-	46	-	253	24	-	1	1
Ky. Tenn.	4 10	-	-	-	-	444	20 28	-	- 13	-	29 158	1 6	-	- 1	- 1
Ala. Miss.	6 5	-	1	-	-	- 17	34 27	-	22 11	-	55 11	14 3	-	-	-
W.S. CENTRAL	21	1	8	-	3	1,102	184	2	180	14	146	197	-	17	7
Ark. La.	3 2	-	- 1	-	-	-	18 34	- 1	4 17	-	10 9	14 8	-	- 1	-
Okla.	4	- 1	- 7	-	- 3	11	25 107	-	11 148	14	85	28	-	1 15	- 7
Tex. MOUNTAIN	12 30	1	, 5	-	3 1	1,091 35	107	7	58	- 11	42 342	147 326	- 1	9	7
Mont. Idaho	2 1	-	-	-	-	-	13 10	-	- 5	-	7 109	4 41	-	2	- 1
Wyo.	-	-	-	-	-	1	2	-	2	-	1	-	-	-	-
Colo. N. Mex.	18 5	-	2	-	1	29 2	27 4	N	16 N	1	112 34	56 83	-	-	1
Ariz. Utah	- 1	1	2	-	-	3	70 11	5	13 4	4	48 27	110 30	-	2 4	2 1
Nev.	3	-	1	-	-	-	7	2	18	1	4	2	-	1	2
PACIFIC Wash.	278 27	-	89 -	-	18 -	108 10	327 61	4	257 10	14 4	521 59	581 175	-	68	74 6
Oreg. Calif.	4 240	-	- 78	-	-7	3 54	22 218	N 3	N 218	1 6	17 427	32 342	-	3 37	1 44
Alaska Hawaii	1 6	-	- 11	-	2 9	9 32	13 13	- 1	8 21	- 3	5 13	12 20	-	1 27	- 23
Guam	1	U	2	U	-	10	1	U	6	U	-	-	U	-	3
P.R. V.I.	-	-	224	-	-	339	8	-	3 4	-	6	12	-	-	-
Amer. Samoa C.N.M.I.	-	U	1	U	-	2	-	U	1 12	U	2 1	6 1	U	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending October 9, 1993, and October 3, 1992 (40th 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		hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	19,840	26,097	183	16,185	17,387	105	254	381	6,882
NEW ENGLAND	292	511	13	394	374 19	-	24	5	1,207
Maine N.H.	4 26	5 35	3 3	30 9	14	-	2	-	92
Vt. Mass.	1 108	1 257	1 5	5 218	6 205	-	- 16	- 5	22 499
R.I. Conn.	12 141	24 189	1	44 88	23 107	-	- 6	-	- 594
MID. ATLANTIC	1,768	3,606	30	3,585	4,128	1	50	26	2,621
Upstate N.Y. N.Y. City	158 859	284 2,032	15 1	331 2,112	557 2,366	1	11 26	6	1,999
N.J.	220	445	-	614	727	-	9	10	343
Pa. E.N. CENTRAL	531 2,816	845 3,871	14 37	528 1,488	478 1,699	-	4 31	10 12	279 93
Ohio	893	621	12	247	245	-	7	8	5
Ind. III.	261 844	212 1,677	1 6	167 651	141 861	1 2	1 16	1 1	9 17
Mich. Wis.	465 353	765 596	18	354 69	386 66	1	6 1	2	16 46
W.N. CENTRAL	1,277	1,177	12	366	411	33	2	- 17	286
Minn.	59 54	75	2	44 40	114	-	-	1	37
Iowa Mo.	1,050	877	2	196	34 183	14	2	о 7	61 16
N. Dak. S. Dak.	1	1	-	5 11	8 18	- 15	-	- 2	51 38
Nebr. Kans.	10 102	24 161	- 3	14 56	16 38	1 3	-	- 1	7 76
S. ATLANTIC	5,214	7,146	22	3,210	3,266	3	40	174	1,627
Del.	88	165	1	38	40	-	1	1	119
Md. D.C.	286 269	498 305	1	301 134	292 89	-	8	10	493 14
Va. W. Va.	504 12	574 15	6	309 61	280 73	-	4	9 6	306 71
N.C. S.C.	1,449 765	1,917 965	3	424 318	434 318	2	2	105 10	80 127
Ga.	875	1,412	2	591	674	-	3	26	368
Fla. E.S. CENTRAL	966 3,109	1,295 3,387	9 9	1,034 1,004	1,066 1,091	1 5	22 7	7 50	49 174
Ky.	263	130	2	285	291	1	2	8	17
Tenn. Ala.	882 653	918 1,189	3 2	145 385	283 322	3 1	2 3	29 4	72 85
Miss.	1,311	1,150	2	189	195	-	-	9	-
W.S. CENTRAL Ark.	4,580 600	4,695 692	2	1,805 148	2,005 152	41 25	4	86 7	451 28
La. Okla.	2,008	1,941 273	2	122	155 118	13	1	1 74	5 57
Tex.	320 1,652	1,789	-	1,535	1,580	3	3	4	361
MOUNTAIN	188	287	11	391	462	12	10	11	151
Mont. Idaho	1	7 1	- 1	15 10	- 18	5	-	1	21 6
Wyo. Colo.	7 54	3 49	- 2	3 32	- 46	3	- 5	9 1	19 25
N. Mex.	24	36	1	46	64	1	2	-	9
Ariz. Utah	82 8	142 8	1 4	181 23	203 64	2	2 1	-	54 4
Nev.	12	41	2	81	67 2.051	1	-	-	13
PACIFIC Wash.	596 49	1,417 71	47 7	3,942 200	3,951 220	6 1	86 6	-	272
Oreg. Calif.	55 478	34 1,300	40	79 3,424	104 3,378	2 3	- 77	-	- 255
Alaska	8	4	-	40	50	-	-	-	17
Hawaii Guam	6 2	8 3	-	199 31	199 58	-	3	-	-
P.R.	402	279	-	185	200	-	-	-	36
V.I. Amer. Samoa	35	54	-	2 2	3	-	- 1	-	-
C.N.M.I.	3	6	-	26	48	-	-	-	-

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending October 9, 1993, and October 3, 1992 (40th Week)

U: Unavailable

	F	All Cau	ises, By	/ Age (Y	/ears)		P&I [†]			All Cau	ises, By	y 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.	633 161 50 24 41 64 29 17 5. 21 33 45 59 26	418 77 36 15 28 40 26 13 13 22 31 6 43 22	7 10 11 3 4 2 6 12 2	54 25 3 3 - 1 4 2 - 7 3	17 4 2 - 8 - 1 - 1 - 1	13 6 - - - - - - - - - - - 2	54 22 4 1 2 1 5 - 7 2	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.	173 434 36	931 900 158 42 66 46 34 53 18 45 118 231 30	306 26 39 17 15 30 5 19 10 10 37 94 4	205 24 29 8 14 24 6 10 2 8 9 70 1	55 6 12 3 5 2 2 1 - 1 5 18 -	43 1 2 1 4 - 3 3 19 1	90 7 25 4 7 1 5 9 2 2 14 14
Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y.	55 2,421 54 25 100 30 19 51 40	41 1,570 33 25 57 12 17 40 255 855 173 45 173 45 888 888 20 24 50 22 16	9 451 14 - 26 7 2 7 8 242 12 12 4	1 272 5 12 6 3 5 167 132 333 3 2 6 3 1 5 6 3 1 5 6	1 69 1 3 1 41 5 - 2 2 1 1 1	3 59 1 2 4 - 1 27 1 8 4 - 27 1 - 8 4 - 21 - 5 3 -	9 116 3 1 3 4 2 1 48 11 17 6 2 9 1 2 4 1	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn. 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.	65 51 127 53 55 116 1,136 59 76	365 59 U 45 29 84 41 44 63 733 34 57 28 130 52 70 U 39 74 130 59	123 25 U 15 7 28 8 32 208 14 12 6 44 6 18 44 6 18 44 0 22 23 3 37 9	43 12 2 6 7 1 1 4 109 10 5 3 2 2 8 U 7 15 85	22 5 U 2 6 3 - 5 5 7 1 2 1 0 4 5 U 9 10 8 4	23 9 0 27 1 - 2 2 29 - 36 1 8 0 2 1 5 2	27 5 U 6 1 7 3 2 3 410 4 2 2 5 4 U 2 - 5 3
Yonkers, N.Y. E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Celeveland, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Kans. Minneapolis, Minn Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	U 2,000 47 24 5622 124 139 U 126 205 46 16 16 152 36 130 55 58 36 89 60 833 755 34 61 100 33	$\begin{array}{c} 1,229\\ 31\\ 16\\ 224\\ 88\\ 78\\ 0\\ 91\\ 126\\ 33\\ 38\\ 10\\ 36\\ 107\\ 22\\ 104\\ 42\\ 104\\ 42\\ 104\\ 42\\ 43\\ 28\\ 66\\ 46\\ 602\\ 58\\ 27\\ 49\\ 71\\ 122\\ 128\\ 58\\ 105\\ 58\\ 105\\ 58\\ 105\\ 39\\ 105\\ 39\\ 105\\ 39\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105$	$\begin{array}{c} U\\ 361\\ 7\\ 4\\ 110\\ 24\\ 34\\ U\\ 21\\ 47\\ 7\\ 8\\ 2\\ 10\\ 25\\ 8\\ 15\\ 7\\ 8\\ 6\\ 11\\ 7\\ 140\\ 13\\ 3\\ 9\\ 13\\ 8\\ 40\\ 14\\ 17\\ 9\end{array}$	U 209 4 2 114 8 13 7 20 3 - 3 2 9 1 5 5 4 5 5 4 5 5 4 5 1 3 10 3 11 11 7 3 2 9 2 9 1 5 5 4 5 4 5 4 5 4 2 9 114 8 13 7 7 20 3 - 3 2 9 11 8 15 7 11 8 15 7 11 8 15 7 10 7 10 8 15 7 10 8 15 7 10 10 10 10 10 10 10 10 10 10 10 10 10	U 136 2 101 - 6 U 3 7 1 - 1 4 1 3 - 1 4 1 22 - 3 - 5 - 3 3 4 22	U 65 3 2 133 4 8 8 U 4 5 1 1 7 7 4 3 3 2 2 3 3 2 18 4 4 - - - 1 7 7 4 3 3 2 2 2 3 3 2 2 1 3 3 2 2 1 3 3 2 1 3 3 2 1 3 5 1 1 5 1 5 1 1 5 1 5 1 5 1 1 5 1 5	U 91 29 19 5 2 U 9 4 6 1 1 8 4 1 13 3 3 4 4 2 40 4 3 6 4 1 10 3 5 2 2 2	Tulsa, Okla. 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. Portland, Oreg. Sacramento, Calif. San Jose, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Tacoma, Wash. TOTAL	b. 30 99 139 34 160 20 87 117 1,648 29 81 25 78 78 79 401 31 31 142 U U 178	60 521 54 21 72 92 25 104 16 56 81 1,095 17 58 18 56 52 236 23 109 U 113 87 108 30 87 40 62 7,464	17 133 14 7 14 35 6 27 2 9 19 282 6 13 5 10 83 3 15 U 36 19 29 27 8 10 36 19 282 6 13 5 10 83 3 15 0 10 83 15 10 29 27 8 10 10 10 10 10 10 10 10 10 10	11 73 6 8 10 20 2 14 10 177 6 7 2 6 11 6 3 2 9 U 22 19 7 1 6 3 3 1,193	3 21 1 2 3 2 - 2 - 6 5 5 2 3 - 2 3 14 - 5 7 - 7 - 3 451	1 16 3 2 2 2 40 - - - - - - - - - - - - -	4 72 5 7 11 3 26 1 9 10 101 6 5 4 9 14 1 5 U 2 12 18 2 4 4 5 6 32

TABLE III. Deaths in 121 U.S. cities,* week ending October 9, 1993 (40th 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.

Carbon Monoxide Poisoning — Continued

identified two cases in 1991 and two cases related to flood clean-up efforts in July 1993. In Kentucky, OHNAC identified one case occurring in April 1993. Finally, as a result of information disseminated by OHNAC programs about this hazard, family members have reported four more cases to OHNAC—one in 1989 in North Carolina and three in Minnesota during 1991–1993.

As demonstrated in this report, farm workers can be poisoned by CO when operating gasoline-powered washers inside buildings. Preventing CO poisoning requires operating any gasoline-powered equipment outdoors at all times. Because pressure washers are used frequently during the winter months when freezing water is a problem, an approach to safe operation under these conditions includes moving the washer indoors when it is not operating and back outdoors before restarting or draining water from the machine when the washer is turned off. Alternative approaches, such as building separate structures to isolate the washer or attaching specially designed hoses to the exhaust pipe, may be inadequate or pose unique hazards (e.g., high CO exposure on entrance into the isolation structure or leaks or breaks in the hose).

In addition to gasoline-powered pressure washers, CO poisonings among persons on farms have been associated with unvented or inadequately vented space heaters and indoor tractor maintenance, underscoring that gasoline engines, irrespective of size, should not be operated indoors. Although warning labels and operator's manuals often advise against operating gasoline-powered equipment without "adequate" ventilation, adequate ventilation cannot be safely determined. Therefore, these labels and manuals should clearly indicate the CO hazard associated with indoor operation and prohibit any indoor use. In addition, equipment owners should ensure that manuals are provided when equipment is rented or borrowed and that operators read and understand these manuals before operation.

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Current Trends

Self-Reported HIV-Antibody Testing Among Persons With Selected Risk Behaviors — Southern Los Angeles County, 1991–1992

Since 1985, the number of human immunodeficiency virus (HIV) tests provided annually through publicly funded counseling and testing (CT) programs has continued to increase, with more than 2 million tests provided in 1991 (1). However, the success of CT programs in reaching persons most at risk for infection and transmission of HIV is unclear. To ensure that resources are used as effectively as possible, CT programs must evaluate their ability to reach persons at highest risk. This report summarizes an assessment of HIV testing among street-recruited injecting-drug users (IDUs), female sex partners of male IDUs, and female prostitutes in southern Los Angeles County in 1991–1992.

From April 1991 through September 1992, anonymous street interviews were conducted in Long Beach, California, and nearby communities as part of activities sponsored by the CDC Acquired Immunodeficiency Syndrome (AIDS) Community Demonstration Projects (2). Interviews were conducted in 127 sites that had been associated with high prevalences of drug abuse, prostitution, or both. Trained interviewers familiar with the community and target groups conducted 7734 brief, preliminary risk assessments in these sites with English-speaking persons aged ≥18 years; of these, 3097 persons were identified who met eligibility criteria for the second portion of the on-street interview that included questions about HIV risk, attitudes, and HIV-testing history. Eligibility was based on self-reported membership in one or more of four target populations (i.e., male IDU, female IDU, female sex partner of male IDUs, and female prostitute) and recent sexual or drug-use behavior (i.e., vaginal or anal intercourse in the previous 30 days or needle sharing in the previous 60 days)*. Participants received \$2 in fast-food certificates for completing the brief risk assessment or \$5 in cash for completing the full interview. Because the interviews were conducted anonymously on the street, repeat interviews (n=704) were identified and excluded from data analysis by using a subset of unique identifiers that retained respondent anonymity (e.g., date of birth, place of birth, ethnicity, and sex).

The statistical relation between CT service use and respondent characteristics were assessed using two methods. First, chi-square tests for general association were used to identify differences in the percentage of persons reporting use of CT services. Second, stepwise logistic regression was used to assess the unique contribution each one of the identified respondent characteristics made to the use of CT services.

Overall, 1709 (71.4%) persons reported having been tested for HIV infection, including 466 (64.9%) of 718 male IDUs and 1243 (74.2%) of 1675 high-risk females. Among male IDUs, HIV-testing history varied by race/ethnicity and sexual orientation, with black and homosexual/bisexual males less likely to have been tested than other male IDUs (Table 1). Among high-risk females, HIV-testing history was related to race/ ethnicity, age, sexual orientation, and HIV risk, with females who were black, aged <30 years, and heterosexual less likely to have been tested (Table 2).

^{*}History of IDU was verified by visual inspection of respondent's arms for needle tracks.

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HIV-Antibody Testing - Continued

When analyzed using stepwise logistic regression, only nonblack race/ethnicity[†] remained significantly related to previous testing of males (odds ratio [OR]=1.5; 95% confidence interval [CI]=1.1–2.1). Nonblack race/ethnicity (OR=2.1; 95% CI=1.6–2.7), history of injecting-drug use (OR=1.9; 95% CI=1.5–2.4), history of prostitution (OR=1.8; 95% CI=1.4–2.4), and having a non-IDU sex partner (OR=1.5; 95% CI=1.1–1.9) were positively associated with females having been tested for HIV.

Overall, 1512 (88.5%) persons reported having obtained their test results, including 88.1% of male IDUs and 88.7% of high-risk females. Among male IDUs, no respondent characteristics were associated with receipt of test results (Table 1). Among females, race/ethnicity was significantly related to receipt of results (p<0.01) (Table 2). Stepwise logistic regression indicated that both nonblack race/ethnicity (OR=2.2; 95% CI=1.5–3.2) and not having an IDU partner (OR=1.5; 95% CI=1.1–2.1) were independently associated with women having received HIV test results.

Reported by: RJ Wolitski, MA, B Radziszewska, PhD, California State Univ, Long Beach. Behavioral and Prevention Research Br, Div of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Svcs, CDC.

Editorial Note: Findings from CDC's 1989 National Health Interview Survey (NHIS) indicated that in the United States, 41.5% of persons at increased risk[§] were tested for

[†]Race/ethnicity was used to form two groups: black (race/ethnicity=black) and nonblack (race/ethnicity=Hispanic, white, or other).

[§]Defined as persons reporting, since 1977, receiving clotting factor concentrates for hemophilia, born in Haiti or Central or East Africa, male homosexual activity, taking illegal drugs by needle, sexual activity with any persons meeting the aforementioned criteria, or having sex for money or drugs.

	Sample	% Total	Hľ	V tested	Rece	ived results
Characteristic	size	sample	%	Chi-square	%	Chi-square
Race/Ethnicity						
Black	444	61.8	60.4	12.5*	88.0	0.6
Hispanic	131	18.2	68.7	—	88.6	—
White	125	17.4	74.4	—	88.2	—
Other	18	2.5	83.3	—	86.7	_
Age (yrs)						
≤29	73	10.2	58.9	1.3	90.7	0.3
≥30	645	89.8	65.6		87.8	_
Sexual orientation						
Heterosexual Bisexual/	677	94.4	65.9	5.6†	88.0	0.0
Homosexual	40	5.6	47.5	—	88.9	
IDU sex partner						
Yes	466	72.2	61.6	1.7	86.0	3.2
No	179	27.8	67.0	—	92.4	—
Lived in area for ≥1 yr						
Yes	635	88.7	65.4	0.4	87.6	0.8
No	81	11.3	61.7	—	92.0	—

TABLE 1. Self-reported HIV-antibody testing and receipt of test results among male injecting-drug users (IDUs) — southern Los Angeles County, 1991–1992

*p<0.01.

†p<0.05.

HIV-Antibody Testing - Continued

HIV infection and that testing rates were lower among blacks, Hispanics, and persons with less than a high school education (3). The NHIS also documented higher rates of CT among persons in metropolitan areas, the western United States, and persons at increased risk. However, because the NHIS sampling scheme targeted households, estimates for HIV testing probably underrepresented some groups of at-risk persons (e.g., those who were homeless or who lived in transitional housing). When compared with the NHIS results, the rates of self-reported testing among the high-risk populations in southern Los Angeles County were higher. In addition, these findings are consistent with information from publicly funded testing sites in Los Angeles County, which indicate comparable return rates (82%) for similar high-risk persons (CDC unpublished data, 1993), and suggest that HIV-prevention programs promoting CT in southern Los Angeles County have been effectively extended to IDUs, female sex partners of male IDUs, and street prostitutes. However, 37% of all at-risk persons interviewed in this assessment had either not been tested or failed to obtain their test results, emphasizing the need to continue to offer CT and other HIV-prevention services to populations at high risk.

	Sample	% Total	Hľ	V tested	Rece	ived results
Characteristic	size	sample	%	Chi-square	%	Chi-square
Race/Ethnicity						
Black Hispanic	923 262	55.1 15.6	68.3 77.5	42.1*	85.2 91.1	16.1*
White	419	25.0	83.1	_	91.1	
Other	71	4.2	87.3	_	93.5	
Age (yrs)						
≤29	596	35.6	71.3	4.0†	88.7	0.0
≥30	1078	64.4	75.8	—	88.7	
Sexual orientation						
Heterosexual Bisexual/	1363	81.5	72.7	9.0*	88.9	0.2
Homosexual	310	18.5	81.0	_	88.0	
Ever injected drugs						
Yes	937	55.9	80.9	49.7*	90.0	3.0
No	738	44.1	65.7	—	86.8	
Ever traded sex for money or drugs						
Yes	1199	71.6	76.9	16.1*	88.2	1.1
No	475	28.4	67.4	—	90.3	
Injecting-drug user sex partner						
Yes	1121	68.7	71.3	9.2*	87.3	3.5
No	510	31.3	78.4	—	91.0	
Lived in area for ≥ 1 yr	1005	00.0	75.4	2.4	00 (0.0
Yes No	1385 287	82.8 17.2	75.1 70.7	2.4	88.6 89.1	0.0
*==-0.01	201	17.2	70.7		07.1	

TABLE 2. Self-reported HIV-antibody testing and receipt of test results among high-risk
women — southern Los Angeles County, 1991–1992

*p<0.01.

[†]p<0.05.

HIV-Antibody Testing — Continued

One factor that may account for the lower rates of testing among female sex partners of male IDUs in southern Los Angeles County may be that a substantial proportion of these women did not perceive themselves as being at high risk for HIV infection because they did not personally inject drugs or engage in prostitution (4,5). Only 55.5% of female sex partners of male IDUs who had no history of drug injection or prostitution had been tested.

The findings of this report are subject to at least five limitations. First, the total population of high-risk persons from which the study sample was drawn was unknown. Second, because the level of respondents' use of CT services was based on self-reports, their reports of use of CT services may have been influenced by perceived desirability of receiving a HIV test and test results. Third, only minimal respondent characteristic information was collected and available to make comparisons; additional client and service delivery information is necessary for a comprehensive evaluation of CT service use in this geographic area. Fourth, because some of these persons may not have been tested in a publicly funded CT site, these findings cannot be directly compared with national data. Fifth, the racial/ethnic differences may have reflected differences in factors such as socioeconomic status and general use of health-care services.

High rates of AIDS cases continue to be observed in the metropolitan Los Angeles County area (6). Self-reports of testing in this assessment addressed neither how recently or how frequently tests were obtained nor the results of tests. However, the high level of self-reports of HIV testing among IDUs and high-risk women in southern Los Angeles County is encouraging when compared with what would have been predicted by findings from national surveys. In continuing to offer HIV CT programs to populations at risk, programs targeting women should emphasize that women's risk for HIV infection is in part determined by the sexual and drug-related practices of their male sex partners.

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Notice to Readers

Publication of Draft Guidelines for Preventing the Transmission of Tuberculosis in Health-Care Facilities, Second Edition

CDC has published the *Draft Guidelines for Preventing the Transmission of Tuberculosis in Health-Care Facilities, Second Edition*; the draft document was published in the October 12 *Federal Register* * for public comment. A copy of the document is available from the Guidelines Work Group, Mail Stop E-07, CDC, 1600 Clifton Road, Atlanta, GA 30333; telephone (404) 639-8027. Comments must be received in writing by December 13, 1993, at the above address.

*58 FR 52810-54.

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