



MORBIDITY AND MORTALITY WEEKLY REPORT

- 309 Clean Air Month May 1995
- 309 Children at Risk from Ozone Air Pollution U.S., 1991–1993
- 312 Fatal and Nonfatal Suicide Attempts Among Adolescents — Oregon, 1988–1993
- 323 Evaluation of Vaccination Strategies in Public Clinics Georgia, 1985–1993
- 325 Notice to Readers
- 326 AIDS Map

Clean Air Month — May 1995

The American Lung Association (ALA) sponsors National Clean Air Month each May to educate the public about the relation between clean air and respiratory health. This year's theme is "Helping Kids Breathe Easier."

Air pollution is an important contributor to lung disease, the third leading cause of death in the United States. ALA is committed to decreasing lung disease in children by emphasizing the importance of reducing air pollution. ALA recommends that persons drive less, support state and local clean air regulations, make their homes and workplaces smoke-free, and test them for harmful pollutants (e.g., radon and carbon monoxide).

Efforts planned by local lung associations throughout the country for Clean Air Month include Clean Commute Days and Clean Air Challenge cycling and walking fundraising events. This issue of *MMWR* includes a report that provides estimates of the number of children potentially at risk from ozone air pollution.

Additional information about Clean Air Month and related activities is available from local ALA offices (telephone [800] 586-4872) or from the national office (1740 Broadway, New York, NY 10019-4374; telephone [212] 315-8700).

Children at Risk from Ozone Air Pollution — United States, 1991–1993

A national health objective for the year 2000 is to reduce exposure to air pollutants so that at least 85% of persons reside in counties that meet Environmental Protection Agency (EPA) standards (objective 11.5) (1). Ozone, the principle component of summer smog, is the most pervasive air pollutant in the United States. The risks associated with ozone and other air pollutants are especially increased for children and adults with asthma (2); however, children with no underlying pulmonary diseases also are at risk for adverse health effects associated with these pollutants (3). In addition, because children of racial/ethnic minorities are more likely to reside in areas with higher air pollution levels, they may be exposed to higher levels of ozone (4). This report presents the findings of an analysis by the American Lung Association (ALA) to

Ozone Air Pollution — Continued

characterize pediatric populations potentially at risk for adverse health effects from exposure to ozone air pollution in the United States during 1991–1993.

The National Ambient Air Quality Standard for ozone is 0.12 parts per million (ppm) averaged over 1 hour.* The federal standard is met if this value is not exceeded more than once per calendar year on average over a 3-year period. The federal "exceedance" of the 0.12 ppm standard is defined as all levels \geq 0.125 ppm.[†] For this report, both the federal exceedance level (\geq 0.125 ppm, averaged over 1 hour) and an alternative level—used in recent health studies (\geq 0.085 ppm, averaged over 8 hours) (5)—were used as cutoff values.

The 1990 population census provided race/ethnicity-specific data for persons aged ≤17 years in each county (Bureau of the Census, unpublished data, 1992). The number of children with asthma was estimated by applying age-specific national prevalence rates from CDC's National Health Interview Survey (6) to age-specific population estimates at the county level. Information about ozone exposure was based on 1991–1993 monitored ozone data (EPA, unpublished data, 1994), the most recent data available from EPA. Although individual levels of ozone exposure may vary for persons who reside in a particular county and differ from those measured by the monitor in that county, ozone levels generally are consistent within specific geographic areas (7).

During 1991–1993, ozone levels exceeded 0.085 ppm over 8 hours on four or more occasions in 394 counties and cities; an estimated 136 million persons (54.7% of the U.S. population) resided in these areas. Of the total number of children aged \leq 13 years in the United States (50,324,764), approximately 27.1 million (53.9%) resided in these areas. Among racial/ethnic groups, 61.3% of all black children, 67.7% of all Asian/Pacific Islander children, and 69.2% of all Hispanic children resided in these areas (Table 1). An estimated 2.0 million (5.8%) of the 34.3 million children (aged \leq 17 years) residing in these areas were affected by asthma.

During 1991–1993, a total of 104 counties and cities had ozone levels >0.125 ppm over a 1-hour period on four or more occasions. An estimated 60 million persons in the United States (24.1% of the U.S. population) resided in these areas, including an estimated 12.1 million children (aged \leq 13 years) (24.1% of all children in this age group). Among racial/ethnic groups, 23.1% of black children, 39.9% of Asian/Pacific Islander children, and 44.2% of Hispanic children resided in these areas (Table 2). Approximately 877,000 children (aged \leq 17 years) in these areas were affected by asthma.

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Editorial Note: Ozone pollution results when hydrocarbons and nitrogen oxides emitted from motor vehicles and other sources react in the presence of sunlight. Exposure to ozone has been associated with adverse health effects, including hospital and emergency department visits for asthma and other respiratory problems; reductions in lung function; and exercise-related wheezing, coughing, and chest tightness (5). Children are at higher risk for detrimental effects of ozone than adults because they

^{*44} FR 8202.

[†]40 CFR 50.

Ozone Air Pollution — Continued

spend more time outdoors during summer months when ozone levels are higher and because their lungs are still developing (8).

Although air pollution has been recognized as a public health hazard in the United States since the 1950s, the disproportionate risks for racial/ethnic minorities with low

TABLE 1. Estimated number and percentage* of persons aged ≤13 years exposed to ozone levels ≥0.085 ppm over an 8-hour period on four or more occasions, by race/ethnicity and age group — United States, 1991–1993

		Age group (yrs)											
	0-4	1	5–13	3	Total								
Race/Ethnicity	No.	(%)	No.	(%)	No.	(%)							
White	7,024,973	(51.5)	12,105,966	(50.4)	19,130,940	(50.8)							
Black	1,726,730	(62.0)	2,915,656	(60.9)	4,642,386	(61.3)							
American Indian/ Alaskan Native Asian/Pacific	57,562	(28.5)	102,586	(29.2)	160,149	(28.9)							
Islander	400,682	(67.6)	702,920	(67.6)	1,103,601	(67.7)							
Hispanic [†]	1,665,225	(69.7)	2,628,432	(68.9)	4,293,657	(69.2)							
Other [§]	821,455	(72.9)	1,272,863	(72.4)	2,094,318	(72.6)							
Total	10,031,403	(54.7)	17,099,991	(53.5)	27,131,394	(53.9)							

^{*}Percentage of race/ethnicity-specific and age-specific population (e.g., percentage of blacks aged <5 years) residing in these areas.

TABLE 2. Estimated number and percentage* of persons aged ≤13 years exposed to ozone levels ≥0.125 ppm over a 1-hour period on four or more occasions, by race/ethnicity and age group — United States, 1991–1993

	Age group (yrs)											
	0-4	ļ	5–1	3	Total							
Race/Ethnicity	No.	(%)	No.	(%)	No.	(%)						
White	3,077,213	(22.5)	5,155,003	(21.4)	8,232,215	(21.8)						
Black	658,805	(23.6)	1,089,974	(22.8)	1,748,779	(23.1)						
American Indian/ Alaskan Native	24,388	(12.1)	43,000	(12.2)	67,388	(12.2)						
Asian/Pacific Islander	236,856	(40.2)	413,419	(39.8)	650,276	(39.9)						
Hispanic [†]	1,070,046	(44.8)	1,667,656	(43.7)	2,738,062	(44.2)						
Other§	558,082	(49.5)	857,686	(48.8)	1,415,768	(49.1)						
Total	4,555,344	(24.8)	7,559,082	(23.6)	12,114,426	(24.1)						

^{*}Percentage of race/ethnicity-specific and age-specific population (e.g. percentage of blacks aged <5 years) residing in these areas.

[†]Persons of Hispanic origin can be of any race and therefore are represented in the other five racial categories.

[§]Includes all other persons not included in white, black, American Indian/Alaskan Native, or Asian/Pacific Islander groups (e.g., multiracial, multiethnic, mixed, and interracial) or a Spanish/Hispanic origin group (e.g., Mexican, Cuban, or Puerto Rican).

[†]Persons of Hispanic origin can be of any race and therefore are represented in the other five racial categories.

[§]Includes all other persons not included in white, black, American Indian/Alaskan Native, or Asian/Pacific Islander groups (e.g., multiracial, multiethnic, mixed, and interracial) or a Spanish/Hispanic origin group (e.g., Mexican, Cuban, or Puerto Rican).

Ozone Air Pollution — Continued

incomes have only recently been recognized (4). The findings in this report underscore the increased risk for exposure—particularly among children—for racial/ethnic minorities who reside in areas where national air quality standards are not met (4). In addition, since the early 1980s, the risk for asthma-associated mortality and hospitalization has been consistently higher among young persons who are black (9).

ALA recently issued *Danger Zones: Ozone Air Pollution and Our Children*. The report is a national and county estimate of the number of children who are at potential risk from exposure to ozone. Copies are available from local offices of the ALA, telephone (800) 586-4872 or (212) 315-8700.

References

- 1. Public Health Service. Healthy people 2000: national health promotion and disease prevention objectives. Washington, DC: US Department of Health and Human Services, Public Health Service, 1991; DHHS publication no. (PHS)91-50213.
- 2. CDC. Populations at risk from air pollution—United States, 1991. MMWR 1993;42:301-4.
- 3. Committee on Environmental Health. Ambient air pollution: respiratory hazards to children. Pediatrics 1993;91:1210–3.
- 4. US Environmental Protection Agency. Environmental equity: reducing risk for all communities. Volume 1: workgroup report to the Administrator. Washington, DC: US Environmental Protection Agency, Office of Policy, Planning, and Evaluation, June 1992; publication no. EPA-230/R-92/008.
- 5. Lippmann M. Health effects of tropospheric ozone: review of recent research findings and their implications to ambient air quality standards. J Expo Anal Care Environ Epidemiol 1993; 3:103–29.
- 6. NCHS. Current estimates from the National Health Interview Survey, 1990. Hyattsville, Maryland: US Department of Health and Human Services, Public Health Service, CDC, 1991; DHHS publication no. (PHS)92-1509. (Vital and health statistics; series 10, no. 181).
- 7. Curran T, Fitz-Simons T, Freas W, et al. National air quality and emissions trends report, 1993. Research Triangle Park, North Carolina: US Environmental Protection Agency, Office of Air Quality Planning and Standards, October 1994; publication no. EPA-454/R-94/026.
- 8. World Health Organization. Principles for evaluating health risks from chemicals during infancy and early childhood: the need for a special approach. Geneva: World Health Organization, 1986; environmental criteria 59.
- 9. CDC. Asthma—United States, 1982-1992. MMWR 1995;43:952-5.

Fatal and Nonfatal Suicide Attempts Among Adolescents — Oregon, 1988–1993

Suicide is the third leading cause of death among adolescents aged 15–19 years in the United States and second among adolescents in Oregon. During 1959–1961 and during 1990–1992, the rate of suicide in Oregon increased sixfold among 15–19-year-olds. During 1988–1991, the suicide rate for adolescents in Oregon (15.5 deaths per 100,000) was 39.6% higher than the U.S. rate (11.1). Because of the magnitude of this problem, in 1987 the state legislature in Oregon mandated that hospitals treating a child aged ≤17 years for injuries resulting from a suicide attempt report the attempt to the State Health Division, Oregon Department of Human Resources, and that the patient be referred for counseling; the Oregon Adolescent Suicide Attempt Data System (ASADS) was established in 1988. This report presents an analysis of data for adolescents aged ≤17 years from ASADS during 1988–1993.

Notification of suicide attempt is made through a one-page report form, which is usually completed by emergency department or medical records personnel and is submitted monthly from all hospitals in the state. Hospitals use their own criteria to define attempts. Information collected includes age, race/ethnicity, sex, place of attempt, date of attempt, method of attempt, and whether the patient was admitted to the hospital. Beginning in 1990, data also were collected on reasons for the attempt and number of previous attempts. Data missing from attempt reports were imputed in proportion to known distributions for the specified variable. The proportion of missing data ranged from 0.1%–23.5%. In this analysis, fatal attempts were identified using death certificate data.

During 1988–1993, a total of 3783 suicide attempts were reported for persons aged ≤17 years; of these, 3773 were by persons aged 10–17 years (Table 1). Sex-specific attempt rates were 326.4 per 100,000 for females and 73.4 for males. Children as young as age 6 years had attempted suicide. The number of reported attempts increased steadily with age for males but peaked at age 15 years for females (Figure 1).

Characteristics of Fatal and Nonfatal Suicide Attempts

During 1988–1993, most (2981 [78.8%]) suicide attempts were made in the residence of the attempter; 280 (7.4%), in another residence; 178 (4.7%), in school; and seven (0.2%), in jail. Attempts occurred more commonly during spring months (March, April, and May) (1106 [29.2%]) and least commonly during summer months (June, July, and August) (731 [19.3%]). In addition, attempts occurred most frequently on Mondays (660 [17.4%]) and least often on Saturdays (414 [11.0%]).

Among youth aged 10–17 years, 123 (6.4 per 100,000) made a suicide attempt that resulted in death (Table 1). The rate of fatal suicide attempts was three times greater for males (9.5) than for females (3.1). In addition, the proportion of attempts that were fatal was more than 100-fold higher among males (94 [11.5%]) than among females (29 [0.1%]). Although the risk for attempts was 3.8 times greater among youth aged 15–17 years than among those aged 10–14 years, the proportions of fatal attempts were similar among males and females in both age groups.

During 1990–1993, of the 2511 persons who attempted suicide, 1042 (41.5%) reported having made at least one previous attempt during the preceding 5 years.

TABLE 1. Number and rate* of fatal and nonfatal suicide attempts among persons aged 10–17 years, by age group and sex — Oregon, 1988–1993

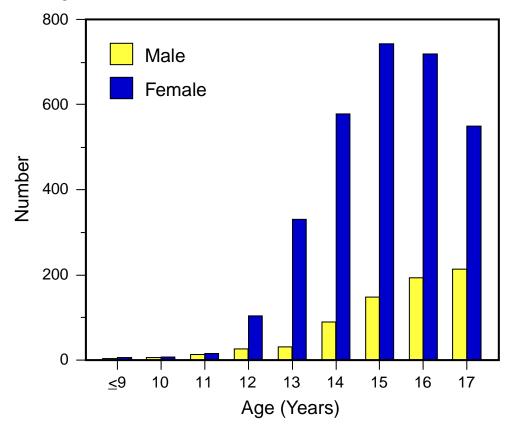
Attempt/	M	ale	Fen	nale	Total	
Age group	No.	Rate	No.	Rate	No.	Rate
Nonfatal [†]						
10-14 yrs	167	26.6	1037	174.0	1204	98.4
15–17 yrs	556	156.1	2013	594.4	2569	369.7
Total	723	73.4	3050	326.4	3773	196.6
Fatal [§]						
10-14 yrs	22	3.5	10	1.7	32	2.6
15–17 yrs	72	20.2	19	5.6	91	13.1
Total	94	9.5	29	3.1	123	6.4

^{*}Per 100,000 population in specified group.

[†]Source: Oregon Adolescent Suicide Attempt Data System.

[§]Source: Oregon death certificate data.

FIGURE 1. Number of suicide attempts among persons aged ≤17 years, by age and sex — Oregon, 1988–1993



Previous attempts occurred most often among those who indicated their reason for attempting suicide was rape/sexual abuse (149 [60.7%]), substance abuse (111 [56.6%]), or physical abuse (46 [54.0%]).

Methods Used

During 1988–1993, ingestion of drugs accounted for most (2857 [75.5%]) attempts (Table 2); of the attempts involving drugs, analgesics accounted for 1354 (47.4%) (aspirin and acetaminophen were used most commonly). Cutting and piercing injuries accounted for 421 (11.1%) of the attempts, of which most were lacerations of the wrists. Most attempts by multiple methods were lacerations combined with a drug overdose.

Drugs were used in 2440 (79.8%) attempts by females, compared with 417 (57.4%) by males (Table 2). Males who attempted suicide were more likely than females to do so by suffocation/hanging, cutting/piercing, or use of firearms (Table 2).

Of all methods used to attempt suicide, those used most commonly were least likely to result in death (e.g., of attempts by drug overdose, 0.4% were fatal) (Table 2). In comparison, 78.2% and 35.7% of attempts using firearms or poisonings with gas, respectively, were fatal. Of the 124 deaths among persons aged \leq 17 years, most resulted from use of firearms (63.7%) or suffocation/hanging (18.5%).

TABLE 2. Percentage of fatal and nonfatal suicide attempts among persons aged ≤17 years, by sex, age group, and method used — Oregon, 1988-1993

			Se	x (%)	Aç	ge group (yrs)	% Fatal	% Attempts	
	Total a	ttempts	Male	Female	<u>≤12</u>	13–14	15–17	Attempts [†]	resulting in
Method	No.	(%)	(n=726)	(n=3057)	(n=182)	(n=1029)	(n=2572)	(n=124)	death§
Poisoning, drugs	2857	(75.5)	57.4	79.8	75.3	77.5	74.8	9.7	0.4
Poisoning, solids									
and liquids	174	(4.6)	6.6	4.0	6.0	5.5	4.1	0.8	0.6
Poisoning, gas	8	(0.2)	1.0	0.1	0	0.3	0.2	4.0	35.7
Suffocation/Hanging	91	(2.4)	7.0	1.3	8.2	2.1	2.1	18.5	20.2
Drowning	4	(0.1)	0.4	0.1	0	0.1	0.2		
Using firearms	23	(0.6)	2.6	0.2	0	0.6	0.8	63.7	78.2
Cutting/Piercing Jumping from a	421	(11.1)	16.3	9.9	7.1	9.9	11.9	_	_
high place	23	(0.6)	1.7	0.3	_	0.5	0.7		
Other¶	182	(4.8)	7.0	4.2	3.3	3.6	5.3	3.2	2.2
Total	3783	(100.0)	100.0	100.0	100.0	100.0	100.0	100.0	3.2

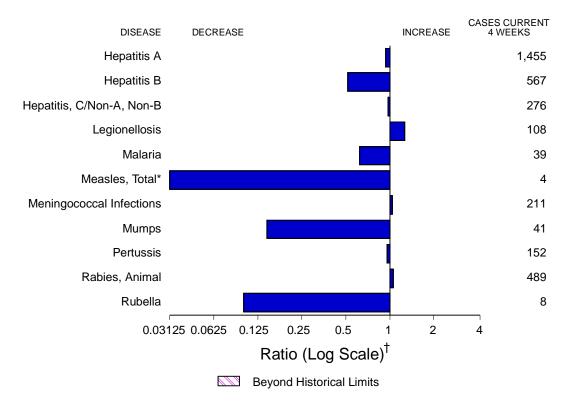
^{*}Source: Oregon Adolescent Suicide Attempt Data System.

†Source: Oregon death certificate data.

§Calculated by dividing the number of fatal attempts in a category by the total number of attempts in that category.

¶Includes attempts by multiple methods.

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending April 22, 1995, with historical data — United States



^{*}The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending April 22, 1995 (16th Week)

	Cum. 1995		Cum. 1995
Anthrax Brucellosis Cholera Congenital rubella syndrome Diphtheria Haemophilus influenzae* Hansen Disease Plague Poliomyelitis, Paralytic	12 - 3 - 418 36 - -	Psittacosis Rabies, human Rocky Mountain Spotted Fever Syphilis, congenital, age < 1 year [†] Tetanus Toxic shock syndrome Trichinosis Typhoid fever	14 1 34 - 9 58 8

[†]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.

^{*}Of 407 cases of known age, 94 (23%) were reported among children less than 5 years of age.

†Updated quarterly from reports to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services. First quarter data not yet available.

^{-:} no reported cases

TABLE II. Cases of selected notifiable diseases, United States, weeks ending April 22, 1995, and April 23, 1994 (16th Week)

-		-	-		•	Hepatitis ((Viral), by	type	-		
Reporting Area	AIDS*	Gono	rrhea	P	1	В	}	C/NA	A,NB	Legion	ellosis
noporting / nou	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	19,652	110,273	117,216	7,238	6,664	2,514	3,734	1,279	1,390	380	448
NEW ENGLAND	842	1,719	2,505	51	98	59	133	28	43	5	5
Maine N.H.	23 38	20 34	19 23	10 2	11 3	2 7	4 7	3	5	-	-
Vt. Mass.	7 457	15 937	8 918	19	- 45	1 16	4 92	24	6 25	4	- 1
R.I.	59	174	132	9	12	7	3	1	7	1	4
Conn. MID. ATLANTIC	258 4,550	539 11,163	1,405 13,525	11 360	27 448	26 278	23 428	105	166	N 40	N 52
Upstate N.Y.	521	1,997	2,683	100	144	102	113	56	73	11	12
N.Y. City N.J.	2,342 1,112	3,524 1,196	5,490 1,733	155 54	155 102	63 66	88 119	1 37	1 79	6	10
Pa.	575	4,446	3,619	51	47	47	108	11	13	23	30
E.N. CENTRAL Ohio	1,622 409	24,186 7,642	21,311 7,306	982 652	613 170	265 30	444 62	73 4	123 3	101 50	165 62
Ind. III.	106 737	2,350 6,763	2,373 4,372	50 116	110 190	69 35	74 109	- 12	3 38	24 7	52 10
Mich.	278	6,049	5,182	124	84	122	114	57	79	14	28
Wis. W.N. CENTRAL	92 427	1,382 5,619	2,078 6,454	40 337	59 298	9 172	85 198	32	24	6 42	13 32
Minn.	93	881	992	39	61	13	18	1	5	-	-
lowa Mo.	20 148	468 3,366	390 3,588	17 225	8 145	12 121	11 147	3 20	6 4	8 27	20 6
N. Dak. S. Dak.	1 1	6 61	10 60	10 6	1 12	2 1	-	- 1	-	3	2
Nebr.	43	-	332	9	39	8	10	3	4	2	3
Kans. S. ATLANTIC	121 5,708	837 33,359	1,082 30,669	31 335	32 393	15 386	12 804	4 92	5 262	2 57	1 109
Del.	113	636	555	5	11	2	3	1	1	-	-
Md. D.C.	978 373	4,257 1,607	5,799 2,021	65 2	55 9	74 8	114 14	3	12	12 3	24
Va. W. Va.	374 21	3,553 223	3,971 225	60 10	38 3	31 21	28 7	2 20	14 10	3 3	2 1
N.C.	248	7,707	7,357	42	29	97	94	22	22	10	7
S.C. Ga.	280 594	3,637 5,461	3,863 U	9 37	9 21	10 39	12 355	1 10	1 145	12 8	1 56
Fla.	2,727	6,278	6,878	105	218	104	177	33	57	6	18
E.S. CENTRAL Ky.	612 63	15,875 2,787	10,550 1,356	409 12	135 72	260 16	390 37	458 6	271 8	10 1	21 3
Tenn. Ala.	269 159	3,798 6,299	4,089 5,105	331 43	46 17	203 41	329 24	450 2	261 2	6 2	13 5
Miss.	121	2,991	5, 105 U	23	Ú	-	U	-	Ú	1	Ü
W.S. CENTRAL	1,404	9,474	13,148	711	864	326	355	141	106	3	11
Ark. La.	64 299	1,030 3,709	2,101 4,004	49 19	29 30	5 25	9 41	26	2 26	1	4 -
Okla. Tex.	84 957	564 4,171	1,128 5,915	141 502	70 735	115 181	108 197	107 8	56 22	2	7 -
MOUNTAIN	637	2,473	8,158	1,356	1,385	216	209	147	164	84	29
Mont. Idaho	8 17	30 40	29 52	19 138	9 210	7 25	6 56	7 15	2 76	2 1	10 -
Wyo. Colo.	4 214	18 947	30 1,034	50 177	6 148	3 41	6 33	60 27	31 21	1 24	1 4
N. Mex.	69	277	325	258	322	74	64	18	18	2	1
Ariz. Utah	133 37	910 39	6,054 105	357 315	499 127	36 21	18 11	12 3	4 8	43 2	1 1
Nev.	155	212	529	44	64	9	15	5	4	9	11
PACIFIC Wash.	3,850 360	6,405 793	10,896 934	2,695 172	2,430 351	552 53	773 75	203 67	231 73	38 3	24 5
Oreg. Calif.	122 3,261	18 5,135	314 9,152	518 1,938	115 1,882	32 458	20 653	12 115	2 153	30	- 17
Alaska	29	266	262	15	69	4	5	1	-	-	-
Hawaii Guam	78	193 23	234 44	52 1	13 3	5	20	8	3	5	2 2
P.R.	649	148	154	15	24	220	116	164	43	-	-
V.I. Amer. Samoa	14 -	4 8	8 7	5	4	1 -	1	-	-	-	-
C.N.M.I.		4	17	7	2	1	-	-	-	-	

N: Not notifiable U: Unavailable -: no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands *Updated monthly to the Division of HIV/AIDS, National Center for Infectious Diseases; last update March 30, 1995.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending April 22, 1995, and April 23, 1994 (16th Week)

							Measle	es (Rube	eola)		I			
Reporting Area		me ease	Mal	laria	Indig	enous	Impo	orted*	To	tal	Mening	ococcal tions	Mu	mps
	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	1995	Cum. 1995	1995	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	1,091	1,152	251	315	1	142	-	4	146	300	1,039	1,062	229	448
NEW ENGLAND	88	128	14	23	-	2	-	1	3	11	62	50	3	10
Maine N.H.	1 7	4	1 1	1 3	-	-	-	-	-	-	3 13	8 4	2	3 4
Vt.	1	1	-	1	-	-	-	-	-	1	6	1	-	-
Mass. R.I.	34 10	23 16	3 2	8 4	-	2	-	1	1 2	2 5	22	21	-	- 1
Conn.	35	84	7	6	-	-	-	-	-	3	18	16	1	2
MID. ATLANTIC	806	811	53	47	-	1	-	-	1	119	103	102	31	43
Upstate N.Y. N.Y. Citv	485 3	653	11 22	14 11	-	- 1	-	-	1	5 1	41 10	33 14	9 4	8
N.J.	50	100	13	14	-	-	-	-	-	112	22	25	-	9
Pa.	268	58	7	8	-	-	-	-	-	1	30	30	18	26
E.N. CENTRAL Ohio	16 13	11 4	19 1	39 5	-	-	-	-	-	24 10	130 39	162 39	34 15	115 8
Ind.	2	1	2	9	-	-	-	-	-	1	25	36	1	5
III. Mich.	- 1	5 1	14 2	15 9	-	-	-	-	-	7 3	37 25	51 14	5 13	78 21
Wis.	-	-	-	1	-	-	-	-	-	3	4	22	-	3
W.N. CENTRAL	18	25	7	17	-	1	-	-	1	17	65	73	17	21
Minn. Iowa	- 1	7 1	3	4 3	-	-	-	-	-	-	13 11	7 6	2 3	4 4
Mo.	4	14	3	7	-	1	-	-	1	16	23	39	10	11
N. Dak. S. Dak.	-	-	-	-	-	-	-	-	-	-	3	- 5	-	1
Nebr.	-	-	1	2	-	-	-	-	-	1	6	6	2	1
Kans.	13	3	-	1	-	-	-	-	-	-	9	10	-	-
S. ATLANTIC	116	135	63	68	-	-	-	-	-	4	195	163	33	73
Del. Md.	7 80	14 46	1 18	2 28	-	-	-	-	-	-	2 12	2 10	-	19
D.C.	-	1	6	7	-	-	-	-	-	-	1	1	-	-
Va. W. Va.	3 7	12 3	11	8 -	-	-	-	-	-	1 -	25 3	25 8	9	17 3
N.C.	9	19	6	2	-	-	-	-	-	-	33	30	16	22
S.C. Ga.	5 4	36	10	2 10	-	-	-	-	-	-	25 52	5 29	3	5 3
Fla.	i	4	11	9	-	-	-	-	-	3	42	53	5	4
E.S. CENTRAL	8	8	4	7	-	-	-	-	-	27	67	66	12	-
Ky. Tenn.	1 4	6 1	1	2 4	-	-	-	-	-	- 27	20 20	15 20	4	-
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Miss.	2	U	-	U	-	-	-	-	-	U	12	U	5	U
W.S. CENTRAL Ark.	21 1	9	6 2	7	-	2 2	-	-	2 2	11	121 11	128 19	9	86
La.	-	-	1	-	-	-	-	-	-	1	14	20	2	8
Okla.	11 9	7 2	-	2 5	-	-	-	-	-	- 10	11 85	10 79	- 7	21
Tex. MOUNTAIN	2	5	3 20	5 14	-	40	-	-	- 40	78	85	92	15	57 14
Mont.	-	-	2	-	-	40	-	-	-	-	2	2	-	-
Idaho	-	2	1	4	-	1	-	-	1	-	2 4	24 2	3	6
Wyo. Colo.	1	-	10	4	-	-	-	-	-	11	20	10	1	-
N. Mex.	-	3	3	2	-	28	-	-	28	-	19	6	N	N
Ariz. Utah	-	-	2 1	1 3	-	10	-	-	10	- 67	31 2	31 13	3 1	4
Nev.	1	-	1	-	-	1	-	-	1	-	5	4	6	3
PACIFIC	16	20	65	93	1	96	-	3	99	9	211	226	75	86
Wash. Oreg.	1	-	7 4	9 6	-	13 1	-	1	14 1	-	34 41	38 48	4 N	6 N
Calif.	15	20	47	70	1	82	-	1	83	8	133	134	62	71
Alaska Hawaii	-	-	1 6	- 8	-	-	-	- 1	- 1	- 1	1 2	1 5	8 1	2 7
Guam	-	-	-	-	U	_	U		-	44	1	-	2	2
P.R.	-	-	-	-	-	3	-	-	3	22	10	5	-	2
V.I. Amer. Samoa	-	-	-	-	Ū	-	Ū	-	-	-	-	-	1	- 1
C.N.M.I.	-	-	-	1	Ü	-	Ü	-	-	26	-	-	-	-

 $^{{\}rm *For}\ imported\ measles,\ cases\ include\ only\ those\ resulting\ from\ importation\ from\ other\ countries.$

N: Not notifiable

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending April 22, 1995, and April 23, 1994 (16th Week)

UNITED STATES 34 880 1,119 - 28 125 4,985 5,784 4,768 5,261 1,927 2,154 1,000	Reporting Area		Pertussis			Rubella			hilis ary & ıdary)	Tuberc	ulosis	Rabies, Animal	
NEW RISIGNAND 2 107 108 - 2 83 60 61 98 98 561 571 Maine 1 12 2 8 2 1 1		1995	Cum. 1995		1995		Cum. 1994		Cum. 1994	Cum. 1995		Cum. 1995	Cum. 1994
Maine	UNITED STATES	34	860	1,119	-	26	125	4,982	5,794	4,769	5,261	1,927	2,154
N.H.	NEW ENGLAND	2	107		-	2	83		61	98	98	561	571
VI.		1											- 70
R.I 6 7 - 2 - 1 1 5 1 1 75 12 21 11 75 5 5 Conn 6 7 7 36 37 29 38 121 226 MIDATIANTIC 6 6 66 219 - 2 4 4 286 428 992 960 492 507 Upstate NY. 6 44 887 - 1 1 4 22 54 88 149 205 307 NY.City - 10 35 - 1 - 154 224 554 584 149 205 307 NY.City - 10 35 - 1 - 5 53 75 181 179 101 100 Pa 12 88 5 53 75 181 179 101 100 Pa 12 88 111 868 755 181 179 101 100 Pa 33 88 75 111 868 755 181 179 101 100 Pa 33 88 75 111 868 755 181 179 101 100 Pa 33 88 111 868 875 181 179 101 100 Pa 297 324 48 88 75 111 868 875 181 179 101 100 Pa 297 324 48 89 75 1 111 868 875 181 179 101 100 Pa		-											
Conn 6 7 36 37 29 38 121 226 MID. ATLANTIC 6 666 219 - 2 4 8266 428 992 980 492 507 Upstate NY. 6 444 87 - 1 4 4 22 54 88 149 205 360 NY. City - 10 35 - 1 - 154 224 554 588 149 205 360 NY. City - 10 35 - 1 - 157 75 181 179 101 100 NY. City - 12 88 57 75 181 179 101 100 E.N. CENTRAL - 71 258 111 868 765 499 581 2 8 E.N. CENTRAL - 4 31 295 524 85 77 1 2 Ind 4 4 31 771 80 2 10 35 - 1 Ind 4 4 31 771 80 2 10 35 - 1 Ind 4 4 31 771 80 2 10 35 - 1 Ind 1 62 8 8 8 2 2 16 1 8 8 8 169 9 10 14 14 14 - 3 3 MYM. CENTRAL 11 51 40 15 49 991 14 14 14 - 3 3 Min. B 2 2 16 15 15 47 31 22 81 53 Min. Dak 6 6 3 3 1 198 349 62 63 112 61 Mo 4 4 11 1 15 14 31 22 2 18 18 3 Min. Dak 6 6 1 198 349 62 63 112 61 Mo 4 4 11 1 15 14 1 1 7 6 N. Dak 6 6 198 349 62 63 112 61 Mo 4 4 11 105 15 25 9 30 21 Mo 4 4 11 105 15 25 9 30 21 Mo 4 4 11 188 349 62 63 112 61 Mo 6 6 198 349 62 63 112 61 Mo 6 6 198 349 62 63 112 61 Mo 6 6 188 349 62 63 112 61 Mo 6 6 198 349 62 63 112 61 Mo 6 6 198 349 62 63 112 61 Mo 6 6 188 18 349 62 63 112 61 Mo 6 6 188 18 349 62 63 112 61 Mo 6 6	Mass.	1		57	-	1	83			52		217	214
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Upstate NY, 6 6 44 87 - 1 4 22 54 88 149 205 360 NY, City - 10 35 - 1 - 154 224 554 564 N.J. NY, City - 10 35 - 1 - 154 224 554 564 N.J. NY, City - 10 35 - 1 - 154 224 554 564 N.J. NY, City - 10 35 - 1 - 157 75 181 179 101 100 07 100 000 000 000 000 000 000		6			_	2							
N.J.,					-								
Pa.		-			-							101	100
EN CENTRAL Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio		-			-	-							
Ohio		_			_	_	11						
III.		-		58	-	-			324		77		
Mich. - 29 19 - - 5 96 98 108 130 - 2 Wis. - 1 62 - - 49 91 14 14 - 3 WM. CENTRAL 11 51 40 - - - 105 15 22 81 53 Mon. - 1 3 - - - 105 15 25 9 30 21 Mon. - 4 11 - - 108 13 28 2 5 Nobal. - 6 2 - - - 106 6 2 - - - 1 1 7 - 8 10 1 7 - 8 10 1 7 - - - - - - - - - - - -		-			-	-						- 1	
Wis 1 62 49 91 14 14 14 - 33 Win. CENTRAL 11 51 40 327 407 175 122 81 53 Minn A		-			-	_						-	
Minn.		-	1	62	-	-		49		14	14	-	
Now - 1 3 - - 105 15 25 9 30 21					-	-	-						
Mo. -						-							
S. Dak. Nebtr - 3 2 2 16 6 12 6 Nebtr Kans. 3 10 6 4 6 2 Kans. 3 10 6 9 25 34 13 18 15 S. ATLANTIC 2 80 126 4 5 1,138 1,744 892 721 577 599 Del 5 7 7 7 - 8 10 11 Md 43 2 4 82 140 96 134 189 D.C. 1 2 3 24 82 140 96 134 189 D.C. 1 2 3 240 278 29 39 4 2 Va 7 13 2 10 210 229 111 116 130 W. Va 2 2 1 6 29 26 29 22 N.C 49 35 220 217 89 125 46 57 Ga 1 1 7		-				-							
Nebr		-			-	-		-	-				
Kans. 3 10 6 9 25 34 13 18 15 S.ATLANTIC 2 80 126 - 4 5 5 1,138 1,744 892 721 577 599 Del 5 1 43 2 7 7 7 1 - 8 10 111 Md 1 2 33 2 42 82 1140 96 134 189 D.C. 1 2 3 2 2 10 210 229 111 116 130 W. Va 7 13 - 2 2 1 1 6 29 22 N.C 49 35 1 354 581 80 108 133 60 S.C. 1 1 11 8 2 2 2 2 1 6 147 276 215 208 93 123 Fla 1 1 7 - 2 2 2 2 1 147 276 215 208 93 123 Fla 5 15 15 4 5 13 328 27 281 - 13 55 E.S. CENTRAL - 19 34 - 2 2 1 133 287 281 - 13 55 Kans 1 1 3 3 3 4 2 2 2 1 133 287 281 - 13 55 Ky 15 15 143 79 54 92 5 3 Tenn 4 1 13 - 2 2 2 2 2 3 3 303 117 120 11 28 Ala 1 15 6 7 2 2 2 3 3 303 117 120 11 28 Ala 1 15 6 7 2 2 2 3 3 303 117 120 11 28 Ala 1 1 3 3 31 31 - 1 1 7 7 728 1,266 508 592 34 Ark 1 1 4 - 2 2 2 3 3 303 117 120 11 28 Ark 1 1 4 - 2 2 2 3 3 303 117 120 11 28 Ark 1 1 4 - 2 3 2 3 3 3 3 15 5 467 441 455 - 9 30 Okla 3 20 4 2 15 5 5 595 9 30 Okla 3 3 20 4 2 177 154 66 72 11 12 La 1 4 4 3 355 595 9 30 Okla 3 3 20 4 4 21 50 1 65 10 9 30 Okla 3 3 20 4 4 21 50 1 65 10 9 30 Okla 3 20 4 4 21 50 1 65 10 9 30 Okla 3 20 4 5 5 595 9 30 Okla 3 20 4 5 5 595 9 30 Okla 3 20 4 5 5 595 9 30 Okla 3 20 4 5 5 595 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla 3 20 4 5 5 595 9 9 30 Okla		-			-	-	-	-				12	6
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Va. - 7 13 - - - 210 210 29 111 116 130 W. Va. - - 2 - - - 1 6 29 22 2 N.C. N.C. 4 49 35 - - - 354 581 80 108 133 60 S.C. 1 111 8 - - - 220 217 89 125 45 33 123 133 60 50 161 33 60 50 162 133 287 281 - 13 5 5 60 50 60 133 287 281 - 13 5 5 60 89 120 14 30 120 14 30 120 14 30 30 11 20 11 20 13 40 20 14 30 <		1			-	_							
N.C 49 35 354 581 80 108 133 60 S.C. 1 111 8 220 217 89 125 45 57 Ga 1 17 7 220 217 89 125 208 93 123 Fla 1 3 7 147 276 215 208 93 123 Fla 1 3 5	Va.	-	7	13	-	-		210	210	29	111		130
S.C. 1 111 8 220 217 89 125 45 57 Ga 1 1 7 220 217 89 125 45 57 Ga 1 1 7 147 276 215 208 93 123 Fla 15 15 - 4 5 133 287 281 - 13 5 E.S. CENTRAL - 19 34 - 2 - 1,399 611 356 336 59 60 Ky 15 143 79 54 92 5 3 Tenn 4 13 - 2 - 293 303 117 120 11 28 Ala 15 6 198 229 120 124 43 29 Miss U - U - U - 198 229 120 124 43 29 Miss U - U U 765 U 65 U 65 U - U W.S. CENTRAL 1 31 31 - 1 7 728 1,266 508 592 34 234 Ark 1 4 4 1 5 5 5 595 9 30 Okla 3 20 4 4 21 50 16 6 72 11 12 La 1 1 4 3 355 595 9 30 Okla 3 3 20 4 4 21 50 1 66 14 455 - 176 MOUNTAIN 7 312 110 - 3 3 - 81 212 189 147 28 33 Mont 3 3 2 3 5 5 595 - 1 13 5 5 13 Mont 3 3 2 2 2 7 1 1 1 5 5 6 1 1 6 5 1 4 16 Tex 2 2 7 1 1 1 5 5 6 1 1 6 5 1 4 16 Tex		-			-	-							
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Hawaii - 5 4 - 1 1 1 - 1 53 67 Guam U U - 1 1 1 1 4 7 PR 4 3 94 107 23 50 15 25 V.I 1 U - 1 1 3 Amer. Samoa U - 1 U 2 2 2 2	Calif.							88	285	910	1,505	89	66
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U: Unavailable -: no reported cases

TABLE III. Deaths in 121 U.S. cities,* week ending April 22, 1995 (16th 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 -: no reported cases

TABLE 3. Percentage of persons aged ≤17 years who reported reasons for attempting suicide,* by age and sex — Oregon, 1990–1993[†]

	S	ex	A			
Reason	Male (n=436)	Female (n=1749)	≤12 (n=100)	13–14 (n=640)	15–17 (n=1490)	Total [§] (n=2231)
Family discord	53.9	60.8	73.0	65.0	56.1	59.4
Argument with						
boyfriend/girlfriend	31.0	33.0	8.0	23.1	38.3	32.6
School-related problems	27.5	21.9	32.0	26.9	20.7	23.0
Rape/sexual abuse	4.1	11.2	7.0	13.0	8.7	9.8
Peer pressure/conflict	7.3	8.2	10.0	10.0	7.0	8.0
Substance abuse	15.1	6.0	3.0	5.9	8.9	7.8
Move or new school	5.7	6.0	7.0	8.6	4.8	6.0
Legal system encounters	14.0	2.6	4.0	4.7	5.0	4.8
Death of family						
member/friend	4.8	4.5	6.0	4.2	4.6	4.5
Physical abuse	3.7	3.3	5.0	2.7	3.6	3.4
Suicide of friend/relative¶	4.4	3.1	2.0	4.8	2.8	3.4
Pregnancy	0.9	2.7	_	1.6	2.9	2.4
Other reasons	15.8	14.1	9.0	13.9	15.0	14.4

^{*}Categories are not mutually exclusive because more than one reason may have been reported.

†Source: Oregon Adolescent Suicide Attempt Data System. 1990 was the first full year the reason for the attempt was collected. Only attempts for which reasons were given are included.

§Includes one person for whom sex and age data were missing.

During 1990–1993, persons who had made multiple attempts were more likely to use suffocation/hanging (4.3%) and cutting/piercing (14.3%) than those making attempts for the first time (1.2% and 6.9%, respectively).

Reasons for Suicide Attempt

During 1990–1993, the most commonly reported reasons for attempting suicide were family discord (1492 [59.4%]), an argument with a boyfriend/girlfriend (819 [32.6%]), and school-related problems (578 [23.0%]) (Table 3). A higher proportion of females (60.8%) and persons aged ≤12 years (73.0%) reported family discord as their reason for attempting suicide.

Reported by: DD Hopkins, MS, JA Grant-Worley, MS, DW Fleming, MD, State Epidemiologist, State Health Div, Oregon Dept of Human Resources. National Center for Injury Prevention and Control, CDC.

Editorial Note: In Oregon, during 1988–1993, for every fatal suicide attempt by an adolescent, 31 nonfatal attempts were reported. Some attempts may not have been made with death as a goal but instead may have reflected a desire to resolve a difficult conflict, indicate an intolerable living situation, or elicit sympathy or guilt (1,2).

Oregon is the only state with a legal requirement for reporting suicide attempts and a surveillance system for monitoring such attempts. The reported rate of suicide attempts among adolescents in Oregon during 1988–1993 based on ASADS data is substantially lower than previously reported using survey data. Based on the 1993 Youth Risk Behavior Survey, 2.7% of U.S. high school students reported making a suicide attempt during the previous 12 months that required medical attention (3);

[¶]Includes suicide attempts.

3.2% (i.e., 3200 per 100.000) of Oregon high school students reported such attempts. Because ASADS is hospital-based and includes only attempts by persons who actually seek medical care, the findings may provide more valid information than other sources. For example, data from surveys often rely on the respondents' definition of attempted suicide, and only small proportions of respondents who report having attempted suicide actually have taken a substantive action to injure themselves (4). Furthermore, YRBS may overestimate the prevalence of suicide attempts among high school students. However, ADADS probably underestimates the occurrence of suicide attempts in Oregon for at least four reasons. First, hospital reporting may be incomplete; in addition, reporting hospitals may use different criteria in determining whether a patient attempted suicide. Second, reports of adolescent suicide attempts are not required from clinics or physicians' offices; some attempters may have been treated in these settings, especially those living in rural areas. Third, attempts by adolescents who did not require professional medical care were not reported. Finally, when persons from Oregon receive treatment in another state for a suicide attempt, the event is unreported.

In Oregon, firearms were used most often in fatal suicide attempts, and most attempts involving firearms were fatal. Nationally, 81% of the increase in suicide among persons aged 15–19 years during 1980–1992 was related to use of firearms (5). Controlling access to firearms is an important prevention measure; however, storing weapons unloaded and locked may not prevent intentionally inflicted gunshot wounds among suicidal youth (6). Because an attempt with a gun usually results in death, parents and other persons who have responsibility for children should ensure that at-risk adolescents have no access to guns.

ASADS represents an initial effort to examine the magnitude and epidemiology of intentionally self-inflicted injury among adolescents. This surveillance system was the first statewide system established to quantify the incidence of adolescent suicide attempts and to characterize the attempts and attempters. Although the system still must undergo vigorous evaluation (7), it provides essential information that will be useful in applying public health measures to the problem of suicide (8). Data from ASADS are being used to develop public and private suicide-education programs. For example, the Oregon Health Division has formed a task force to review the data and propose intervention methods. This approach may be adopted for use in other states to permit characterization of persons attempting suicide and to assist in refining prevention and early-intervention measures.

References

- Bolton IM. Perspectives of youth on preventive intervention strategies. In: Alcohol, Drug Abuse, and Mental Health Administration. Report of the Secretary's Task Force on Youth Suicide: Volume 3—prevention and interventions in youth suicide. Washington, DC: US Department of Health and Human Services, Public Health Service, 1989:264–75; DHHS publication no. (ADM)89-1623.
- 2. Committee on Adolescence, American Academy of Pediatrics. Suicide and suicide attempts in adolescents and young adults. Pediatrics 1988;81:322–4.
- 3. Kann L, Warren CW, Harris WA, et al. Youth risk behavior surveillance—United States, 1993. In: CDC surveillance summaries (March). MMWR 1995;44(no. SS-1).
- 4. Meehan PJ, Lamb JA, Saltzman LE, O'Carroll PW. Attempted suicide among young adults: progress towards a meaningful estimate of prevalence. Am J Psychiatry 1992;149:41–4.

- 5. CDC. Suicide among children, adolescents, and young adults—United States, 1980–1992. MMWR 1995;44:289–91.
- 6. Brent DA, Perper JA, Goldstein CE, et al. Risk factors for adolescent suicide: a comparison of adolescent suicide victims with suicidal inpatients. Arch Gen Psychiatry 1988;45:581–8.
- 7. Klaucke DN, Buehler JW, Thacker SB, et al. Guidelines for evaluating surveillance systems. MMWR 1988;37(no. S-5).
- 8. Potter L, Powell K, Kachur S. Suicide prevention from a public health perspective. Suicide Life Threat Behav 1995;25:83–92.

Evaluation of Vaccination Strategies in Public Clinics — Georgia, 1985–1993

From 1987 through 1993, the vaccination coverage levels among children served in public health clinics in Georgia more than doubled. This increase followed the implementation of a multifaceted strategy that included routine measurement of vaccination coverage levels. This report describes this program and an analysis of increases in vaccination coverage during 1985–1993.

In 1985, the Georgia Division of Public Health (GDPH) reviewed the vaccination records of selected public clinics to assess vaccination coverage levels for the recommended childhood vaccines in relation to the national goal of 90% up-to-date by age 2 years. The results indicated that <40% of 2-year-olds served by the public sector had received a complete set of recommended vaccinations (i.e., four doses of diphtheria and tetanus toxoids and pertussis vaccine, three doses of oral poliovirus vaccine, and one dose of measles-mumps-rubella vaccine). In response, GDPH initiated a statewide annual assessment of vaccination coverage levels in public clinics. Information from these assessments assists in a program with four elements: 1) assessment of coverage levels and missed opportunity rates through analysis of birth and vaccination dates obtained for a sample of children from each clinic; 2) feedback of these data to the clinics; 3) issuance of awards (e.g., plaques) to health districts and clinics meeting coverage goals; and 4) dissemination of maps of coverage, rank-order lists, and other information to health district offices and public clinics.

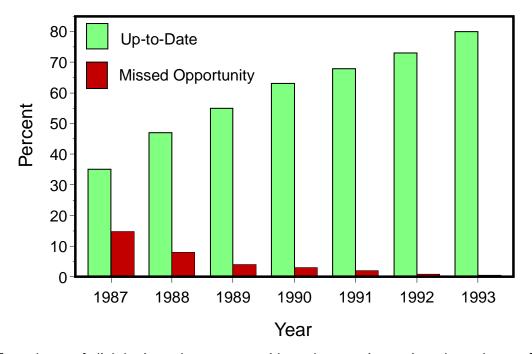
During 1987–1989, participation in the program increased from zero to include all of the approximately 220 public clinics and all 19 health districts in the state; these clinics provide vaccinations to approximately 70% of the state's birth cohort. Among children attending these clinics, the proportion who were up-to-date increased from 35% in 1987 to 80% in 1993 (Figure 1), while the rate of missed simultaneous vaccination opportunities at the last visit declined from 15% to <1%. In 1987, aggregate coverage rates were <50% in 11 of 12 participating districts; in comparison, in 1993, aggregate rates were ≥50% in all 19 districts, >75% in 16, and >90% in three.

Reported by: M Chaney, Georgia Div of Public Health. National Immunization Program, CDC.

Editorial Note: National health objectives for the year 2000 include the goal that at least 90% of children should have completed the basic vaccination series by age 24 months (objective 20.11) (1). However, based on the National Health Interview Survey, in 1993, only 67% of 2-year-olds were up-to-date (2). Although national coverage levels have increased since 1991, intensified efforts are needed to improve provider practices and to encourage parents to ensure their children are vaccinated on schedule.

Vaccination Strategy — Continued

FIGURE 1. Aggregate proportions of children aged 21–23 months who were up-to-date with a complete set of recommended childhood vaccinations* or who had a missed opportunity for simultaneous vaccination at their last clinic visit, by year — Georgia, 1987–1993



^{*}Four doses of diphtheria and tetanus toxoids and pertussis vaccine, three doses of oral poliovirus vaccine, and one dose of measles-mumps-rubella vaccine.

The findings in this report suggest that institution of the multifaceted program in Georgia was associated with increased vaccination coverage. Preliminary findings from other states (e.g., Colorado and South Carolina) employing similar programs are consistent with findings in Georgia and indicate increases in coverage levels (CDC, unpublished data, 1995).

Assessment of vaccination coverage levels of both public and private providers is specified in the *Standards for Pediatric Immunization Practices* (3), and federal funding is provided to each state and local grant program to support assessments in the public and private sectors. States receiving vaccination grant funds during 1995 are required to assess all public health clinics annually.* To assist with these assessments, Clinic Assessment Software Application (4) is available at no charge to public and private providers from the National Immunization Program, CDC, telephone (404) 639-8392.

Efforts are in progress to adapt the assessment methodology to assist private providers in self-assessment. To ensure up-to-date vaccination for children, a high priority is the development and widespread use in the private sector of programs that have been associated in Georgia and other states with increases in vaccination coverage.

^{*}Public Law 103-333.

Vaccination Strategy — Continued

References

- 1. Public Health Service. Healthy people 2000: national health promotion and disease prevention objectives. Washington, DC: US Department of Health and Human Services, Public Health Service, 1991; DHHS publication no. (PHS)91-50213.
- 2. CDC. Vaccination coverage of 2-year-old children—United States, 1993. MMWR 1994;43:705-9.
- 3. Ad Hoc Working Group for the Development of Standards of Immunization Practices. Standards for pediatric immunization practices. JAMA 1993;269:1817–22.
- 4. CDC. Clinic Assessment Software Application (CASA): user's guide. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 1994.

Notice to Readers

Discontinuation of Publication of Figures II-V in MMWR

Figures II–V, which depict reported cases of acquired immunodeficiency syndrome, tuberculosis, gonorrhea, and syphilis, respectively, and have been published quarterly in the *MMWR*, will no longer be published. CDC is evaluating other methods of representing surveillance data in graphs.

Addendum: Vol. 44, No. 4

In the article, "Occupational Silicosis—Ohio, 1989–1994" the following name should be added to the credits ("reported by") on page 63: RJ Blinkhorn, Jr, MD, Cuyahoga County Tuberculosis Program, Cleveland, Ohio.

Erratum: Vol. 44, No. RR-1

In the article "Injury Control Recommendations: Bicycle Helmets," on the inside front cover, David A. Sleet, Ph.D., should be listed as the Acting Director of the Division of Unintentional Injuries Prevention. In addition, on page iv, Nancy Dean Nowak should be listed as Nancy Dean Nowak, R.N., M.P.H., and Benjamin Moore, M.P.H., should be listed without an M.P.H.

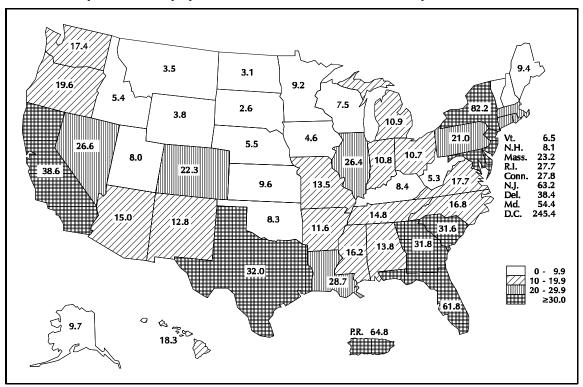
Erratum: Vol. 44, No. 6

In the article, "Prevalence of Recommended Levels of Physical Activity Among Women—Behavioral Risk Factor Surveillance System, 1992," the fifth sentence on page 106 should read "The prevalence of participation in recommended levels was directly related to education level and family income...."

AIDS Map

The following map provides information on the reported number of acquired immunodeficiency syndrome (AIDS) cases per 100,000 population, by person's state of residence from January 1994 through December 1994. More detailed information on AIDS cases is provided in the *HIV/AIDS Surveillance Report*, single copies of which are available free from the CDC National AIDS Clearinghouse, P.O. Box 6003, Rockville, MD 20849-6003; telephone (800) 458-5231 or (301) 217-0023.

AIDS cases per 100,000 population — United States, January-December 1994



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