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# World Health Day — April 7, 1994

MORBIDITY AND MORTALITY WEEKLY REPORT

The theme for World Health Day (April 7, 1994), "Oral Health for a Healthy Life," will be used throughout 1994, the "Year of Oral Health." Worldwide, oral health problems affect persons of all ages; dental caries and gingival infections represent the most common chronic health problems in many countries. For example, in the United States, 84% of persons aged 17 years have evidence of present or past tooth decay; one third of persons aged >65 years are edentulous; approximately half the population has gingival infections; and approximately 30,000 cases of and nearly 8000 deaths from cancers of the oral cavity and pharynx occur each year (1).

World Health Day is cosponsored by 24 health-related organizations including the World Health Organization, the Pan American Health Organization, the American Association for World Health, and the U.S. Department of Health and Human Services. In the United States, examples of scheduled events include presentation of World Health Day awards; a panel discussion featuring leaders in dental research, education, and services delivery; and presentation of a videotape highlighting World Health Day events. Throughout the year, 50,000 resource kits and posters printed in English and Spanish will be distributed in the United States (2), and additional activities are planned by federal agencies, businesses, and professional organizations.

This issue of *MMWR* focuses on oral health and comprises reports about examinations for oral cancer, use of the core functions of public health to improve oral health, and self-reported tuberculin skin testing among Indian Health Service and Federal Bureau of Prisons dentists. Additional information and resource material about World Health Day are available from the American Association for World Health, 1129 20th Street, NW, Suite 400, Washington, DC 20036; telephone (202) 466-5883.

Reported by: Div of Oral Health, National Center for Prevention Svcs, CDC.

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# Current Trends

# Examinations for Oral Cancer — United States, 1992

During 1992, oral cancer (i.e., cancers of the oral cavity and pharynx) was diagnosed in approximately 30,000 persons in the United States and caused nearly 8000 deaths (1); approximately 70% of deaths from oral cancer are associated with smoking (2) and other forms of tobacco use (3). Although the 5-year survival rate (53%) for persons with oral cancer remains low, survival varies by stage at diagnosis (4). Detection of oral cancers by oral examination can reduce morbidity and death associated with this problem (5). To characterize examinations for oral cancer among U.S. adults, CDC analyzed data from the 1992 National Health Interview Survey-Cancer Control (NHIS-CC) supplement. This report summarizes findings from that analysis.

The NHIS-CC supplement collected self-reported information from a representative sample (n=12,035) of the U.S. civilian, noninstitutionalized population aged ≥18 years regarding cancer screening and cancer-risk behaviors. The response rate was 87.0%. Participants were asked, "Have you ever had a test for oral cancer," and were provided a description of the examination (i.e., "in which the doctor or dentist pulls on your tongue, sometimes with gauze wrapped around it, and feels under the tongue and inside the cheeks?") and were asked about cigarette smoking and other tobacco use. Persons reporting that they had had an examination were asked the length of time since the most recent one and the reason for and the type of health professional who performed the examination. Data were weighted to adjust for nonresponse and sample design to provide national estimates. Confidence intervals (CIs) were calculated using standard errors generated by SUDAAN (6).

Overall, 14.3% (95% CI= $\pm$ 0.8%) of respondents reported that they had ever been examined for oral cancer. Having ever received an oral cancer examination varied by demographic characteristics, education, and smoking status (Table 1). Blacks were less likely than whites and Hispanics were less likely than non-Hispanics to report an oral cancer examination. The percentage of adults reporting an examination for oral cancer increased with level of education and with age but was lower for persons aged  $\geq$ 65 years. Current smokers were less likely to report an examination than were former smokers.

Of persons ever examined for oral cancer, 48.7% (95% CI= $\pm$ 3.0%) reported their most recent examination had occurred during the preceding year (Table 1). More than half (54.4%; 95% CI= $\pm$ 3.3%) of respondents who had received oral cancer examinations reported that the most recent one was part of a routine dental examination and more than one third (35.0%; 95% CI= $\pm$ 3.2%) as part of a routine physical examination; small proportions reported that the primary reason was because of a specific oral problem (6.3%; 95% CI= $\pm$ 1.5%) or for other reasons (4.3%; 95% CI= $\pm$ 1.3%).

Among respondents who reported examinations, 67.4% (95% Cl= $\pm$ 3.1%) reported that the most recent one had been performed by a dentist, followed by a physician (23.5%; 95% Cl= $\pm$ 2.9%), a dental hygienist (6.6%; 95% Cl= $\pm$ 1.5%), and another health-care provider (2.5%; 95% Cl= $\pm$ 0.8%).

Oral Cancer — Continued

Reported by: Office on Smoking and Health, Div of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion; Div of Oral Health, National Center for Prevention Svcs, CDC.

Editorial Note: More than three fourths of oral cancers occur in sites that can be readily visualized or palpated (e.g., tongue, 20% of oral cancers; lip, 12%; oropharynx or

# TABLE 1. Percentage of respondents who reported having had an oral cancerexamination ever and during the preceding year, by selected characteristics — UnitedStates, National Health Interview Survey-Cancer Control Supplement, 1992

	Ever had for o	examination ral cancer	Had most recent oral cancer examination within preceding year				
Characteristic	%	(95% CI*)	%	(95% CI)			
Sex							
Female	13.9	(±1.0)	50.5	(± 3.8)			
Male	14.8	(±1.2)	46.8	(± 4.5)			
Age group (yrs)							
18–24	9.0	(±2.0)	37.2	(±10.7)			
25-44	14.4	(±1.1)	50.4	(± 4.4)			
45-64	17.5	(±1.8)	48.6	(± 5.4)			
265	13.3	(±1.6)	50.1	(± 7.2)			
Race							
White	15.2	(±0.9)	49.8	(± 3.2)			
Black	9.0	(±1.8)	29.9	(± 9.0)			
Other	10.7	(±4.2)	9				
Hispanic origin							
Hispanic	9.3	(±1.9)	§				
Non-Hispanic	14.7	(±0.9)	49.5	(± 3.1)			
Education (yrs)							
<12	8.5	(±1.3)	39.4	(± 7.6)			
12	11.4	(±1.1)	45.0	(± 5.2)			
13–15	17.3	(±1.8)	50.4	(± 5.7)			
≥16	22.7	(±2.0)	54.2	(± 4.9)			
Smoking status							
Current <sup>¶</sup>	13.0	(±1.5)	46.4	(± 6.0)			
Former**	16.7	(±1.6)	47.9	(± 5.4)			
Never	13.9	(±1.1)	50.5	(± 4.3)			
Smokeless tobacco use status							
Current <sup>††</sup>	11.2	(±4.1)	§				
Former <sup>§§</sup>	13.8	(±3.4)	\$				
Never	14.5	(±0.9)	48.9	(± 3.1)			
Total	14.3	(±0.8)	48.7	<b>(</b> ± 3.0 <b>)</b>			

\*Confidence interval.

<sup>†</sup>Includes American Indians/Alaskan Natives and Asians/Pacific Islanders.

<sup>§</sup>Number too small for meaningful analysis.

<sup>¶</sup>Respondents who reported having smoked at least 100 cigarettes and who were currently smoking every day or some days at the time of the interview.

\*\*Respondents who reported having smoked at least 100 cigarettes but were not smoking at the time of the interview.

<sup>††</sup>Respondents who reported using snuff and/or chewing tobacco at least 20 times and who were using these products at the time of the interview.

<sup>§§</sup>Respondents who reported using snuff and/or chewing tobacco at least 20 times and who were not using these products at the time of the interview.

# Oral Cancer — Continued

tonsils, 13%; floor of mouth, 11%; and other sites within the oral cavity, 26% [7]) during an oral examination. One of the national health objectives for the year 2000 is to increase to at least 40% the proportion of persons aged  $\geq$ 50 years who have received an oral examination while visiting a primary-care provider during the preceding year (objective 16.14) (5).

The findings in this report indicate that a low proportion of persons reported having had an examination for oral cancer, ever or during the preceding year. At least two explanations may account for these findings. First, clinical health-care providers may not conduct oral examinations routinely or when patients' medical histories indicate the need for an examination. In addition, some clinical health-care providers may not have received appropriate training beyond that needed to conduct a simple oral inspection and thus do not examine or palpate for early clinical signs of oral cancer. Second, the prevalence of oral cancer examinations may be underestimated because some persons made primary-care visits for reasons unlikely to prompt an examination for oral cancer and because some patients may not recall receiving an oral cancer examination, despite a prompting question.

Routine examinations by primary-care providers offer opportunities for primary and secondary prevention. The U.S. Preventive Services Task Force has recommended that clinical health-care providers perform oral examinations for cancerous lesions in patients who use tobacco or excessive amounts of alcohol (8). Persons who may be at risk for oral cancer should be identified and counseled about risk behaviors (e.g., tobacco use) and encouraged to have regular oral examinations. The findings in this report may be used to target efforts to increase oral examinations in underserved groups and others (e.g., racial/ethnic minorities and persons with <12 years of education) and groups at increased risk for oral cancer (e.g., persons who smoke cigarettes or use other tobacco products).

### References

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# Current Trends

# Core Public Health Functions and State Efforts to Improve Oral Health — United States, 1993

Since the 1988 Institute of Medicine report on the future of public health (1), state health agencies (SHAs) have focused on the role of the core functions of public health (i.e., assessment, policy development, and assurance) in improving health in the United States. Oral diseases and conditions are among the most prevalent and preventable chronic health problems in the United States (2). Through use of the core functions as a guideline to identify basic public health practices integral to oral health, SHAs can improve oral health in the United States. To assess the level of involvement among SHAs with core public health functions related to oral health, in January 1994 the Association of State and Territorial Dental Directors (ASTDD) conducted a survey of SHAs in the 50 states and the District of Columbia. This report summarizes the survey findings.

ASTDD mailed a 10-question survey about the three core functions related to oral health to the public health official known by ASTDD to have overall responsibility for oral health activities within the SHA. SHAs that did not respond were contacted by telephone. The response rate for the survey was 100%. Respondents were asked about their involvement in oral health-related assessment activities (i.e., use of prevalence data for oral diseases, conditions, treatment needs, or risk factors and methods of collecting such data) since January 1, 1990, and in policy-development and assurance (i.e., primary and secondary prevention services) activities.

Of the 51 SHAs, 35 (69%) had full-time (minimum of 40 hours worked per week) dental directors, and 16 (31%) had either part-time (mean: 11 hours worked per week; range: 4–20 hours) (n=5) or no directors (n=11). Of the 11 SHAs with no directors, four reported having vacant director positions, and seven reported having no dental program. Of the 44 states with programs, 20 were mandated by specific legislation or authorized by SHAs.

Assessment. The reported level of involvement of SHAs in oral health assessment activities varied substantially (Table 1, page 207). The proportion of states that used selected types of oral health prevalence data ranged from 55% (levels of dental caries among children) to 26% (dental fluorosis). The proportion of states that used selected methods of collecting oral health data ranged from 53% (screenings to assess the dental treatment needs of children) to 31% (statewide dental surveys) (Table 1, page 207). Compared with states with part-time or no dental director, states with full-time directors reported substantially greater involvement in assessment related activities. The difference was greatest for use of prevalence data about dental sealants (Table 1, page 207).

**Policy development.** Seventy-five percent of states reported either "active" or "some" involvement in nine of 12 selected policy-development activities (Figure 1, page 208). The highest levels of active involvement were reported for oral health policies related to fluoride mouthrinsing (67%), water fluoridation (61%), maternal and child health programs for prevention of oral disease (57%), and dental care for low-income persons (53%); the lowest levels were reported for policies related to dental care for underserved populations (i.e., persons who are elderly, human immunodefi-

#### DISEASE DECREASE INCREASE CASES CURRENT 4 WEEKS Aseptic Meningitis 349 Encephalitis, Primary 33 Hepatitis A 1,292 Hepatitis B 687 Hepatitis, Non-A, Non-B 265 Hepatitis, Unspecified 29 Legionellosis 96 Malaria 73 Measles, Total\* 21 Meningococcal Infections 236 Mumps 84 Pertussis 202 Rabies, Animal 483 Rubella 31 0.03125 0.0625 0.25 2 0.125 0.5 1 4 Ratio(Log Scale) † $\mathbb{N}$ BEYOND HISTORICAL LIMITS

# FIGURE I. Notifiable disease reports, comparison of 4-week totals ending March 19, 1994, with historical data — United States

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

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

	Cum. 1994		Cum. 1994
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea <i>Haemophilus influenzae</i> (invasive disease) <sup>†</sup> Hansen Disease Leptospirosis	10,369 6 15 4 9 1 3 20 71,858 227 18 6	Measles: imported indigenous Plague Poliomyelitis, Paralytic <sup>§</sup> Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tularemia Typhoid fever	6 52 - - 3,992 - 5 46 15 2,960 2 52
Lyme Disease	514	i ypnus fever, tickborne (RMSF)	21

# TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending March 19, 1994 (11th Week)

\*Updated monthly; last update February 22, 1994. <sup>†</sup>Of 214 cases of known age, 70 (33%) were reported among children less than 5 years of age. <sup>§</sup>No cases of suspected poliomyelitis have been reported in 1994; 3 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.

Apporting Area         Modeline         Primary Fragmential         Prost-to- invalid         Correct invalid         Correct invalid         An ANB         Prinsel Insect         Legionnet Invalid         Legionnet Invalid <thlegionnet Invalid         <thlegionnet Invalid</thlegionnet </thlegionnet 			Aseptic	Encephalitis				Hepatitis (Viral), by type					
Cum.         Cum. <th< th=""><th>Reporting Area</th><th>AIDS*</th><th>Menin- gitis</th><th>Primary</th><th>Post-in- fectious</th><th>Gono</th><th>rrhea</th><th>А</th><th>В</th><th>NA,NB</th><th>Unspeci- fied</th><th>Legionel- losis</th><th>Lyme Disease</th></th<>	Reporting Area	AIDS*	Menin- gitis	Primary	Post-in- fectious	Gono	rrhea	А	В	NA,NB	Unspeci- fied	Legionel- losis	Lyme Disease
UNITED STATES         10.300         964         114         20         71.858         83.714         3.662         21.66         892         74         289         54           Maine         21         4         5         1         17.12         18.29         66         84         21         12         12         13           Min         18         1         -         1         15         52         4         5         -         -         -         33           VI         6         6         3         -         -         6         11         -		Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994
NEW ENCLAND #83 40 5 1 1,742 1,829 60 84 21 12 12 12 64 Maine 21 4 1 . 1 16 8 2	UNITED STATES	10,369	954	114	20	71,858	83,714	3,682	2,165	892	74	289	514
Milling         21         4         1         1         10         8         2         2         -         100         1017         12         -         -         -         -         -         -         100         1017         12         -         -         -         100         1017         12         -         -         100         1017         11         100         1017         11         100         1017         11         100         1017         11         100         1017         11         100         1017         100         1017         100         1017         100         1017         100         1017         100         1017 <th< td=""><td>NEW ENGLAND</td><td>483</td><td>40</td><td>5</td><td>1</td><td>1,742</td><td>1,829</td><td>60</td><td>84</td><td>21</td><td>12</td><td>12</td><td>64</td></th<>	NEW ENGLAND	483	40	5	1	1,742	1,829	60	84	21	12	12	64
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Piths         246         18         3         1         020         086         21         19         9         12         3         3         14           Conn.         126         -         -         100         1010         1017         112         -         -         -         -         -         61           MD. ATLANTIC         3,752         76         12         6         6,734         8,869         149         171         108         2         34         317           N.Y. City         2,881         -         -         -         181         1352         44         67         45         -         6         49           Pa.         253         41         6         5         2,990         12,750         33         39         10         2         17         98         5         4         1         16         5         2,990         12,44         6         2         6         1         4         2         14         6         3,697         3,422         59         80         54         1         4         1         1         1         14         6         10         1	Vt.	6	3	-	-	6	11	- 77	-	-	-	-	1
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S. Dak.       3       -       -       228       35       9       -       1       100       102       -       -       100	N. Dak.	1	1	1	-	2,245	13	1	-	-	-	-	-
Kans.40221.800 $654$ 1162.11S. ATLANTIC2,2132,24418321,75721,565267628236960102Del.351360300399-140Md.163304-3,9583,44434611121513D.C.16661,8271,222611Va.9435813,0451,366262192211W.Va.4451,62154368-13N.C.1874362,4424710-1-1-Ga.29193,05332326129-22111	S. Dak. Nebr	3 12	- 1	- 1	- 1	28	35 169	9 17	- 2	-	-	- 6	-
S. ATLANTIC       2.213       244       18       3       21.757       21.565       267       628       236       9       60       102         Del       35       1       -       -360       300       3       9       9       -       1       40         Md.       163       30       4       -       3.958       3.444       34       61       11       2       -       15       133         D.C.       166       6       -       -1.1827       1.222       6       11       -       -       -       16       17         Va.       94       35       8       -       -       3.063       32       320       12       -       16       17         S.C.       190       5       -       -       2.4620       5.033       133       109       43       5       12       17         Fan.       110       -       2       2.4620       1.748       29       228       16       14       9       12       17         ES. CENTRAL       1.755       11       -       2.4620       1.748       29       228       184       - <t< td=""><td>Kans.</td><td>40</td><td>22</td><td>1</td><td>-</td><td>800</td><td>854</td><td>11</td><td>6</td><td>2</td><td>-</td><td>1</td><td>1</td></t<>	Kans.	40	22	1	-	800	854	11	6	2	-	1	1
Def. 35 1 360 300 3 9 19 - 1 40 Md. 163 30 4 - 3.95 3.44 34 61 11 2 15 13 D.C. 166 6 1,827 1,222 6 11 W.A. 94 35 8 1 3,045 1,366 26 21 9 2 2 11 W.Va. 4 5 1 62 154 3 6 8 - 1 37 N.C. 187 43 6 - 5,342 4,969 23 75 17 - 6 17 S.C. 90 5 - 2 2,443 2,024 7 10 1 - Ga. 291 9 3.053 32 326 129 - 22 17 Fla. 1,183 110 - 2 4,620 5,033 133 109 43 5 12 1 E.S. CENTRAL 177 67 10 1 9,198 8,101 98 26 190 - 16 3 Ky. 44 29 4 1 946 1,043 43 11 4 - 1 1 Tenn. 53 19 5 - 2,602 1,748 29 228 184 - 9 1 Ala. 50 15 1 - 3,462 3,233 12 17 2 - 4 1 Miss. 30 4 - 2,188 2,077 14 2 2 - 2 - 4 MK. 23 4 - 2,188 2,077 14 2 2 - 2 - 2 TAK. 23 4 - 2,188 2,077 14 2 - 2 - 2 Tak. 1,091 36 3 - 3,260 5,980 449 115 4 15 Coka. 19 494 643 48 73 38 - 7 22 Tex. 1,091 36 3 - 3,260 5,980 449 115 4 15 MOUNTAIN 184 21 2 - 1,636 2,430 684 49 215 MOUNTAIN 184 21 2 - 1,636 2,430 684 49 115 4 15 Coka. 19 27 13 8 6 MOUNTAIN 184 21 2 - 1,636 2,430 684 49 115 4 15 MOUNTAIN 184 21 2 - 1,636 2,430 684 49 115 4 15 Coka. 19 Coka. 19 27 13 8 6 P MOUNTAIN 184 21 2 - 1,636 2,430 684 49 115 4 15 MOUNTAIN 184 21 2 - 1,636 2,430 684 49 115 4 15 MOUNTAIN 184 21 2 - 2,163 2,430 684 40 31 7 - 1 W.S. CENTRAL 1,255 41 - 1 - Colo. 62 6 P. 24 15 5 5 18 - 1 - Colo. 62 6 P. 24 15 5 5 18 - 1 - Colo. 62 6 P. 24 15 5 5 18 - PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Ariz, 45 6 PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Alaxsa 8 4 1 - 179 112 53 2 PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Alaxsa 8 4 1 PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Alaxsa 8 4 1 PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Alaxsa 8 4 1 PACIFIC 1,388 214 24 1 - PACIFIC 1,388 214 24 - PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Alaxsa 8 4 1 - PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Alaxsa 8 4 1 - PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403	S. ATLANTIC	2,213	244	18	3	21,757	21,565	267	628	236	9	60	102
D.C. 166 6 1,827 1,222 6 111	Md.	35 163	30	- 4	-	360 3,958	300 3,444	3 34	61	19	2	15	40 13
	D.C.	166	6	-	- 1	1,827	1,222	6	11	-	-	- ว	- 11
N.C. 187 43 6 - 5,342 4,969 23 75 17 - 6 17 S.C. 90 5 - 2,243 2024 7 10 - 1 7 Ga. 291 9 7 3053 32 326 129 - 22 17 Fla. 1,183 110 - 2 4,620 5,033 133 109 43 5 12 1 E.S. CENTRAL 177 67 10 1 9,198 8,101 98 256 190 - 16 3 Ky. 44 29 4 1 9,46 1,043 43 11 4 - 1 1 Tenn. 53 19 5 - 2,602 1,74 29 228 184 - 9 1 Ala. 50 15 1 - 3,462 3,233 12 17 2 - 4 1 Miss. 30 4 - 2,188 2,077 14 2 2 Ky. S. CENTRAL 1,255 41 4 - 8,226 10,829 523 219 58 15 8 2 Ark. 23 4 - 1,471 2,022 8 5 1 - 1 - 1 Chan 19 - 1 - 3,001 2,184 18 26 15 - 1 Chan 19 444 643 48 73 38 - 7 2 Tex. 1,091 36 3 - 3,260 5,980 449 115 4 15 Chan 19 2 163 2,277 13 8 6 - 9 - Tex. 1,091 36 244 15 5 5 18 - 1 MOUNTAIN 184 21 2 - 1,636 2,430 684 102 73 5 21 4 Mont 4 - 2 - 246 15 5 - 1 Chan 1 - 244 15 5 5 18 - 1 Colo. 62 6 4494 880 32 3 6 2 1 - 1 Wyo 72 65 80 5 7 Colo. 62 6 244 15 5 5 18 - 1 Colo. 62 6 246 15 5 Colo. 62 6 246 15 5 Nev. 40 4 2 - 126 227 227 42 4 2 1 3 Ariz. 45 6 2 726 5 80 5 7 7 Nev. 40 4 2 - 436 440 41 7 4 - 8 PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Ariz. 45 6 2 72 65 80 5 7 7 Nev. 40 4 2 - 436 440 41 7 4 - 8 PACIFIC 1,388 3 PACIFIC 1,388 4 1 - 179 112 53 2 Nev. 40 4 2 PACIFIC 1,388 3 PACIFIC 1,388 3 - PACIFIC 1,388 4 1 - 179 112 53 2 PACIFIC 1,388 3 - PACIFIC 1,388 - PACIFIC 1,388 3 - PACIFIC 1,388 - PACIFIC 1,388 3 - PACIFIC 1,388	W. Va.	94 4	5	0 -	-	162	1,300	20	6	8	-	1	3
Constraint	N.C.	187	43	6	-	5,342 2 443	4,969	23	75 10	17		6 1	17
Fla.       1,183       110       -       2       4,620       5,033       133       109       43       5       12       1         E.S. CENTRAL       177       67       10       1       9,198       8,101       98       256       190       -       16       3         Ky.       44       29       4       1       946       1,043       43       11       4       -       1       1         Tenn.       53       19       5       -       2,602       1,748       29       228       184       -       9       1         Ala.       50       15       1       -       3,462       3,233       12       17       2       -       4       1         Wiss.       23       4       -       -       1,471       2,022       8       5       1       -       1       -       2       -       0       0       1       -       -       2       -       0       0       15       4       1       1       -       -       -       -       2       1       1       -       -       -       2       2       1       1 <td>Ga.</td> <td>291</td> <td>9</td> <td>-</td> <td>-</td> <td>2,445</td> <td>3,053</td> <td>32</td> <td>326</td> <td>129</td> <td>-</td> <td>22</td> <td>17</td>	Ga.	291	9	-	-	2,445	3,053	32	326	129	-	22	17
E.S. CENTRAL 177 67 10 1 9198 8,101 98 256 190 - 16 3 Ky. 44 29 4 1 946 1,043 43 11 4 - 1 1 1 Tenn. 53 19 5 - 2,602 1,748 29 228 184 - 9 1 Ala. 50 15 1 - 3,462 3,233 12 17 2 - 4 1 Miss. 30 4 - 2,188 2,077 14 2 W.S. CENTRAL 1,255 41 4 - 1,471 2,022 8 5 1 - 1 - 1 La. 122 1 1 - 3,001 2,184 18 26 15 Okla. 19 494 643 48 73 38 - 7 2 Tex. 1,091 36 3 - 3,260 5,980 449 115 4 15 MOUNTAIN 184 21 2 - 1,636 2,430 664 102 73 5 21 4 Mont. 4 2 18 6 - 9 - Idaho 1 2 16 25 65 20 30 1 - 1 Colo. 62 6 24 15 5 5 18 - 1 - 1 Colo. 62 6 24 15 5 5 18 - 1 - 1 Colo. 62 6 24 15 5 5 18 - 1 - 1 Colo. 62 6 24 65 77 - 2 Utah 11 2 - 72 65 80 5 7 Nev. 40 4 2 - 2 436 440 41 7 4 - 8 PACIFIC 1,388 214 24 1 4,699 8,157 1,413 403 99 27 18 13 Wash. 157 25 65 75 18 15 - 4 Oreg. 63 25 329 73 12 2 1 Calif. 1,111 171 23 - 3341 6,808 1,202 355 78 24 13 13 Wash. 157 25 32 99 73 12 2 1 Calif. 1,111 171 23 - 3413 6,808 1,202 355 78 24 13 13 Wash. 157 19 20 Calif. 1,111 171 23 - 3413 6,808 1,202 355 78 24 13 13 Wash. 157 19 20 Calif. 1,111 171 23 - 3413 6,808 1,202 355 78 24 13 13 Wash. 157 Calif. 1,111 171 23 - 3413 6,808 1,202 355 78 24 13 13 Wash. 157	Fla.	1,183	110	-	2	4,620	5,033	133	109	43	5	12	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	E.S. CENTRAL Kv.	44	67 29	10	1	9,198 946	8,101	98 43	256 11	190	-	16	3
Ala.50151- $3,462$ $3,233$ 12172-41Miss.304 $2,188$ $2,077$ 142-W.S. CENTRAL1,255414- $8,226$ $10,829$ $523$ $219$ $58$ $15$ 82Ark.234 $1,471$ $2,022$ 8 $5$ $1$ - $1$ -La.19 $494$ $643$ $48$ 73 $38$ -72Tex. $1,091$ $36$ $3$ - $3,260$ $5,980$ $449$ $115$ $4$ $15$ MOUNTAIN184 $21$ $2$ - $1,636$ $2,430$ $684$ $102$ $73$ $5$ $21$ $4$ Mont. $4$ $27$ $13$ $8$ $6$ - $9$ -Idaho1 $27$ $13$ $8$ $6$ - $9$ -Idaho1 $27$ $13$ $8$ $6$ - $9$ -Idaho1 $216$ $227$ $227$ $42$ $4$ $2$ $1$ Nex. $21$ $3$ - $216$ $227$ $227$ $42$ $4$ $2$ $1$ Nikex. $21$ $3$ - $216$ $227$ $227$ $42$ $4$ $2$ $1$ Nev.4	Tenn.	53	19	5	-	2,602	1,748	29	228	184	-	9	1
W.S. CENTRAL1,255414-8,22610,829523219581582Ark.234-1,4712,022851-1-La.12211-3,0012,184182615Okla.19494643487338-72Tex.1,091363-3,2605,980449115415MOUNTAIN184212-1,6362,430684102735214Mont.42713869-Idaho116256520301-1Wyo24155518-1-Colo.626494880323621Mex.213216227227424213Nev.4042-7225751815PACIFIC1,3882142414,6998,1571,413403992718133A <td>Ala. Miss.</td> <td>50 30</td> <td>15</td> <td>-</td> <td>-</td> <td>3,462 2,188</td> <td>3,233 2,077</td> <td>12 14</td> <td>- 17</td> <td>2</td> <td>-</td> <td>4 2</td> <td>-</td>	Ala. Miss.	50 30	15	-	-	3,462 2,188	3,233 2,077	12 14	- 17	2	-	4 2	-
Ark.2341,4712,022851-1-La.12211-3,0012,184182615Okla.19494643487338-72Tex.1,091363-3,2605,980449115415MOUNTAIN184212-1,6362,430664102735214Mont.42713869-Idaho116256520301-1-Colo.626494880323621-Colo.62672658057-1-Colo.62672658057Ariz.45672658057Nev.404214,6998,1571,41340399271813PACIFIC1,3882142414,6998,1571,4134039927181313Alask	W.S. CENTRAL	1,255	41	4	-	8,226	10,829	523	219	58	15	8	2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ark.	23 122	4	- 1	-	1,471	2,022	8 18	5 26	1 15	-	1	-
Tex.1,091363-3,2605,980449115415MOUNTAIN184212-1,6362,430684102735214Mont.42713869-Idaho116256520301-1Wyo24155518-1-Colo.626494880323621-N. Mex.213216227227424213Ariz.45672658057Utah11272658057Nev.4042-4364404174-8-PACIFIC1,3882142414,6998,1571,41340399271813Wash.157253299731221Calif.1,11117123-3,4136,8081,20235578241313Alaska84	Okla.	19	-	-	-	494	643	48	73	38	-	7	2
MOUNTAIN       184       21       2       -       1,636       2,430       684       102       73       5       21       4         Mont.       4       -       -       27       13       8       6       -       9       -         Idaho       1       -       -       16       25       65       20       30       1       -       1         Wyo.       -       -       -       24       15       5       5       18       -       1       -         Colo.       62       6       -       -       244       15       5       5       18       -       1       -         Colo.       62       6       -       -       216       227       227       42       4       2       1       3         Ariz.       45       6       -       -       351       765       226       14       4       -       1       -         Nev.       40       4       2       -       436       440       41       7       4       -       8       -         PACIFIC       1,388       214       24	Tex.	1,091	36	3	-	3,260	5,980	449	115	4	15	-	-
Idaho       1       -       -       -       16       25       65       20       30       1       -       1         Wyo.       -       -       -       24       15       5       5       18       -       1       -         Colo.       62       6       -       -       494       880       32       3       6       2       1       -         N. Mex.       21       3       -       -       216       227       227       42       4       2       1       3         Ariz.       45       6       -       -       351       765       226       14       4       -       1       -         Utah       11       2       -       -       72       65       80       5       7       -       -       -       -       Nev.       40       4       2       -       436       440       41       7       4       -       8       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	MOUNTAIN Mont.	184	- 21	2	-	1,636	2,430	684 8	102	/3	5	21	4
wyo24155518-1-Colo.6264948803236213N. Mex.213216227227424213Ariz.456351765226144-1-Utah11272658057Nev.4042-4364404174-8-PACIFIC1,3882142414,6998,1571,41340399271813Wash.157680855751815-4-Oreg.63253299731221Calif.1,11117123-3,4136,8081,20235578241313Alaska841-179112532Guam117110856132P.R.2094117110856132Quam-	Idaho	1	-	-	-	16	25	65	20	30	1	-	1
N. Mex. $21$ $3$ $216$ $227$ $227$ $42$ $4$ $2$ $1$ $3$ Ariz. $45$ $6$ $351$ $765$ $226$ $14$ $4$ - $1$ -Utah $11$ $2$ - $72$ $65$ $80$ $5$ $7$ Nev. $40$ $4$ $2$ - $436$ $440$ $41$ $7$ $4$ - $8$ -PACIFIC $1,388$ $214$ $24$ $1$ $4,699$ $8,157$ $1,413$ $403$ $99$ $27$ $18$ $13$ Wash. $157$ $680$ $855$ $75$ $18$ $15$ - $4$ -Oreg. $63$ $253$ $299$ $73$ $12$ $2$ $1$ Calif. $1,111$ $171$ $23$ - $3,113$ $6,808$ $1,202$ $355$ $78$ $24$ $13$ $13$ Alaska $8$ $4$ 1- $179$ $122$ $2$ Hawaii $49$ $39$ -1 $174$ $83$ $10$ $16$ $4$ $2$ $1$ P.R. $209$ $4$ $117$ $110$ $8$ $56$ $13$ $2$ P.R. $209$ $4$ $7$ $7$ $2$ Oreg.<	Colo.	62	- 6	-	-	24 494	880	32	3	6	2	1	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	N. Mex.	21 45	3	-	-	216	227	227	42	4	2	1	3
Nev.       40       4       2       -       436       440       41       7       4       -       8       -         PACIFIC       1,388       214       24       1       4,699       8,157       1,413       403       99       27       18       13         Wash.       157       -       -       -       680       855       75       18       15       -       4       -         Oreg.       63       -       -       -       253       299       73       12       2       1       -       -         Calif.       1,111       171       23       -       3,413       6,808       1,202       355       78       24       13       13         Alaska       8       4       1       -       179       112       53       2       -       -       -       -         Hawaii       49       39       -       1       174       83       10       16       4       2       1       -         Guam       -       -       -       117       110       8       56       13       2       -       -       -	Utah	43	2	-	-	72	65	80	5	7	-	-	-
PACIFIC       1,388       214       24       1       4,699       8,157       1,413       403       99       27       18       13         Wash.       157       -       -       -       680       855       75       18       15       -       4       -         Oreg.       63       -       -       253       299       73       12       2       1       -       -       -         Calif.       1,111       171       23       -       3,413       6,808       1,202       355       78       24       13       13         Alaska       8       4       1       -       179       112       53       2       -	Nev.	40	4	2	-	436	440	41	7	4	-	8	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	PACIFIC Wash	1,388 157	214	24	1	4,699 680	8,157 855	1,413 75	403 18	99 15	27	18 4	13
Calif.       1,111       1/1       23       -       3,413       6,808       1,202       355       /8       24       13       13         Alaska       8       4       1       -       179       112       53       2       -	Oreg.	63	-	-	-	253	299	73	12	2	1	-	-
Hawaii     49     39     -     1     174     83     10     16     4     2     1     -       Guam     -     -     -     19     20     -     -     -     -     -     -       P.R.     209     4     -     -     117     110     8     56     13     2     -     -       V.I.     5     -     -     8     20     -     1     -     -     -       Amer. Samoa     -     -     7     7     2     -     -     -       C.N.M.I.     1     -     -     14     12     1     -     -     -	Callit. Alaska	1,111 8	1/1	23	-	3,413	6,808 112	1,202	355	/8	24	- 13	13
Guam       -       -       -       19       20       - <td>Hawaii</td> <td>49</td> <td>39</td> <td>-</td> <td>1</td> <td>174</td> <td>83</td> <td>10</td> <td>16</td> <td>4</td> <td>2</td> <td>1</td> <td>-</td>	Hawaii	49	39	-	1	174	83	10	16	4	2	1	-
r.n. 207 4 117 110 6 30 13 2 V.I. V.I. 5 8 20 - 1	Guam	-	-	-	-	19 117	20	-	- ⊑4	- 10	- ว	-	-
Amer. Samoa 7 7 2	V.I.	209	4	-	-	8	20	d -	1	-	-	-	-
	Amer. Samoa C.N.M.I.	- 1	-	-	-	7 14	7 12	2 1	-	-	-	-	-

# TABLE II. Cases of selected notifiable diseases, United States, weeks ending March 19, 1994, and March 20, 1993 (11th Week)

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

\*Updated monthly; last update February 22, 1994.

			Measle	s (Rube	ola)		Menin-								
Reporting Area	Malaria	Indig	enous	Impo	orted*	Total	gococcal Infections	Mu	mps	F	Pertussis	s		Rubella	a
	Cum. 1994	1994	Cum. 1994	1994	Cum. 1994	Cum. 1993	Cum. 1994	1994	Cum. 1994	1994	Cum. 1994	Cum. 1993	1994	Cum. 1994	Cum. 1993
UNITED STATES	194	4	52	-	6	76	711	14	248	37	673	661	3	61	36
NEW ENGLAND	20	1	4	-	-	41	44	-	8	5	54	180	3	43	1
Maine N H	1	-	-	-	-	-	6 1	-	3	-	2 17	3 86	-	-	1
Vt.	1	-	-	-	-	23	1	-	-	-	7	27	-	-	-
Mass. R I	6 4	- 1	1		-	10	20	-	- 1	1	22	58 1	3	43	-
Conn.	5	-	-	-	-	8	16	-	2	1	4	5	-	-	-
MID. ATLANTIC	24	-	3	-	1	6	59	1	24	20	167	104	-	4	15
Upstate N.Y.	8	-	2	-	-	1	27	1	3	12	58	35	-	4	1
N.J.	12	-	-	-	-	4	15	-	-	o -	- 52	25	-	-	6
Pa.	4	U	-	U	1	-	17	U	21	U	77	42	U	-	1
E.N. CENTRAL	19	-	3	-	1	-	105	3	44	3	107	151	-	2	1
Ind	2	-	-	-	-	-	26 22	2	8	1	55 15	60 8	-	-	-
III.	3	-	-	-	-	-	35	-	20	÷	11	19	-	2	-
Mich. Wis	8		- 2		- 1		11 11	3	14	1	21	8 56		-	- 1
WN CENTRAL	6		2				49		Q		21	25		_	1
Minn.	3	-	-	-	-	-	5	-	-	-	8	- 25	-	-	-
lowa Mo	1	-	-	-	-	-	5	-	3	-	1	- 11	-	-	- 1
N. Dak.	-	-	-	-	-	-	- 25	-	1	-	-	1	-	-	-
S. Dak.	-		-		-	-	4		-		-	1		-	-
Nebr. Kans.	-	U -	-	U -	-	-	9	- -	-	U -	6	4 8	U -	-	-
S. ATLANTIC	54	-	6	-	-	13	127	3	48	5	101	40	-	5	3
Del.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1
D.C.	20	-	-	-	-	-	8 1	-	8	4	33	- 16	-	-	-
Va.	8	-	1	-	-	1	18	-	10	-	12	2	-	-	-
W. Va. N.C.	- 1	-	-	-	-	-	6 24	-	2 16	-	1 31	1	-	-	-
S.C.	1	-	-	-	-	-	4	-	5	-	7	2	-	-	-
Ga.	7	-	- 5	-	-	- 11	18 48	1	2	-	6	8	-	- 5	- 1
ES CENTRAL	5	1	22				40 54	1	1		22	25		5	
Ky.	-	-	-	-	-	-	14	-	-	-	2	7	-	-	-
Tenn.	3	1	22	-	-	-	13	-	-	-	13	9	-	-	-
Miss.	1	-	-	-	-	-	6	1	4	-	-	2	-	-	-
W.S. CENTRAL	5	2	5	-	1	1	89	2	56	-	24	8	-	-	1
Ark.	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-
Okla.	- 1	-	-	-	-	-	8	-	4 14	-	20	7	-	-	- 1
Tex.	4	2	5	-	1	-	61	1	38	-	3	-	-	-	-
MOUNTAIN	4	-	1	-	-	2	49	1	7	3	35	38	-	-	4
Idaho	- 2	-	- 1	-	-	-	2 10	- 1	- 3	2	2 16	- 6	-	-	- 1
Wyo.	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-
N. Mex.	- 1	-	-	-	-	2	2	N	N	-	5	12	-	-	-
Ariz.	-	-	-	-	-	-	17	-	-	-	6	3	-	-	-
Utah Nev.	- 1	-		-	-		8 4	-	1	1	3	4	-	-	2
PACIFIC	57	-	8	-	3	13	135	3	48	1	142	90	-	7	10
Wash.	1	-	-	-	-	-	11	-	2	-	11	6	-	-	-
Oreg. Calif.	2 45	-	- 8	-	- 3	3	15 104	N 3	N 41	-	16 109	- 79	-	-7	1 5
Alaska	-	-	-	-	-	-	1	-	2	-	-	1	-	-	1
Hawaii	9	-	-	-	-	10	4	-	3	1	6	4	-	-	3
Guam PR	-	U	1 5	U	-	- 80	- 2	U	- ว	U	-	-	U	-	-
V.I.	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Amer. Samoa	- 1	- 1	- วว	-	-	1	-	-	1	-	1	2	-	-	-
0.11.111.1.	I	1	20	-	-	-	-	-	-	-	-	-	-	-	-

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending March 19, 1994, and March 20, 1993 (11th Week)

\*For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable <sup>†</sup> International <sup>§</sup> Out-of-state

Reporting Area	Syp (Primary &	hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1993	Cum. 1994	Cum. 1994	Cum. 1994	Cum. 1994
UNITED STATES	3,992	6,000	46	2,960	3,267	2	52	21	1,010
NEW ENGLAND	40	99	1	70	34	-	8	1	341
Maine N.H.	-	2 11	-	- 2	3	-	-	-	44
Vt.	- 11	-	- 1	-	-	-	-	- 1	30
R.I.	5	45	-	8	o -	-	4	-	5
Conn.	24	39	-	30	21	-	3	-	127
MID. ATLANTIC	268 25	472 54	8	424 42	690 97	-	4	-	107
N.Y. City	147	325	-	238	427	-	-	-	-
N.J. Pa.	40 56	74 19	- 3	96 48	84 82	-	2	-	67 40
E.N. CENTRAL	464	961	16	310	404	-	9	2	2
Ohio	211	258	6	49	51	-	1	1	-
III.	109	359	3	179	233	-	4	-	-
Mich. Wis	65 17	142 114	6	43 10	73 13	-	3	1	- 2
W.N. CENTRAL	266	390	7	69	57	2	-	1	29
Minn.	11	24	-	11	-	-	-	-	-
Mo.	228	316	5 1	38	34	2	-	-	4
N. Dak.	-	-	-	1	3	-	-	-	- 1
Nebr.		3	1	-	4	-	-	-	-
Kans.	16	25	-	6	7	-	-	-	11
S. AILANTIC Del.	1,225	1,581	-	525	536	-	- 13	14	362
Md.	54	85	-	55	73	-	2	-	123
Va.	151	127	-	66	112	-	-	-	75
W. Va.	5 414	1 405	-	17 70	16 73	-		- 7	13 32
S.C.	132	274	-	70	78	-	-	-	31
Ga. Fla.	200 208	286 294	- 1	197 22	152	-	- 10	7	77
E.S. CENTRAL	852	653	1	176	191	-	-	1	33
Ky.	57	62	- 1	60 1	58	-	-	-	-
Ala.	148	186	-	85	- 99	-	-	-	24
Miss.	447	281	-	30	34	-	-	1	-
W.S. CENTRAL Ark	826 117	1,437 256	-	240 51	223 22	-	2	1	71 5
La.	447	501	-	-	-	-	1	-	14
Tex.	252	601	-	18	23 178	-	- 1	-	37
MOUNTAIN	42	54	2	95	78	-	5	-	14
Mont. Idaho	- 1	-	- 1	-	- 1	-	-	-	-
Wyo.	-	1	-	3	-	-	-	-	4
N. Mex.	25 1	20 10	-	15	-	-	2	-	-
Ariz.	10	21	-	50	50	-	-	-	10
Nev.	-	1	-	20	19	-	2	-	-
PACIFIC	9	353	10	1,051	1,054	-	11	1	51
Wash. Oreg.	6 2	11 18	-	41 18	44 10	-	1	-	-
Calif.	-	322	9	935	935	-	9	1	34
Alaska Hawaii	- 1	1 1	- 1	9 48	8 57	-	- 1	-	- 1/
Guam	-	-	-	7	16	-	-	-	-
P.R. VI	73 4	118 11	-	-	24 2	-	-	-	17
Amer. Samoa	-	-	-	-	1	-	1	-	-
C.N.M.I.	1	-	-	13	5	-	-	-	-

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending March 19, 1994, and March 20, 1993 (11th Week)

U: Unavailable

	А	II Cau	ses, By	/ Age (Y	'ears)		P&I <sup>†</sup>	D&I <sup>†</sup>		All Causes, By Age (Years)					P&I <sup>†</sup>
Reporting Area	All Ages	<u>≥</u> 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. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.	641 190 38 23 55 19 12 28 42 45 7 48 42	446 115 29 20 15 36 16 9 22 28 34 5 39 32	107 34 6 6 12 3 1 2 8 8 8 2 4 4	63 27 2 2 6 - 1 4 3 1 - 5 4	15 9 - 1 - 2 2 - -	9 4 - - 1 - 1 - 2	71 23 2 1 3 2 1 5 7 1 5 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.	1,362 193 294 85 123 115 53 93 49 73 167 93 24	828 102 1700 39 87 56 29 60 38 58 115 54 20	263 45 55 14 20 29 14 23 8 8 29 15 3	185 28 49 28 10 21 6 7 1 3 18 13 13	48 7 14 3 7 - 2 2 2 8 -	35 11 6 1 2 4 1 2 2 3 -	77 5 19 5 10 2 3 3 9 3 17 1 -
Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§	64 2,889 50 24 100 45 25 40	46 1,871 31 18 54 33 18 33	11 564 11 5 20 7 3 4	6 327 5 1 18 3 2	1 63 1 5 2 1 1	- 64 2 - 3 - -	15 152 2 3 2 5	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn.	845 133 78 82 119 173 84 59 117	575 85 57 92 117 57 38 74	145 29 6 13 15 35 13 12 22	90 12 13 9 6 14 13 8 15	18 2 2 1 7 1 1	17 4 2 1 5 - 5	76 8 9 15 22 2 1 13
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	56 1,387 U 34 683 108 10 126 31 30 77 45 18 U	38 860 U 18 436 68 5 99 25 26 60 33 16 U	6 285 U 145 24 25 5 3 11 10 2 U	9 186 U 2 67 12 9 1 - 5 2 - U	1 28 U 1 20 1 1 U	2 28 U 7 15 3 - 2 - 1 1 - 1 U	53 U 1 51 12 2 6 1 2 8 4 U	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Houston, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	1,449 64 50 49 189 65 68 404 69 91 217 75 108	889 42 26 36 109 41 43 219 40 56 136 58 83	307 8 9 6 49 15 12 101 15 20 46 11 15	156 9 8 3 20 5 7 54 5 9 27 3 6	49 1 6 2 6 1 3 19 6 2 3 -	48 4 2 5 3 3 11 3 4 5 3 4	90 6 1 3 4 5 28 5 28 5 18 5 10
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind.	2,203 39 40 528 156 153 126 116 222 39	1,378 27 28 221 106 103 76 82 130 28	387 8 5 86 27 27 29 26 49 6	243 1 4 119 9 14 12 5 25 4	125 1 77 6 4 2 10	70 2 25 8 3 5 1 8	155 5 38 26 1 5 5 6 2	MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Sait Lake City, Utah Tucson, Ariz.	925 98 126 162 25 190 27 92 156	627 67 34 75 105 18 122 23 67 116	167 12 7 31 42 4 31 18 21	76 11 7 11 7 2 21 3 4 10	30 4 1 2 6 1 8 - 1 7	23 4 6 1 - 8 - 2 2	90 5 9 11 4 23 1 23 9
Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	66 16 180 48 146 35 43 45 94 69	49 35 125 41 104 28 37 72 52	9 7 4 33 - 29 5 8 5 12 12	2 3 1 3 5 9 - 5 2 8 2	3 1 6 2 - 2 2 1 1	3 - 1 3 - 4 - 1 1 2	3 12 9 11 9 4 5 - 9 4	PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif.	1,849 12 96 27 72 107 398 26 139 151 211	1,308 7 62 20 55 80 273 23 98 111 142	274 5 14 6 13 59 3 20 24 31	184 - 9 1 8 5 45 - 17 11 26	49 6 - 2 4 17 - 2 2 6	33 5 1 5 3 2 3 6	136 11 10 7 18 1 6 16 23
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr.	722 77 31 34 122 U	494 57 19 22 88 U	148 16 8 7 23 U	37 2 1 1 7 U	20 1 3 2 U	23 1 2 1 2 U	41 5 2 6 U	San Francisco, Cali San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash.	f. 135 180 23 148 43 81	91 126 18 111 32 59	24 33 15 6 12	17 18 1 16 4 6	1 2 4 1 2	2 1 1 2 - 2	4 18 4 7 3 7
IVIInneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	160 71 121 44 62	111 43 83 31 40	32 19 23 9 11	/ 5 7 2 5	3 3 2 2	/ 1 5 - 4	11 2 6 6 1	TOTAL	12,885 <sup>¶</sup>	8,416	2,362	1,361	417	322	888

# TABLE III. Deaths in 121 U.S. cities,\* week ending March 19, 1994 (11th 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.

<sup>†</sup>Pneumonia and influenza.

<sup>9</sup>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. <sup>1</sup>Total includes unknown ages.

U: Unavailable.

#### Oral Health — Continued

TABLE 1. Reported use by state health agencies of oral health prevalence data and methods of collecting such data, by employment status of dental director — United States,\* 1990–1993

	Employ	ment statu	director				
	States with full-time <sup>†</sup> dental director (n=35)		States part-tir dental c (n=	s with me <sup>§</sup> /no lirector <sup>¶</sup> :16)	Total (n=51)		
Category	No.	(%)	No.	(%)	No.	(%)	
<b>Types of prevalence data used</b> Dental caries among children Tobacco use Dental sealants Baby bottle caries Oral cancer Dental fluorosis	24 20 23 13 11 12	(69) (57) (66) (37) (31) (34)	4 6 2 3 3 1	(25) (38) (13) (19) (19) ( 6)	28 26 25 16 14 13	(55) (51) (49) (31) (28) (26)	
Methods of collecting prevalence data Screenings to assess dental treatment needs of children Clinical program data Behavioral Risk Factor Surveillance System dental questions	21 17 17	(60) (49) (49)	6 5 3	(38) (31) (19)	27 22 20	(53) (43) (39)	
Statewide dental survey	14	(40)	2	(13)	16	(31)	

\* The 50 states and the District of Columbia.

<sup>†</sup>Minimum of 40 hours worked per week.

<sup>§</sup>Mean hours worked per week=11 (range: 4–20 hours).

<sup>¶</sup>Of the 11 states with no dental director, four had vacant director positions, and seven had no dental program.

ciency virus-infected, or eligible for Medicaid). Compared with states with part-time or no dental director, states with full-time directors reported involvement in three times as many policy-development activities.

**Assurance.** Forty-three (84%) states reported that basic oral health education or fluoride-related prevention services were provided in schools; 12 (26%) of 47 states reported that they provided dental restorations (secondary prevention). Of 24 (47%) states that provided dental sealants to children through school-based programs, 20 (83%) had full-time dental directors.

Reported by: Association of State and Territorial Dental Directors. Div of Oral Health, National Center for Prevention Svcs, CDC.

**Editorial Note**: The findings in this report document the variable presence of activities related to core public health functions for oral health in the 50 states and the District of Columbia. The presence of all three core functions was greater in states with full-time dental directors than in those with part-time or no directors or no dental program.

Assessment activities provide decision makers with information for policydevelopment and assurance activities. However, only 56% of SHAs reported involvement in oral health assessment activities, while 82% have reported involvement in general health assessment activities (3). Cost-effective programs that address priority oral health needs are most appropriately based on information representative of

### Oral Health — Continued

groups within a state. Although SHAs conduct surveillance for reportable diseases and conditions, no oral diseases are reportable. Some states have used screenings, surveys, and the Behavioral Risk Factor Surveillance System to estimate oral disease morbidity in defined populations. These assessments permit analysis of factors associated with particular oral health needs and assist in targeting prevention interventions to those at greatest risk for developing disease.

Oral health policy development emphasizes activities traditionally managed by dental programs (e.g., water fluoridation and fluoride mouthrinsing). However, state dental programs increasingly are becoming involved with other health issues (e.g., tobacco use, oral cancer, and infection control in the dental environment) that may provide opportunities to integrate oral health-related core function activities into other SHA programs.

Since 1971, dental sealants (a clinical oral-health measure used for both secondary and primary prevention) have been used to prevent the most common form of dental caries among children (4). The levels of involvement by SHAs in core function activities, especially those related to dental sealants, demonstrate the importance of full-time dental directors in state efforts to improve oral health. The findings in this report indicate that substantially more oral health-related assessment, policy-development, and assurance activities occurred in states with full-time directors. Such leadership is essential to meet the national oral health objectives for the year 2000 (objectives 13.1–13.16) (5)—including one for dental sealants (objective 13.8)—and assure that persons at greatest risk for oral disease are effectively targeted for prevention interventions.

# FIGURE 1. Percentage of states reporting involvement in oral health policydevelopment activities, by level of involvement — United States, 1993



\*Maternal and child health programs for prevention of oral disease. <sup>†</sup>Percentage of 50 states and the District of Columbia.

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### Oral Health — Continued

Strategies to improve oral health in the United States through use of the core public health functions related to oral health should include increasing the number of states with full-time dental directors, increasing the level of involvement among states in core function-related activities, and using assessment activities to target disease prevention and health promotion efforts to populations at greatest risk for oral disease.

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# Current Trends

# Self-Reported Tuberculin Skin Testing Among Indian Health Service and Federal Bureau of Prisons Dentists, 1993

Surveillance of health-care workers (HCWs) for tuberculosis (TB) and assessment of TB transmission through routine periodic screening with tuberculin skin tests (TSTs) are essential components of effective TB-control programs in health-care settings (1). Based on TST results, risk for acquiring new infections can be assessed and infection-control practices modified accordingly. In 1993, a self-administered mail survey was conducted to characterize the TST practices and results among dentists in the Indian Health Service (IHS) and the Federal Bureau of Prisons (FBoP). This report summarizes the findings of the survey.

In July 1993, a pretested questionnaire and a letter describing the purpose of the study were mailed to all dentists employed by IHS (n=389) and FBoP (n=120). IHS dentists provide clinical services in 200 dental clinics in IHS/tribal hospitals or ambulatory health centers in 33 states. Within the FBoP, inmates receive dental treatment at 107 dental clinics.

Of the 509 dentists who were mailed the questionnaire, 489 (96% [372 IHS and 117 FBoP]) responded. Of the 489, 194 (40%) dentists had practiced clinical dentistry in the IHS or FBoP for <3 years; 183 (37%), 3–9 years; and 112 (23%),  $\geq$ 10 years. The mean years of clinical practice were similar for dentists in both groups (5.9 years for IHS and 5.6 years for FBoP dentists; p=0.7, two-tailed t-test); 438 (90%) reported that they were practicing clinical dentistry at the time of the survey (87% IHS and 97% FBoP), and the remainder were in nonclinical positions.

Almost all (474 [97%]) respondents reported ever having received a TST (365 [98%] IHS and 109 [93%] FBoP); 92% of those tested reported always having a negative test

# Tuberculin Skin Testing — Continued

result (Table 1). Of 36 dentists who reported ever having a reactive TST, 17 (47%) reported the first reactive TST occurred after graduation from dental school. Of these 17 dentists, 14 (11 IHS and three FBoP) reported converting from a negative TST to a reactive TST.

Among respondents who reported ever being tested, the most frequent reason for testing was "as part of a TST program among health care personnel" (82%). In addition, 8% received a TST at the beginning of employment or during a routine physical examination; 6% received a TST as both part of a TST program and as a result of exposure; 1%, as the result of an exposure to TB; and 3%, for other reasons.

Almost half (46%) of respondents who were currently in clinical practice reported having ever been exposed to someone with active TB; of these dentists, 93% identified a dental patient as one of several possible sources of exposure; 6%, a co-worker; 3%, a personal acquaintance/friend; and 3%, a family member. The percentage of currently practicing dentists who reported ever having been exposed to a dental patient with active TB increased with years of clinical practice (p<0.01, chi-square test for linear trend). As a result of an exposure to a dental patient with active TB, 42% reported receiving a postexposure TST.

Among 425 respondents who were currently in clinical practice and reported having ever been tested, 80% received a TST within the 3 years preceding the survey. Of these 80%, 75% reported having a TST at routine intervals: annually (68%), semiannually (4%), and biannually (3%). The remaining 25% indicated they received TSTs at routine physical examinations, at the beginning of employment, or as the result of exposure to a person with active TB. The percentage of currently practicing dentists reportedly skin tested during the 3 years preceding the survey decreased with increasing years of clinical practice in the IHS or FBoP (p<0.01, chi-square test for linear trend); 90% practicing <3 years had been tested during the preceding 3 years, compared with 68% who had practiced  $\geq$ 10 years.

Reported by: Dental Svcs Br, Indian Health Svc. Health Svcs Div, Federal Bur of Prisons. Office of the Chief Dental Officer, Public Health Svc. Div of Tuberculosis Elimination; Surveillance, Investigations, and Research Br, Div of Oral Health, National Center for Prevention Svcs, CDC.

**Editorial Note**: The findings of this survey suggest that nearly all dentists employed by IHS and FBoP had received a TST. Although 80% of those currently practicing had been tested during the 3 years preceding the survey, less than 60% had been tested at least annually, in accordance with current recommendations (1). Even though these recommendations advise that HCWs be evaluated following exposure to TB, less than half of the dentists in this survey who reported exposure to a patient with active TB received a postexposure TST.

TABLE 1.	Percentage of Indian	Health Service and Fed	leral Bureau of P	risons dentists
reporting	tuberculin skin test (	TST) results, 1993		

	Indian Hea (n=:	Ith Service 365)	Federal Bureau of Prisons (n=109)				
TST results	No.	(%)	No.	(%)			
Always negative Reactive before dental	337	(92)	101	(93)			
school graduation* Reactive after dental	14	(4)	5	(5)			
school graduation*	14	(4)	3	(3)			

\*Includes dentists who reported always having a reactive TST and dentists who reported changing from negative to reactive.

### Tuberculin Skin Testing — Continued

Previous reports in other health-care settings suggest that transmission is most likely to occur from patients with unrecognized active TB (2–5). The dentists in this report may be at occupational risk for TB infection: almost half of currently practicing dentists reported previous exposure to a dental patient with active TB, and the dentists treat patients known to be at increased risk for TB (1). Despite this increased risk, the prevalence of reactive TSTs among the dentists in this survey is consistent with the estimated prevalence of TB in the general U.S. population (6) but lower than that reported among some groups of nondental HCWs (7,8). Neither the type or date of the TST nor the size of the TST reaction for those dentists who reported having a reactive TST could be verified.

Summary data of TSTs of dental workers and other HCWs should be periodically reviewed to evaluate the potential risk for transmission of TB among HCWs. Dental workers and other HCWs should be tested at the beginning of employment and at least annually thereafter (1). However, because the risk for exposure to TB may vary in relation to different factors (e.g., the prevalence of TB in the patient population), the frequency of retesting should be established according to the risk for acquiring new infection in a specific facility, particularly in settings where risk for TB transmission may be greater. The findings in this report are being used to assist efforts to increase awareness of and compliance with recommendations for TSTs within IHS and FBoP clinical dental programs.

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### Erratum: Vol. 43, No. 9

In the article "Update: Impact of the Expanded AIDS Surveillance Case Definition for Adolescents and Adults on Case Reporting—United States, 1993" in Table 2 on page 169, for "Asian/Pacific Islander," the number in the 1993-Added column should be *393*. For "Person with hemophilia," the number in the Pre-1993 column should be *288*; in 1993-Added, *753*; and in the Total column, *1041*. The percentages are correct as published.

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