CENTERS FOR DISEASE CONTROL

MORBIDITY AND MORTALITY WEEKLY REPORT

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Epidemiologic Notes and Reports

Measles - Washington, 1990

During the first 26 weeks of 1990, a total of 266 measles cases* (incidence: 5.8 cases per 100,000 population) was reported to the Washington State Department of Health from 15 (38%) of the state's 39 counties. This number is nearly five times the total reported statewide during all of 1989 (55 cases) and is the largest number of cases reported by the state during any year since 1979. Seventy-five (28%) of the reported cases were serologically confirmed. Detailed data were available for 218 cases reported during the first 22 weeks of 1990.

Of the 218 cases, 97 (45%) were in Hispanics (58 cases per 100,000); 14 (6%), American Indians (20 cases per 100,000); 100 (46%), non-Hispanic whites (3 cases per 100,000); five (2%), blacks (3 cases per 100,000); and two (1%), Asians (1 case per 100,000). Of the 97 Hispanic patients, 70 (72%) were Mexican citizens and 27 (28%) were U.S. citizens (Table 1).

*Illness with generalized rash lasting ≥3 days, temperature ≥38.3 C (≥101 F), and cough or coryza or conjunctivitis.

	Unva va indi	ccinated, ccine cated*	Unvac vacc indi	cinated, ine not cated [†]	Vacc	inated⁵	Total		
Ethnic group	No.	(%)	No.	(%)	No.	(%)	No.	(%)	
Hispanic Mexican citizen U.S. citizen	45 5	(64.3) (18.5)	19 17	(27.1) (63.0)	6 5	(8.6) (18.5)	70 27	(100.0) (100.0)	
Non-Hispanic	48	(39.7)	35	(28.9)	38	(31.4)	121	(100.0)	
Total	98	(45.0)	71	(32.6)	49	(22.5)	218	(100.0)	

TABLE 1. Vaccination status of reported measles patients, by ethnic group – Washington, January 1–May 31, 1990

*>16 months of age, born in or after 1957, no evidence of immunity, and no medical contraindications.

[†]<16 months of age, born before 1957, religious/philosophic exemption, or medical contraindications.

[§]Vaccinated with live measles vaccine on or after first birthday.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES / PUBLIC HEALTH SERVICE

Measles - Continued

One hundred one (46%) patients were <5 years of age, including 51 aged <16 months; 50 (23%) were aged 5–19 years; 67 (31%) were aged \geq 20 years, including 16 who were born before 1957 (Table 2). Children <5 years of age had the highest age-specific incidence rate (29.2 per 100,000) (Table 2). Of the 97 Hispanic patients, 59 (61%) were <5 years of age, including 32 who were <16 months of age.

Forty-nine (23%) patients had been vaccinated, including three who were vaccinated 2, 3, and 10 days, respectively, after exposure (Table 1). Of the 169 unvaccinated patients, 98 (58%) should have received vaccine according to routine indications[†], 54 (32%) were <16 months of age, 11 (7%) were born before 1957, and six (4%) had religious or philosophic exemptions. Of the 98 unvaccinated patients for whom vaccine was indicated, 45 (46%) were Hispanic Mexican citizens, five (5%) were Hispanic U.S. citizens, 46 (47%) were non-Hispanic U.S. citizens, and two (2%) were non-Hispanic visitors from other countries.

Fifteen (7%) cases were in persons infected in Mexico and were linked to 41 (19%) additional cases. Sixteen cases were in persons from other states and were linked to two additional cases.

At least 37 (17%) persons acquired measles through exposure in medical settings (three in physicians' offices, four on hospital wards, and 30 in emergency rooms). These persons included 16 medical workers, who infected at least six other persons (including three hospital patients). Serosurveys conducted at two hospitals as part of vaccination programs indicated that 119 (7%) of 1698 employees lacked immunity as defined by enzyme-linked immunosorbent assay. None of the 19 hospitals where patients were treated had an employment policy requiring measles immunity.

Many patients with measles were not isolated promptly because of initial misdiagnosis. At least nine measles patients at three hospitals presented with fever, cough, conjunctivitis, and rash but were initially diagnosed as having hepatitis, viral syndrome, drug reaction, or Kawasaki disease. They remained in emergency rooms for up to 13 hours, were hospitalized without isolation, or were sent home where additional exposures occurred in family members. At least 31 cases in family members, other hospital patients, visitors, or staff were linked to these nine patients.

Age (yrs)	No.	(%)	Rate
0-4	101	(46.3)	29.2
5—9	14	(6.4)	4.1
10–14	12	(5.5)	4.0
15–19	24	(11.0)	7.3
20–24	31	(14.2)	9.2
25–29	14	(6.4)	3.6
≥30	22	(10.1)	<1.0
Total	218	(100.0)	4.7

TABLE 2. Estimated incidence rates* of reported measles cases, by patient age group - Washington, January 1–May 31, 1990

*Per 100,000 population, based on 1988 population estimates.

[†]Vaccine is routinely indicated for persons born in or after 1957 who are ≥16 months of age, lack evidence of immunity, have no medical contraindication to vaccination, and have no religious or philosophic exemption.

Measles - Continued

Two persons aged 30 and 36 years, respectively, died from measles-related pneumonia (case-fatality rate: 9.2 deaths per 1000 cases), representing the first measles-related deaths in Washington since 1978. Fifty-nine (27%) patients were hospitalized for a total of 236 days.

To control this epidemic, the Washington State Department of Health provided >76,000 doses of measles vaccine, at a cost of \$1.1 million, for use in vaccination clinics. These clinics were publicized in Spanish and English on radio and television, in newspapers, and by sound trucks driven through areas having a high proportion of Hispanic residents. In one severely affected county, the recommended age for measles vaccination was lowered to 12 months. In addition, susceptible students and staff were excluded from attendance at all 15 schools where at least one case occurred; at 13 of these schools, there was no evidence of secondary transmission. At one of the two schools where secondary transmission occurred, all students were vaccinated.

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Editorial Note: Two factors that contribute to the occurrence of measles outbreaks in the United States are the continuing importation of measles and the transmission of measles in medical settings (1-4). In the Washington epidemic, 26% of cases were acquired in Mexico or epidemiologically linked to these cases. In contrast, in the United States in 1989, 3% of cases were associated with importations (5). Seventeen percent of cases in the Washington epidemic were acquired in medical settings.

In Washington, Hispanics constitute 4% of the total population and are the largest ethnic minority group in the state. From 1980 through 1988, Washington's Hispanic population increased by an estimated 39% (δ). Although measles vaccination coverage for the state's total Hispanic population is unknown, the high attack rate for Hispanics suggests that coverage is low.

Nearly half the cases in this epidemic occurred among unvaccinated persons for whom vaccine was indicated. Of these unvaccinated persons, more than half were Hispanic. Although vaccination programs should target all eligible persons, unique measles vaccination strategies are needed in those areas of the United States with large numbers of Hispanic persons who are recent immigrants, preschool-aged children, or undocumented residents. Vaccination clinics at churches and workplaces might reach undocumented residents who are reluctant to go to health departments or physicians' offices for vaccination. Any strategy should account for the potential reluctance of undocumented residents to have contact with government agencies.

Nosocomial transmission of measles continues to occur in the United States, in large part because measles cases are often not diagnosed and isolated promptly and because many medical workers are not immune (3,7). As in previous epidemics, a large proportion of the nosocomial transmission in Washington occurred in emergency rooms (3), possibly because emergency rooms are the primary source of medical care for many persons. Medical providers must be familiar with the clinical and epidemiologic features of measles, so that cases will be recognized promptly and patients isolated.

Measles – Continued

In Washington, the lack of hospital employment policies requiring immunity to measles accounted for disease in medical workers, major disruptions in staffing, substantial expenses for serologic testing and vaccination during the outbreak, and transmission from medical workers to others. In December 1989, Immunization Practices Advisory Committee (ACIP) recommendations were published that advised medical facilities to require all staff who will have direct patient contact to provide evidence of two live measles vaccinations, documentation of physician-diagnosed measles disease, or laboratory evidence of immunity (*8*).

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Progress in Chronic Disease Prevention

State Coalitions for Prevention and Control of Tobacco Use

In October 1989, the Association of State and Territorial Health Officials (ASTHO) collected information on state* coalitions for prevention and control of tobacco use from all 50 states and the District of Columbia (1). State representatives for prevention and control of tobacco use submitted information describing their coalition's membership, history, funding, and activities. This report summarizes the basic characteristics and key activities of these coalitions.

As of December 31, 1989, 47 states had coalitions that addressed prevention and control of tobacco use. Hawaii, Kentucky, Mississippi, and South Carolina did not have state-level coalitions. Of the 47 coalitions, 44 concentrated exclusively on prevention and control of tobacco use; the remaining three also addressed other chronic diseases. In 1963, Colorado established the first state tobacco-related coalition; most (28) states established coalitions after 1984. Twenty coalitions reported receiving funding[†], and 10 of these reported receiving in-kind state support for clerical and administrative needs (Table 1).

^{*}For purposes of this report, the District of Columbia is counted as a state.

[†]Includes grants, donations, membership fees, and funds from state and other governmental sources.

		Data	Funding'				
State	Coalition	established	Amount	In kind⁵			
Alabama	Yes	1986	\$ 22,000	\$ 1,000			
Alaska	Yes	1988	0	0			
Arizona	Yes	1989	0	0			
Arkansas	Yes	1989	0	0			
California	Yes	1987	1,066,004	0			
Colorado	Yes	1963	23,000	18,000			
Connecticut	Yes	1982	0	0			
Delaware	Yes	1986	¶	ſ			
District of Columbia	Yes	1965	100	0			
Florida	Yes	1985	1,500	0			
Georgia	Yes	1988	0	0			
Hawaii	No						
Idaho	Yes	1981	0	0			
Illinois	Yes	1978	0	0			
Indiana	Yes	1986	0	0			
lowa	Yes	1984	0	0			
Kansas	Yes	1985	0	0			
Kentucky	No						
Louisiana	Yes	1988	0	0			
Maine	Yes	1983	5,000	0			
Maryland	Yes	1982	15,000	0			
Massachusetts	Yes	1980	0	0			
Michigan	Yes	1989	ſ	ſ			
Minnesota	Yes	1984	57,550	0			
Mississioni	No						
Missouri	Yes	1982	18,000	0			
Montana	Yes	1986	70,000	70,000			
Nebraska	Ves	1985	5.000	1,000			
Nevada	Yes	1987	. 0	0			
New Hampshire	Ves	1983	4,500	4,000			
New Jersey	Ves	1985	0	. 0			
New Mexico	Vec	1983	0	Ó			
New York	Ves	1985	Õ	Ō			
North Carolina	Ves	1988	Ō	Ó			
North Dakota	Vee	1985	6.713	c c			
Obio	Voc	1967	0,710	Ő			
Oklahoma	Voc	1986	õ	Ő			
Oregon	Vee	1980	Õ	Č			
Bonnouluania	Vee	1989	Õ	Č			
Phodo Joland	Yes	1980	0				
South Caralina	tes	1907	0	, i i i i i i i i i i i i i i i i i i i			
South Carolina	NO	1094	٥	·			
	res	1964	12 700				
Tennessee	res	1986	13,700				
	Yes	1970	0				
Varra ant	Yes	1984	10.000	70.000			
Virginia	Yes	1989	10,000	70,000			
virginia	Yes	1989	0				
wasnington	Yes	1988	3,000	10.000			
vvest Virginia	Yes	1989	4,000	12,000			
Wisconsin	Yes	1980	0	(
wyoming	Yes	1985	250	100			
Total states with coalitions	47						

TABLE 1. Establishment of and annual funding for state* coalitions for prevention and control of tobacco use — United States, December 31, 1989

*For purposes of this report, the District of Columbia is counted as a state.

¹Includes grants, donations, membership fees, and funds from state and other governmental sources.

[§]Estimated dollar value of in-kind support.

[¶]Funding received but dollar value not available.



FIGURE I. Notifiable disease reports, comparison of 4-week totals ending July 14, 1990, with historical data – United States

*Ratio of current 4-week total to mean of 15 4-week totals (from comparable, previous, and subsequent 4-week periods for past 5 years).

TABLE I. Summary – cases of specified notifiable diseases, United States, cumulative, week ending July 14, 1990 (28th Week)

	Cum. 1990		Cum. 1990
AIDS Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea: civilian military Leptosp Leptospirosis Measles: imported indigenous	23,347 1 32 2 33 2 2 1 57 348,564 4,820 99 23 764 14,249	Plague Poliomyelitis, Paralytic* Psittacosis Rabies, human Syphilis: civilian military Syphilis, congenital, age < 1 year Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tularemia Typhoid fever Typhus fever, tickborne (RMSF)	- 72 1 25,514 136 - 27 183 15 11,333 46 203 200

*Three cases of suspected poliomyelitis have been reported in 1990; five of the 13 suspected cases in 1989 were confirmed and all were vaccine-associated.

		Aseptic Menin- gitis	Encephalitis				н	epatitis (
Reporting Area	AIDS		Primary	Post-in- fectious	Gond (Civ	orrhea ilian)	A	в	NA,NB	Unspeci- fied	Legionel- losis	Lepros
	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1989	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1990
UNITED STATES	23,347	3,018	355	57	348,564	358,191	15,488	10,818	1,084	929	570	99
NEW ENGLAND	865	121	11	-	9,613	10,112	306	554	34	40	29	5
Maine	36	5	1	-	113	152	5	24	4	1	3	-
N.H.	43	11	-	-	104	93	5	24	3	2	3	
VI. Mass	8	12	2	-	2 951	3060	226	29	3	-	5	-
R.I.	47	41	1		581	710	32	28		2	5	4
Conn.	232	14	4		4,931	5,152	35	101	8	-	-	-
MID. ATLANTIC	7,105	308	31	4	47.663	54,116	2.217	1 566	122	67	162	17
Upstate N.Y.	1,085	145	26	i	7,307	8,101	568	388	28	20	72	1
N.Y. City	3,980	67	2	1	19,624	21,997	269	448	18	31	25	12
N.J. Pa	1,365	-	1	-	8,286	7,339	238	359	29	-	25	3
rd.	6/5	96	2	2	12,446	16,679	1,142	3/1	47	16	40	1
E.N. CENTRAL	1,600	434	76	11	67,227	62,133	1,149	1,334	79	56	135	1
Unio	373	95	18	3	20,688	15,901	119	240	25	8	49	-
III.	676	83	2	5	20 971	4,838	70	266	5	14	28	-
Mich.	272	155	24	2	15 975	16 539	205	230	22	10	36	1
Wis.	142	24	2	-	3.737	5,416	188	218	6	-	14	
W N CENTRAL	550	101	22	1	10.000	16 500	000	501	- 70			
Minn	000	121	33	1	2 245	1 7 1 9	137	521	/3	20	34	-
lowa	25	13	4		1 364	1,387	183	38	6	2	3	
Mo.	337	60	3	-	10,969	9,885	291	328	29	14	20	
N. Dak.	2	6	-	-	55	73	9	4	2	1		
S. Dak.	1	4	2	-	119	141	64	4	2	-	-	-
Nebr. Kans	24	12	5	-	921	873	50	22	4	-	6	-
	/3	17	8		2,689	2,452	134	63	12	3	5	-
S. ATLANTIC	4,982	685	88	15	100,065	97,953	1,875	2,054	171	135	80	4
Del.	60	22	3	-	1,662	1,590	73	54	6	2	5	-
	509	82	12	1	10,991	10,658	693	288	20	7	22	2
Va.	3/3	2	- 24	-	7,021	6,505	12	28	4	-		-
W. Va.	430	17	54	2	666	0,147 740	157	50	20	94	2	-
N.C.	312	70	23		16.114	14.821	402	585	72		14	1
S.C.	210	10	1		8,016	8,848	23	327	11	8	13	
Ga.	705	116	4	1	22,356	18,881	188	240	5	7	12	-
Fla.	2,282	270	5	11	24,784	27,763	316	358	24	16	5	1
E.S. CENTRAL	523	306	28	1	27.846	28.026	214	828	72	5	41	-
Ky.	95	69	7	-	3,105	2,730	52	285	22	4	18	-
lenn.	173	55	15	1	8,842	9,165	102	441	35	-	12	-
Ala. Mico	121	131	6	-	8,715	8,817	59	98	13	-	11	-
	134	51	-	-	7,184	7,314	1	4	2	1	-	-
W.S. CENTRAL	2,461	328	13	6	35,577	37,407	1,593	1,039	49	157	32	24
Ark.	85	6	1	-	4,516	3,935	278	48	6	12	7	-
Okla	383	46	4	2	7,377	7,689	97	170	2	5	11	-
Tex.	1 873	23	7	5	3,220	3,199	319	7/5	25	13	10	24
ΜΟΠΝΙΤΑΙΝΙ	.,	200			20,404	22,504	000	/45	20		-	
Mont.	593	139	12	-	6,822	7,750	2,472	811	85	74	25	-
Idaho	15	2	•	-	100	108	68	40	2	4	2	-
Wyo.	2	1	1		94	51	23	49	5	1	-	-
Colo.	188	30	3		1.323	1.718	154	90	26	26	3	-
N. Mex.	51	6		-	667	751	426	94	5	2	3	-
Ariz. Litab	191	67	4	-	2,882	2,900	1,354	286	24	29	8	-
Nev	54	19		-	228	234	203	52	11	3	2	-
PACIFIC	85	14	4	•	1,457	1,884	197	191	4	9	5	-
Wash	4,662	576	63	19	35,389	44,165	4,794	2,111	399	375	32	48
Orea	327	-	4	1	2,958	3,360	842	339	74	16	8	3
Calif.	172			-	1,368	1,628	482	234	25	6	-	-
Alaska	4,065	510	54	17	30,221	38,427	3,313	1,465	288	347	23	37
Hawaii	23	47	4	- 1	5/0	484	101	3/	3	1	1	- 8
Guam	,,,	4/	1	1	212	200	50	30	Э	5		0
P.R.	1	-	-	-	107	77	5	1	-	7	-	-
V.I.	901	40	6	-	460	606	96	168	2	22	-	-
Amer. Samoa	4	1	-	-	233	362	10	8	-		-	10
U.N.M.I.	-	-		-	43	53	9	6	-	15	-	3
					101		5	-				

TABLE II. Cases of specified notifiable diseases, United States, weeks ending July 14, 1990, and July 15, 1989 (28th Week)

N: Not notifiable

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	Malaria		Measles (Rubeola) Menin-													
Reporting Area	Walana	Indiç	jenous	Impo	rted*	Total	gococcal Infections	Mu	mps		Pertussi	s		Rubella		
	Cum. 1990	1990	Cum. 1990	1990	Cum. 1990	Cum. 1989	Cum. 1990	1990	Cum. 1990	1990	Cum. 1990	Cum. 1989	1990	Cum. 1990	Cum. 1989	+
UNITED STATES	566	286	14,249	18	764	9.042	1.512	92	3 360	41	1 5 8 3	1 363	24	650	261	
NEW ENGLAND	51	-	174	-	20	299	113	-	3,300	11	205	225	24	7	6	٦
Maine N H	1	•	27	-	2	-	10	-	-	-	6	4	-	-		j
Vt.	4	-	-		8	8	5	-	7	-	12	5	-	1	4	
Mass.	30	-	15	-	4	41	57		8	11	169	193	-	2	1	
Conn.	4	-	27 105	-	3	41	10	-	5	•	2	8	-	1	•	
MID. ATLANTIC	119	30	010	-	140	207	21		10	_	10	9	-	3	-	
Upstate N.Y.	24	-	194	4 2§	109	134	220	1	202	5	311 249	89 38	2	4	25 8	
N.Y. City	41	39	181	2†	21	69	25		-	-	-	2	-	-	15	
Pa.	15	U	338	- U	9	406 234	49 60		47	i.	13 49	23	, i	1	2	
E.N. CENTRAL	25	6	2 979	-	141	2 407	100	4	054	0	49	20	0	20	23	
Ohio	5	-	451	-	3	661	64	4	354	3	317	169	2	1	3	
ina. III.	1	2	314	-	1	51	19	-	13	2	58	13	-		-	
Mich.	7	4	332	-	125	1,524	49 45	-	114	-	85	75		1/	18	
Wis.	3	-	734	-	2	156	21	-	37	1	49	55	-	3	1	
W.N. CENTRAL	9	39	733	-	13	567	51	2	90	1	57	60		6	4	
lowa	1	39	314	-	3	10	10	-	-	-	6	11	-	1	-	
Mo.	6	-	78	-		307	20	1	15 43	1	37	10		4	3	
N. Dak. S. Dak	-	-	-	-	-	-		-		-	1	-	-	1	-	
Nebr.	-		97	-	8	112	2 5	•	-	-	1	1	-			
Kans.	1	-	206	-	-	133	13	-	29	-	3	1	-	-	1	
S. ATLANTIC	131	19	792	11	125	396	274	26	1,385	3	140	99		13	8	
Md.	34		8 181	-	3	37	1	-	3	-	2	1	•	-	2	
D.C.	10	-	10	-	7	13	11	24	828	2	39 14	10		i	-	
va. W.Va	35	-	66	-	2	20	35	-	77	-	14	6	•	1	-	
N.C.	9	-	10	-	13	28 167	12	-	41	-	10	15	-		1	
S.C.	-	-	4			-	20	-	21	-	5	- 20	-		-	
Fla.	29	19	80 427	1015	26 56	- 91	50	:	56	-	14	13	•	- 10	- 5	
E.S. CENTRAL	13	2	112		20	150	72	1	149	1	10	34	-	10	2	
Кγ.	2	-	24	-		20	8/ 27	2	66	6	87	61 1	-		-	
Tenn. Ala.	7	-	42	-	-	92	32	1	33	4	33	21	-	1	2	
Miss.	-	-	29	-	2	44	26 2	- N	9 N	2	49	33	:	2	-	
W.S. CENTRAL	26	146	3.792	2	87	2 885	106	20		-		07		2	36	
Ark.	1	2	12	15	29	2,003	16	29	554 128	2	39	12	-	1	2	
Okia.	7	- 2	10 154	-	-	6	26	2	88	1	12	6	-	1	5	
Tex.	17	142	3,616	1†	58	2,785	52	- 27	103	1	25	14 55	-	-	30	
MOUNTAIN	15	33	670	1	84	313	50	8	272	2	150	399	4	100	35	
Mont. Idaho	1	-	-	-	1	13	9	-	2/0	1	24	17	-	13	32	
Wyo.	-	-	15	-	6 11	2	5	6	140	-	32	56	2	48	1	
Colo. N Mey	2	1	77	15	40	61	15		19	1	53	23	1	4	-	
Ariz.	7	14	82 249	-	11	31	8	N	N	-	9	6	-	30		,
Utah	-	2	58	-		95	4	-	89	-	10	286	-	1		
Nev.	1	16	189	-	3	2	5	-	15	-	4	1	-	4	1	
PACIFIC Wash	17'	2	4,179	-	144	1,176	413	20	405	8	268	174	18	487	122	
Oreg.	10	-	142	-	68 44	34 16	49 45	- N	38	-	63	58	:	7	2	
Calif. Alaska	146	-	3,775	-	29	1,103	308	18	356	6	161	105	17	470	99	
Hawaii	2	- 2	78 9	-	2	26	7	-		-	3	-	-	- 10	21	
Guam	1		5	-		20	4	2	11	2	21	4		10		
P.R.	2	-	808			437	9	U	2	U	- 5	1 1	U	:	6	
V.I. Amer. Samoa	-	U	21	U	3	4	-	U	6	Ū	-	-	U	-	:	
C.N.M.I.	35	U	89	U	:	-	-	U	14	U	-	-	U	:		
				-			-	0	'	U	-	-	5			

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending July 14, 1990, and July 15, 1989 (28th Week)

*For measles only, imported cases includes both out-of-state and international importations. N: Not notifiable

U: Unavailable [†]International [§]Out-of-state

Reporting Area	Syphilis (Primary &	(Civilian) Secondary)	Toxic- shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal	
	Cum. 1990	Cum. 1989	Cum. 1990	Cum. 1990	Cum. 1989	Cum. 1990	Cum. 1990	Cum. 1990	Cum. 1990	
UNITED STATES	25,514	22,495	183	11,333	11.005	46	203	200	2 172	
NEW ENGLAND	954	882	13	298	286	1	14	5	2,2	
Maine	5	5	4	-	3	-	-		-	
Vt.	39	6	-	3	16 4	:	-	-	2	
Mass.	365	268	7	141	143	1	13	4		
Conn.	537	15 588	- 1	74 73	37 83	:	- 1	-	- 2	
MID. ATLANTIC	5 461	4 652	17	2817	2 090	1	51	10	490	
Upstate N.Y.	445	456	6	240	181		9	6	480	
N.Y. City	2,397	2,032	5	1,693	1,187		27	-		
Pa.	1,731	1,455	6	394	345 377	-	2	3 1	305	
E.N. CENTRAL	1,735	911	47	1.169	1,177		20	17	77	
Ohio	273	67	17	179	219	-	4	12	3	
III.	35 670	33 407	2	94 580	115 523		1	-	10	
Mich.	572	334	21	264	254	-	3	5	15	
Wis.	185	70	-	52	66	-	1	-	41	
W.N. CENTRAL	228	180	23	297	275	17	-	16	358	
lowa	49	19 21	1	55 34	53 28	-			133	
Mo.	120	93	11	139	121	15	-	13	13	
N. Dak. S. Dak	1	2	-	10	11	-	-	-	47	
Nebr.	8	17	3	14	14	1	-	-	4	
Kans.	16	28	4	36	37	-	-	3	31	
S. ATLANTIC	8,202	8,224	18	2,350	2,304	3	22	83	621	
Md.	100 641	86 404	1	23 179	25 195	-	- 8	1	9 228	
D.C.	533	499	1	83	91	-	-	-		
va. W.Va	426	295	2	181	197	1	2	7	112	
N.C.	949	508	10	277	272	1	2	44	4	
S.C. Ga	515	428	2	270	266	1	-	22	78	
Fla.	2,134 2,897	4,003	1	473 826	349 869	-	9	3	51	
E.S. CENTRAL	2,214	1.391	6	870	928	5	1	25	105	
Ky.	39	32	1	213	220	1	1	3	26	
Ala.	886 682	588	3	234	262	4	-	18	27 52	
Miss.	607	330	-	154	184			-		
W.S. CENTRAL	3,946	2,946	7	1,404	1,324	14	5	37	258	
Ark. Ia	260	190	-	170	138	9	-	5	22	
Okla.	120	51	6	140	108	5	2	28	80	
Tex.	2,498	2,015	-	984	905	-	3	3	156	
MOUNTAIN	461	418	20	265	242	4	18	5	103	
Idaho	-	1	-	10	7		-	3	31	
Wyo.	-	3	2	3		1	-	-	32	
N. Mex.	22	53	6	14	20	-	-	-	3	
Ariz.	333	118	4	130	43 112	- 3	16	1	25	
Utah Nev	4	11	2	18	24	-	-	-	3	
PACIFIC	72	214	-	31	25	-	2	-	2	
Wash.	2,313	2,891	32	1,863	2,379	1	72	2	166	
Oreg. Calif	80	137	-	64	77		2	-	-	
Alaska	1,997	2,510	27	1,554	2,062	-	64	2	144	
Hawaii	8	7	1	23 85	35 87		4	-		
Guam	1	4	-	14	43		-	-		
г.н. V.I.	204	301	-	66	167	-	-	-	30	
Amer. Samoa	1	2		4	4	-	1	-	•	
C.N.M.I.	1	7	-	29	9	-	4	-	-	

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks endingJuly 14, 1990, and July 15, 1989 (28th Week)

U: Unavailable

TABLE III. Deaths in	121 U.S. cities,* week ending
July 14,	1990 (28th Week)

All Causes, By Age (Y			Years)) P&I**				All Causes, By Age (Years)					P&I**		
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND	585	403	112	39	14	16	52	S. ATLANTIC	1.287	759	265	143	44	58	51
Boston, Mass. Bridgeport, Conn	168	99	38	15	7	8	16	Atlanta, Ga.	189	101	34	30	6	18	4
Cambridge Mass	40	30	5	2	1	1	5	Baltimore, Md.	220	153	41	15	7	4	16
Fall River, Mass.	18	12	6	-	-			Charlotte, N.C.	79	42	18	13	2	4	4
Hartford, Conn.	30	18	6	4	2	-	3	Miami Fla	132	84	30	13	5	5	2
Lowell, Mass.	30	24	5	1	-	-	5	Norfolk, Va.	48	31	7	5	2	3	2
New Redford Mass.	14	11	3	-	-	-	2	Richmond, Va.	80	43	20	10	3	2	6
New Haven, Conn.	37	22	10	2	-	-	1	Savannah, Ga.	40	32	3	3	1	1	2
Providence, R.I.	47	33	7	5		2	4	St. Petersburg, Fla.	66	47	. 9	4	3	3	2
Somerville, Mass.	5	5	-	-	-	-		Washington DC	215	103	20	25	12	9	2
Springfield, Mass.	44	36	4	4	-	-	6	Wilmington, Del.	23	16	5	2		-	-
Waterbury, Conn. Worcester Mass	35	25	5	3	2	:	6	ES CENTRAL	752	100	154	66	14	20	47
MID ATLANTIC	00	49		1	1	4	2	Birmingham, Ala	110	499	24	11	3	2	2
Albany NY	2,/8/	1,784	515	328	78	82	136	Chattanooga, Tenn.	63	50	9	4	-	-	7
Allentown, Pa.	31	26	5	3	-	1	1	Knoxville, Tenn.	62	38	13	7		4	2
Buffalo, N.Y.	101	68	22	ż	1	3	3	Louisville, Ky.	88	52	20	10	4	3	15
Camden, N.J.	50	34	7	6	3	-	-	Mobile Ala	130	91	20	10	2	5	7
Elizabeth, N.J.	20	14	5	-	-	1	-	Montgomery, Ala.	39	26	4	5	2	2	1
Jersev City, N.J	39 50	32	4	2	-	1	4	Nashville, Tenn.	146	93	36	11	3	3	7
N.Y. City, N.Y.	1.464	869	272	224	51	2	-1	W.S. CENTRAL	1 870	1 1 3 8	408	215	64	45	82
Newark, N.J.	73	32	15	18	4	40	7	Austin, Tex.	58	38	9	6	5	-	10
Paterson, N.J.	26	18	4	4	-	-	í	Baton Rouge, La.	42	26	11	4	-	1	2 5
Pittsburgh Pa t	396	262	91	26	11	6	28	Corpus Christi, Tex.	38	23	9	2	1	3	3
Reading, Pa.	35	63	18	2	2	5	5	Dallas, Tex.	264	152	53	40	4	1	4
Rochester, N.Y.	129	95	21	6	2	1	14	Fort Worth Tex	59 82	50	19	10	2	-	8
Schenectady, N.Y.	24	18	3	ž	-	1	14	Houston, Tex.§	734	436	169	89	24	16	18
Scranton, Pa.†	32	27	2	3	-	-	3	Little Rock, Ark.	65	39	18	7	-	1	4
Trenton N I	109	78	20	6	3	2	6	New Orleans, La.	164	102	28	18	6	10	15
Utica, N.Y.	39	28	4	5	1	1	3	San Antonio, Lex.	208	124	53	23		1	4
Yonkers, N.Y.	23	17	2	4	:		1	Tulsa, Okla.	103	76	13	7	5	2	9
E.N. CENTRAL	2.380	1 583	491	176	55	75	110	MOUNTAIN	693	439	134	77	25	18	32
Akron, Ohio	72	48	20	2	-	2	4	Albuquerque, N. Mex.	. 75	45	14	13	3	-	5
Canton, Ohio	44	30	9	4	1		5	Colo. Springs, Colo.	44	26	9	3	5	1	3
Cincinnati Obio	564	362	125	45	10	22	16	Denver, Colo.	121	84	17	13	4	3	7
Cleveland Ohio	160	/3	27	16	-	3	11	Las Vegas, Nev.	113	68	25	16	1	1	2
Columbus, Ohio	161	109	20	14	2	14	1	Phoenix, Ariz	142	81	34	12	8	7	2
Dayton, Ohio	118	82	22		3	2	10	Pueblo, Colo.	22	16	4	1	1	-	2
Detroit, Mich.	276	167	63	35	4	7	7	Salt Lake City, Utah	44	23	11	9	1	-	-
Evansville, Ind.	60	42	12	1	4	1	4	Tucson, Ariz.	107	80	14	9	1	3	
Garv. Ind.	24	41	97	2	4	-	5	PACIFIC	2,076	1,324	403	211	78	55	118
Grand Rapids, Mich.	63	43	8	5	3	4	2	Berkeley, Calif.	19	15	1	2	-	2	8
Indianapolis, Ind.	199	132	45	ž	8	7	3	Glendale Calif.	106	68 10	25	0	4		5
Madison, Wis.§	35	23	8	4	•	-	3	Honolulu, Hawaii	103	67	23	8	3	2	9
Milwaukee, Wis.	147	106	29	9	3	-	3	Long Beach, Calif.	82	50	18	8	2	4	14
Rockford III	30	20	11	2	3	-	6	Los Angeles Calif.	566	363	104	56	34	4	1/
South Bend, Ind.	42	35	3	2		2	2	Oakland, Calif.	81	43	22	12	1	3	2
Toledo, Ohio	83	56	16	7	3	ī	7	Pasadena, Calif.	134	18	20		-	8	4
Youngstown, Ohio	76	57	15	2	-	2	13	Sacramento, Calif.	155	88	31	16	11	9	16
W.N. CENTRAL	768	547	130	53	24	14	40	San Diego, Calif.	147	92	30	15	2	8	15
Des Moines, Iowa	77	47	20	4	4	2	4	San Francisco, Calif.	159	85	36	28	7	3	2
Duluth, Minn.	25	21	2	1	:	1	1	San Jose, Calif.	186	125	36	16	3	6	
Kansas City, Kans.	28	18	5	4	1	ž	-	Spokane Wash	193	12/	35	27	3	1	5
Lincoln. Nehr	90 72	21	1	0	4	2	9	Tacoma, Wash.	51	36	10	3	1	-	5
Minneapolis, Minn	129	88	24	10	4	3	11		2 100 ^{††}	0 470	2 6 1 2	1 200	200	202	670
Omaha, Nebr.	99	75	14	7	2	ĭ	6		0,199	0,470	2,012	1,308	230	303	0,0
St. Louis, Mo.	146	100	28	10	6	2	-								
St. Paul, Minn.	57	42	12	2	1	-	1								
wichita, Kans.	80	54	14	8	1	3	4								

*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. TBecause 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.

t†Total includes unknown ages.

\$Data not available. Figures are estimates based on average of past available 4 weeks.

Tobacco Use - Continued

All coalitions included a representative from the state public health agency as well as other health professionals (e.g., physicians, nurses, health researchers, and/or hospital administrators). Coalition members represented volunteer, community, policy-relevant, and education groups. In some states, coalitions also included economists (Florida, Michigan, and Vermont), military officials (Alabama, Alaska, and Delaware), representatives from the tobacco industry (Maine), vendor organizations (Indiana and Vermont), youth groups (Maine, Massachusetts, Montana, New York, and Vermont), sports groups (Delaware, Michigan, and Vermont), and veterans groups (Alabama, Minnesota, and Vermont).

The most frequently reported coalition activities were 1) providing public education and information (34 states), 2) lobbying for antitobacco legislation (25 states), 3) educating health-care professionals (21 states), 4) developing and implementing a state plan for tobacco control (18 states), and 5) conducting research and evaluation (12 states) (Table 2). Other reported activities included promoting a Smoke-Free Class of 2000 (cosponsored by the American Lung Association, the American Heart Association, and the American Cancer Society [ACS]) (Illinois, Minnesota, and New Hampshire), advising the state health department (New York and Ohio), and antitobacco advertising (Colorado).

Reported by: State specialists for prevention and control of tobacco use. KM Marconi, PhD, Public Health Applications Br, National Cancer Institute; GC Bennett, MPH, Health Education Br, National Heart, Lung, and Blood Institute, National Institutes of Health. Program Svcs Activity, Office on Smoking and Health, Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: Direct community involvement is essential to achieve a smoke-free society by the year 2000. State coalitions for prevention and control of tobacco use bring together a broad range of persons and organizations to reach a common goal: reducing the prevalence of tobacco use. Coalitions can amplify state resources by involving community groups, volunteer organizations, advocacy groups, educators, and representatives of target populations. Leadership from physicians and other health officials is needed to ensure the success of community coalitions.

State coalitions for prevention and control of tobacco use should set specific, measurable objectives that enhance the strength and credibility of the coalitions' immediate plans, as well as maintain support for long-term public health efforts (2). Coalitions should provide direction for the development of state plans for prevention and control of tobacco use, enlist political and constituent support, ensure input from special target groups, and provide technical expertise in advising policymakers. These issues are discussed in more detail in the *Guide to Public Health Practice: State Health Agency Tobacco Prevention and Control Plans* (3).

The American Stop Smoking Intervention Study (ASSIST), sponsored by the ACS and the National Cancer Institute (NCI), National Institutes of Health (NIH), will provide additional funding to approximately 15 states or large municipalities to support coalition initiatives for prevention and control of tobacco use (1). Agencies working through a national network of state public health professionals to increase public health efforts to prevent and control tobacco use at the state level include ASTHO; CDC's Office on Smoking and Health, Center for Chronic Disease Prevention and Health Promotion; and NCI and the National Heart, Lung, and Blood Institute (NHLBI), NIH (4).

Additional information on developing tobacco-related coalitions is available in With Every Beat of Your Heart, published by NHLBI (5), and Smoke Fighting: A Smoking Control Movement Building Guide, published by ACS (2).

Tobacco Use - Continued

State	Public education and information	Legislation	Professional education	Developing a state plan for tobacco control	Research/ evaluation
Alabama	Yes	Yes	Yes	No	No
Alaska	No	Yes	No	No	No
Arizona	No	No	No	Yes	No
Arkansas	No	Yes	No	No	No
California	No	Yes	No	No	No
Colorado	Yes	No	Yes	Yes	Yes
Connecticut	Yes	Yes	Yes	No	No
Delaware	Yes	Yes	Yes	Yes	No
District of Columbia	Yes	Yes	Yes	No	No
Florida	Yes	Yes	No	Yes	Yes
Georgia	Yes	No	No	No	No
Idaho	Yes	Yes	No	No	No
Illinois	Yes	Ves	Yes	Yes	Yes
Indiana	Yes	No	Yes	No	No
lowa	Yes	No	No	No	No
Kansas	Yes	No	Vec	No	Yes
Louisiana	Yes	No	Vec	No	No
Maine	Yes	Vec	No	No	No
Maryland	No	Voc	No	No	No
Massachusetts	Ves	Voc	Vac	Ves	No
Michigan	No	Yes	Tes	Ves	No
Minnesota	No	res No	NO	No	No
Missouri	No	Xon	No	No	No
Montana	Ves	No	NO	Ves	Yes
Nebraska	Voc	NO	res	No	No
Nevada	No	Xoo	No	No	No
New Hampshire	Voc	res	NO	No	No
New Jersey	Voc	NO	Yes	No	Yes
New Mexico	Vec	Voc	res	Vec	No
New York	No	No	NO	Vee	No
North Calolina	Vec	No	NO	Ves	No
North Dakota	Vec	No	Yes	Ves	Yes
Ohio	No	No	tes	No	No
Oklahoma	Vec	No	NO	No	No
Oregon	No	No	NO	Vec	Yes
Pennsylvania	Ves	No	No	Ves	No
Rhode Island	Vec	NO	NO	No	No
South Dakota	Vec	Vee	res	No	No
Tennessee	Vec	No	No	No	No
Texas	Vec	Voc	Voo	Vec	No
litah	Vee	Voc	Vee	Ves	No
Vermont	Vec	No	Vee	Vec	Yes
Virginia	Voc	NO	tes	No	Ves
Washington	No	Vee	NO	No	703 Vac
West Virginia	Vec	Voc	NO	Voc	Vee
Wieconsin	Vaa	No	Tes	T CS	No
Wyoming	Yes	Yes	No	No	No
Total states with activities	34	25	21	18	12

TABLE 2. Summary of activities of state* coalitions for prevention and control of tobacco use – December 31, 1989

*For purposes of this report, the District of Columbia is counted as a state.

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Tobacco Use - Continued

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Notices to Readers

Availability of Primaquine Phosphate from CDC

Primaquine phosphate is an antimalarial drug that decreases the risk of malaria relapses by acting against the liver stages of *Plasmodium vivax* and *P. ovale* infections. No alternative antirelapse drugs are available in the United States.

CDC was recently notified by the sole U.S. manufacturer of primaquine (Winthrop Pharmaceuticals, New York, New York) that production of this drug has been temporarily discontinued because its chemical precursor is currently unavailable. Primaquine is expected to be commercially available again in mid-1991. In the meantime, CDC has acquired a supply of the drug in sufficient quantity for treatment of nonmilitary cases of *P. vivax* and *P. ovale* infections. Until primaquine is again commercially available, CDC will provide this drug free to licensed U.S. physicians who wish to prescribe it for patients who have parasitologically-confirmed *P. vivax* or *P. ovale* infections and who reside in the United States or its territories. Patients with *P. falciparum* or *P. malariae* infections do not require primaquine therapy. Because of the limited supply, CDC is unable to provide primaquine for persons who wish to use it as part of a chemoprophylactic regimen.

Physicians who wish to receive therapeutic courses of primaquine for their patients should call the CDC Drug Service at (404) 639-3670, Monday through Friday, between 8:00 a.m. and 4:30 p.m. Eastern time. Physicians will be requested to provide the following information about their patients: clinical and parasitologic data, places and dates of travel to malarious areas, and use of malaria chemoprophylaxis.

Epidemiology in Action Course

CDC and Emory University will cosponsor a course designed for practicing state and local health department professionals. This course, "Epidemiology in Action," will be held at CDC November 5–16, 1990. It emphasizes the practical application of epidemiology to public health problems and will consist of lectures, workshops,

Epidemiology in Action – Continued

classroom exercises (including actual epidemiologic problems), roundtable discussions, and an on-site community survey. Applications must be received by August 24. For further information and/or an application form, contact Department PSB, Division of Public Health, Emory University, 1599 Clifton Road, N.E., Atlanta, GA 30329; telephone (404) 727-0199; FAX (404) 727-8744; TELEX (810) 751-8512.



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The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday. The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: Editor, *Morbidity and Mortality Weekly Report*, Centers for Disease Control, Atlanta, Georgia 30333; telephone (404) 332-4555.

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