# MMR

MORBIDITY AND MORTALITY WEEKLY REPORT

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# The Great American Smokeout - November 15, 1990

For each of the last 14 years, the American Cancer Society (ACS) has sponsored the Great American Smokeout to focus attention on tobacco use and encourage smokers to refrain from smoking cigarettes for at least 24 hours. Local activities have included requests by local ACS offices to stores to not sell cigarettes for the day; media coverage of prominent local citizens who have quit smoking; and implementation of a smoke-free day by restaurants and other public places. In 1989, approximately one third of all smokers (nearly 18 million persons) participated in the Smokeout (1). Of these, approximately 5.3 million did not smoke at all on the day of the Smokeout, and an estimated 3.9 million refrained from smoking 1–3 days later. More than 85% of persons surveyed by the Gallup Organization after the Smokeout had heard of the event (1).

By 1987, almost half of all living Americans who ever smoked had quit. The proportion of persons who quit for at least 1 day in the 12 months preceding national surveys increased from 27.8% in 1978 to 31.5% in 1987 (2).

This year, the Smokeout will be held Thursday, November 15. The goal is to ensure that at least one in every five smokers gives up cigarettes for the 24-hour period. Additional information is available from local offices of the ACS; phone numbers of the local offices are available from the national office (telephone [800] ACS-2345).

#### References

- 1. Lieberman Research Inc. A study of the impact of the 1989 Great American Smokeout: summary, Gallup Organization. New York: American Cancer Society, 1989.
- CDC. The health benefits of smoking cessation: a report of the Surgeon General, 1990.
   Rockville, Maryland: US Department of Health and Human Services, Public Health Service, 1990; DHHS publication no. (CDC)90-8416.

# Progress in Chronic Disease Prevention

### Cigarette Sales to Minors — Colorado, 1989

In July 1987, the Colorado legislature enacted a law\* that prohibits the sale of tobacco to minors (persons <18 years of age) and prohibits minors from purchasing tobacco. In August 1989, The Coalition for a Tobacco-Free Colorado, a consortium of privately and publicly funded health organizations, assessed the effectiveness of the law in preventing minors from purchasing cigarettes in Colorado. This report summarizes the findings from that assessment.

Eleven teams of volunteers, each consisting of a minor (mean age: 14.9 years; range: 9–17 years) and an adult, attempted to purchase cigarettes (but did not actually purchase cigarettes) at randomly selected tobacco sales outlets in suburban Denver and outlying communities. Adult members of the team were chosen from a network of coalition volunteers; minors were recruited by the adults (e.g., from their own families or from families of friends). Although each team was initially assigned 20 sites, including up to four vending machine sites, the final sample included 121 sites (range: 4–22 per team). The survey design was modeled on a 1988 study in Santa Clara County, California; in that study, the minors actually purchased the cigarettes (1). Because no cigarettes were purchased in the Colorado study, law enforcement officials were not notified of the study.

At each retail site, the team member who was a minor entered the store alone and asked the vendor for a pack of cigarettes. If the minor was asked for age verification and denied purchase, the attempt was classified as unsuccessful. If a sale was recorded on the cash register or a pack of cigarettes was placed on the counter, the attempt was considered successful (a purchase was not made, however; instead, the minor stated that he/she did not have enough money and left the store). The attempt was also considered successful if the vendor asked the minor his/her age but was prepared to sell the cigarettes regardless of the minor's age.

At each vending machine site, the minor entered the vending area alone and attempted to locate the vending machine sign that is required by state law to warn against cigarette sales to minors. If the minor was able to simulate a purchase (i.e., by inserting four pennies, pressing a selection button, pretending to pick up a pack of cigarettes, and leaving the site), the attempt was considered successful. If the proprietor asked for the minor's age or identification, the attempt was considered unsuccessful.

Of 121 purchase attempts, 97 involved contact with a vendor and 24 involved vending machines. Overall, 64% of attempts were successful, including 55% of the vendor contacts and 100% of the vending machine attempts. The success rate was similar for older (>14 years of age) and younger (≤14 years of age) minors (26/47 [55%] compared with 27/50 [54%], respectively). Although girls were more successful than boys (60% compared with 48%), this difference was not statistically significant (p>0.05, chi-square test). Attempts were more successful in pharmacies (8/10 [80%]) and gas stations (11/16 [69%]) than in food stores (10/21 [48%]) and convenience stores (18/39 [46%]); attempts at nonfood outlets were more likely to be successful than attempts at food outlets (68% compared with 46%; p<0.05). Purchase attempts

<sup>\*</sup>State of Colorado law CRS 18-13-121 entitled "Concerning Unlawful Distribution of Cigarettes and Tobacco Products."

Cigarette Sales - Continued

were more successful in rural towns than in suburban Denver stores (64% compared with 41%; p<0.05). For 17 (71%) of the vending machines, the required warning signs were not posted.

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**Editorial Note:** In the United States, approximately 80%–90% of smokers begin smoking before age 21 (2), and an estimated 3000 teenagers initiate smoking each day (3). Based on national estimates and Colorado population data, approximately 80 minors in Colorado must initiate smoking each day to sustain 1986 cigarette sales levels (i.e., to offset the number of smokers lost to cessation or death) (4).

In general, most smoking-prevention activities in Colorado and other states have been aimed at reducing demand for tobacco among young persons through educational programs. Activities that restrict the supply of tobacco to minors have been hampered because laws that support such activities often do not have substantive provisions for enforcement (5).

Findings from this survey indicated that merchant policies requiring sales clerks to establish customer proof of age to purchase cigarettes have not been implemented universally in Colorado. Moreover, sales clerks did not appear to discriminate in their sales practices between very young adolescents and those closer to legal age. Minors' access to cigarettes may have been less successful at food outlets than at nonfood outlets because most food outlets in Colorado sell beer, and sales clerks at these outlets are accustomed to asking for proof of age. Minors may have been able to purchase cigarettes more readily in outlying communities because the age restriction may not have been as well-publicized in those areas as in the Denver metropolitan area. Many vendors in Colorado may not be familiar with this law and its specific provisions; some may believe that its enforcement is unlikely or that the profits from cigarette sales to minors outweigh possible financial penalties for violating the law.

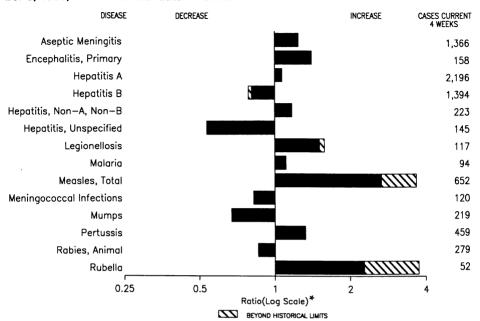
Options available to state and local jurisdictions that could more effectively restrict access to tobacco by minors include 1) developing a retail tobacco sales licensure system in which licensure fees are used to support enforcement efforts, 2) educating vendors about tobacco sales to minors and about the vendors' responsibility to uphold the law prohibiting such sales, and 3) enacting state laws and local ordinances that prohibit the sale of tobacco through vending machines (6).

Colorado will use the results from this study to help develop support for an enforcement program to reduce sales of cigarettes to minors, assist tobacco retail groups in increasing their use of warning signs, and help educate tobacco merchants about the need to prevent the illegal purchase of cigarettes by minors.

#### References

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- CDC. Reducing the health consequences of smoking: 25 years of progress—a report of the Surgeon General. Rockville, Maryland: US Department of Health and Human Services, Public Health Service, 1989; DHHS publication no. (CDC)89-8411.
- 3. Pierce JP, Fiore MC, Novotny TE, Hatziandreu EF, Davis RM. Trends in cigarette smoking in the United States: projections to the year 2000. JAMA 1989;261:61–5.
- Tye JB, Warner KE, Glantz SA. Tobacco advertising and consumption: evidence of a causal relationship. J Public Health Policy 1987;8:492–508.

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending November 3, 1990, with historical data — United States



<sup>\*</sup>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 November 3, 1990 (44th Week)

Cum 1000

Cum 1000

	Cum. 1990		Cum. 1990
AIDS Anthrax	35,868	Plague Poliomyelitis, Paralytic*	2
Botulism: Foodborne	17	Psittacosis	96
Infant	54	Rabies, human	1
Other	6	Syphilis: civilian	41,101
Brucellosis	70	military	208
Cholera	3	Syphilis, congenital, age < 1 year	685
Congenital rubella syndrome	3	Tetanus	50
Diphtheria	3	Toxic shock syndrome	254
Encephalitis, post-infectious	1,236	Trichinosis	22
Gonorrhea: civilian	559,926	Tuberculosis	19,580
military	7,384	Tularemia	121
Leprosy	179	Typhoid fever	433
Leptospirosis	47	Typhus fever, tickborne (RMSF)	598
Measles: imported	1,072	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
indigenous	23,002		

<sup>\*</sup>Three cases of suspected poliomyelitis have been reported in 1990; five of 13 suspected cases in 1989 were confirmed and all were vaccine-associated.

TABLE II. Cases of specified notifiable diseases, United States, weeks ending November 3, 1990, and November 4, 1989 (44th Week)

November 3, 1990, and November 4, 1989 (44th Week)													
	AIDS	Aseptic Menin-	Encephalitis		Gond	orrhea	Н	epatitis (	Legionel-				
Reporting Area		gitis	Primary	Post-in- fectious		ilian)	Α	В	NA,NB	Unspeci- fied	losis	Leprosy	
	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	35,868	9,110	882	1,236	559,926	596,630	24,458	17,038	2,121	1,445	1,097	179	
NEW ENGLAND	1,235	339	23	-	15,598	17,488	534	910	77	60	61	10	
Maine N.H.	52 54	16 35	3	-	172 142	233 156	10 7	24 39	4 6	1 3 .	5 4	-	
Vt. Mass.	14 683	32 112	2 11		46 6.633	58 6,804	5 349	42 562	6 51	54	6 37	9	
R.I. Conn.	79 353	104 40	1	-	1,005 7,600	1,248 8,989	49 114	41 202	10	2	9	1	
MID. ATLANTIC	10,597	866	44	7	73,649	86,220	3,257	2,186	198	86	340	20	
Upstate N.Y. N.Y. City	1,294 6,136	465 132	36 3	1 3	12,201 29,454	14,237 35,149	988 487	596 553	69 25	24 43	129 83	1 14	
N.J. Pa.	2,131	269	1 4	3	12,661	13,010	397	524	38	-	48	4	
E.N. CENTRAL	1,036 2,511	2,670	2341167	107,415	19,333 111,273	23,824 1,974	1,385 1,978	513 312	66 81	19 281	80 2	1	
Ohio Ind.	550 236	510 294	78 6	4	33,223 9,419	28,994 8,364	203 155	348 348	74 18	12	91	-	
III.	1,052	572	711155	32,898	36,607	959	375	42	17	15 15	45 1	-	
Mich. Wis.	482 191	941 353	65 14	-	25,325 6,550	28,225 9,083	329 328	544 363	33 145	37 -	87 43	1	
W.N. CENTRAL Minn.	876 151	473 89	96 59	2 1	29,157 3,542	28,247 3.068	1,493 213	756 97	117	31	62	1	
lowa	43	93	5	-	2,020	2,391	248	50	25 11	1 4	6 4	-	
Mo. N. Dak.	508 2	183 19	7 3	1	17,773 76	17,306 122	420 20	476 5	54 2	20 1	29 1	-	
S. Dak. Nebr.	5 50	9 38	4	-	248 1,569	238 1,304	293 94	7 30	- 4 4	-	2	-	
Kans.	117	42	11	-	3,929	3,818	205	91	17	5	12 8	1 -	
S. ATLANTIC Del.	7,711 83	1,596 42	246 5	28	159,166 2,738	159,289 2,770	2,776 99	3,339 84	284 9	215 2	154 11	6	
Md.	861 590	233	23	1	19,925	19,014	909	476	49	14	54	3	
D.C. Va.	602	276	47	1	11,125 15,190	9,204 13,815	15 261	39 210	4 36	147	2 13	-	
W. Va. N.C.	58 496	51 176	57 34	-	1,085 23,871	1,227 23,944	19 597	75 917	4 107	9	4 22	1	
S.C.	311 1,092	21 279	1	1	12,621	14,525	39	520	15	9	20	-	
Ga. Fla.	3,618	509	75	25	34,333 38,278	30,825 43,965	320 517	409 609	11 49	7 27	19 9	2	
E.S. CENTRAL Ky.	909 162	619 166	56 25	2	48,337 4,956	47,857 4,667	335 80	1,335 456	186 54	8 6	52 22		
Tenn.	300	122	23	2	15,169	16,025	157	715	113	-	17	-	
Ala. Miss.	194 253	229 102	8	-	15,998 12,214	15,351 11,814	97 1	148 16	17 2	1 1	13		
W.S. CENTRAL Ark.	3,807 181	728 22	51 5	7	61,268 7,355	62,067 7,301	2,881 470	1,850 74	99 11	273	46 9	34	
La.	608	84	9	-	11,372	13,073	174	273	5	23 7	13	-	
Okla. Tex.	170 2,848	77 545	3 34	6 1	5,220 37,321	5,338 36,355	500 1,737	143 1,360	24 59	25 218	15 9	34	
MOUNTAIN	955	356	22	2	11,347	12,487	3,932	1,248	191	115	42	3	
Mont. Idaho	11 21	6 7	-	-	180 124	161 150	158 82	62 72	7 8	4	5 3	-	
Wyo. Colo.	2 310	7 90	1 4	-	131 2,999	92 2,678	56 272	15 153	5 45	1 40	2 8	-	
N. Mex.	87 274	20 156	1 9	-	1,050	1,128	818	171	11	10	3	-	
Ariz. Utah	95	27	3	-	4,409 326	5,130 389	1,760 511	421 89	67 26	43 7	11 3	2	
Nev.	155	43	4	2	2,128	2,759	275	265	22	10	7	1	
PACIFIC Wash.	7,267 524	1,463	110 6	21 1	53,989 4,354	71,702 5,850	7,276 1,187	3,436 510	657 109	576 31	59 12	103 6	
Oreg. Calif.	265 6,325	1,269	96	19	2,146 46,181	2,621 61,957	728 5,110	359 2,448	49 483	8 525	- 45	74	
Alaska Hawaii	24 129	105 89	7	1	896 412	818 456	181 70	53 66	6 10	5 5 7	- 2	23	
Guam	2	2	-	-	194	141	12	3	-	11	-	1	
P.R. V.I.	1,444 11	62	6	-	637 357	945 603	151 1	498 11	9	26	-	6	
Amer. Samoa C.N.M.I.	-	1	-	31	63 156	53 79	34 10	9	-	15	-	10 4	
							.5	3	-	13	-	~	

N: Not notifiable

U: Unavailable

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

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 3, 1990, and November 4, 1989 (44th Week)

			Meas	les (Rubeola)			Menin-	Mumps			D		5			
Reporting Area	Malaria	Indigenous		Imported*		Total	gococcal Infections	Mu	ımps	Pertussis			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	1,014	168	23,002	2	1,072	14,190	2,045	42	4,410	77	3,518	3,213	3	1,050	342	
NEW ENGLAND	85	1	265	-	26	337	160	1	41	4	362	332	-	8	6	
Maine N.H.	2 4	-	28	-	2 9	1 15	14 11	-	10	3	16 55	25 16	-	1 1	4	
Vt. Mass.	7 46	- 1	23	-	1 7	3 63	13 73	1	2 12	-	7	6 256	-	-	1	
R.I.	8	-	27	-	3	41	12		5	1	253 7	11		2 1	1	
Conn.	18	-	187	-	4	214	37	-	12	-	24	18	-	3	-	
MID. ATLANTIC Upstate N.Y.	222 44	-	1,287 204	-	157 112	990 152	323 120	1	295 125	3	472 310	264 109	-	11	36 14	
N.Y. City	80	-	437	:	21	121	46		125	1 -	310	11		10	15	
N.J.	73	-	270	-	15	453	66	-	77	-	21	33	-	-	7	
Pa.	25	•	376	-	9	264	91	-	93	2	141	111	-	1	-	
E.N. CENTRAL Ohio	60 8	-	3,368 551	:	143 3	5,016 1,509	271 83	-	464 91	-	813 216	463 68	-	162 131	28 3	
Ind.	3	-	417	-	1	78	29	-	20	-	124	19	-	-	-	
III. Mich.	22 18	Ū	1,309 348	Ū	10 125	2,736 334	74 63	Ū	164 142	Ū	276 76	158 43	Ū	19 9	21	
Wis.	9	-	743	-	4	359	22	-	47	-	121	175	-	3	1 3	
W.N. CENTRAL	18	4	888	2	16	748	66	3	145	4	204	206		48	6	
Minn. lowa	5 2	4	423 25	2†	6 1	23 13	13 1	1	15	3	51	57	-	42	-	
Mo.	10		98		-	459	28	1	21 56	1	18 104	15 119		4	1 4	
N. Dak.	-	-	-	-	-	-	2	-	-	-	2	3	-	1	-	
S. Dak. Nebr.	-	- :	15 97	-	8 1	113	2 5	1	7	- :	1	2 6	-	1	-	
Kans.	1	-	230		-	140	15		46	-	21	4	-	-	1	
S. ATLANTIC	200	7	921	-	375	711	360	22	1,832	9	293	326	-	20	10	
Del. Md.	4 56		8 194	-	3 18	40 99	3 42	- 12	6 1,039	-	8	1	-	-	-	
D.C.	10	1	16	-	7	40	11	2	36		60 14	67 2	:	2 1	2	
Va. W. Va.	49	-	84	•	2	22	46	2	101	6	24	33	-	1	-	
N.C.	2 15		6 9		15	53 190	15 53	1	44 294	-	28 71	32 68		-	1	
S.C.	3	U	4	U	-	15	24	Ų	60	Ų	5	-	U	-	-	
Ga. Fla.	16 45	6	99 501		259 71	17 235	63 103	3 2	89 163	3	35 48	44 79	-	1 15	7	
E.S. CENTRAL	20		183	_	3	239	122	-	94	2	148	201		15	5	
Ky.	2		41	-	ĭ	44	37	-	-	-	140	1	-	1	-	
Tenn. Ala.	9	-	93 23	•	2	145 50	53 30	-	52 16	1	72	116	-	14	4	
Miss.	-	-	26	-	-	-	2	-	26	1	68 8	73 11		-	1	
W.S. CENTRAL	63	-	4,181	-	94	3,283	144	7	646	1	184	351		66	50	
Ark. La.	4 6	•	18 10	-	31	22 81	18	1	138	-	21	29	-	3	-	
Okla.	9		174	:	-	110	32 17	2 1	109 101	1	31 52	19 53		1	5 1	
Tex.	44	-	3,979	-	63	3,070	77	3	298	-	80	250	-	62	44	
MOUNTAIN Mont.	23	9	842	-	100	416	71	4	327	20	288	620	-	109	36	
Idaho	1 5		16	:	1 10	13 7	11 6	-	1 143	4	35 45	38 72	-	14	1	
Wyo.	1	-	-	-	15	-	-	-	2	-	45	/2		49	32 2	
Colo. N. Mex.	2 4		91 81	-	47 12	97 31	22	- Ni	24	12	102	86	-	4	-	
Ariz.	9	9	300		12	145	12 6	N 3	N 129	4	18 53	32 371		32	-	
Utah Nev.	1	-	127 227	-	-	114	7	1	10	-	31	20		2	-	
PACIFIC		147		-	3	9	7	-	18	-	4	1	•	8	1	
Wash.	323 25	147	11,067 202	-	158 69	2,450 54	528 66	4	566 49	34 2	754 198	450	3	611	165	
Oreg.	13		169	-	44	61	58	N	49 N	3	198	181 16	-	74	4	
Calif. Alaska	279 2	147	10,588 78	-	39 2	2,305 1	388 11	4	488	15	367	227	2	521	139	
Hawaii	4	-	30	-	4	32	11 5	-	4 25	14	7 91	1 25	1	16	22	
Guam	3	U	-	U	1	4		U	4	U	1	1	Ü	10		
P.R. V.I.	3		1,657	-	-	560	12	-	8	1	12	4	-	-	8	
Amer. Samoa	35	U	21 501	U	3	4	-	U	12 37	U	-	-	U	-	-	
C.N.M.I.		ŭ	4	ŭ	-	-	-	ŭ	8	Ü	4	-	U	-	-	

\*For measles only, imported cases includes both out-of-state and international importations.

N: Not notifiable U: Unavailable †International \*Out-of-state

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 3, 1990, and November 4, 1989 (44th Week)

Reporting Area		s (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	41,101	37,423	254	19,580	17,920	121	433	598	3;670	
NEW ENGLAND	1,437	1,453	22	476	537	3	28	19	6	
Maine N.H.	41	13 12	7 1	18 3	25 23	-	-	1	3	
Vt. Mass.	1 586	1 430	1 11	8 243	8 294	3	- 27	16	-	
R.I. Conn.	19 783	28 969	1	62 142	55 132	:	1	2	3	
MID. ATLANTIC	7,768	8,008	27	4,703	3,698	1	98	30	881	
Upstate N.Y. N.Y. City	777 3,610	813 3,858	10 5	323 2.933	280 2,129	-	18 54	15 2	169	
N.J.	1,288	1,212	-	809	707	1	22	8	310	
Pa. E.N. CENTRAL	2,093 2.920	2,125 1.672	12 54	638 1,901	582 1,821	2	4 30	5 45	402	
Ohio	468	150	19	335	314	1	6	33	154 10	
Ind. III.	79 1,242	54 745	1 8	177 963	175 844	1	1 14	2 2	14 27	
Mich. Wis.	832 299	581 142	26	356 70	383 105	-	8	8	48	
W.N. CENTRAL	439	281	29	520	463	41	1 5	- 54	55 575	
Minn. Iowa	79	49 30	5	101	91		-	-	215	
Mo.	68 233	147	7 8	53 267	44 219	31	1 3	2 36	17 25	
N. Dak. S. Dak.	1 2	3 1	-	17 12	13 26	4		2	80 191	
Nebr. Kans.	14 42	23 28	3 6	15 55	18 52	3	1	1	4	
S. ATLANTIC	13,273	13,143	22	3,620	3,751	5	69	13 257	43 1.008	
Del.	159	185	1	32	38	-	-	1	26	
Md. D.C.	1,025 979	697 696	1 1	286 135	329 148	-	32	17 2	382	
Va. W. Va.	754 64	495 15	3	320 64	305 63	2	7 1	22 1	175 35	
N.C.	1,475	942	10	500	477	2	2	155	8	
S.C. Ga.	886 3,351	728 3,224	2 1	401 597	423 597	1 -	1 4	39 18	118 184	
Fla.	4,580	6,161	3	1,285	1,371	-	22	2	80	
E.S. CENTRAL Ky.	3,868 94	2,577 49	14 3	1,404 318	1,390 338	8 2	4 1	74 11	160 45	
Tenn. Ala.	1,620 1,175	1,125 779	8 3	417 421	420 392	6	1 2	53 10	27 85	
Miss.	979	624	-	248	240		-	-	3	
W.S. CENTRAL Ark.	7,106 443	5,141 328	11	2,343 288	2,179 234	40 31	17	95	403	
La.	2,238	1,283	1	251	292		1	20 2	32 28	
Okla. Tex.	215 4,210	95 3,435	7 3 ·	175 1,629	190 1,463	8 1	2 14	67 6	117 226	
MOUNTAIN	754	577	29	461	437	17	20	13	202	
Mont. Idaho	6	1 1	2	22 12	16 24	-	-	4 1	44 7	
Wyo. Colo.	2 42	6 60	2 7	5 27	41	5	•	1	47	
N. Mex.	40	26	3	94	81	5 4	-	2 1	23 12	
Ariz. Utah	538 17	285 15	9 5	208 37	199 37	3	18	1 3	34 16	
Nev.	109	183	1	56	39	-	2	-	19	
PACIFIC Wash.	3,536 282	4,571 392	46 4	4,152	3,644	4	162	11	281	
Greg.	119	207	2	234 107	200 119	2	21 4	2 1	1	
Calif. Alaska	3,109 16	3,956 5	39	3,606 43	3,117 50	2	127	3	258 22	
Hawaii	10	11	1	162	158	-	10	5	-	
Guam P.R.	2 291	4 469	-	36 102	75 241	-	2	-	36	
V.I. Amer. Samoa	12	8	-	4	4	-	-	-	-	
C.N.M.I.	3	8	-	43	7 23	-	1 4	-	-	

TABLE III. Deaths in 121 U.S. cities,\* week ending November 3, 1990 (44th Week)

All Causes, By Age (Years)  All Causes, By Age (Years)  All Causes, By Age (Years)															
		All Cau	ıses, B	y Age	(Years)		P&I**		All Causes, By Age (Years)						
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	P&I** Total
NEW ENGLAND	608	420		51	16	17	45	S. ATLANTIC	1,433	833		163	67	54	59
Boston, Mass. Bridgeport, Conn.	176 45	116 30		16 5	3	9 1	16 7	Atlanta, Ga.	152	74		21	4	10	6
Cambridge, Mass.	23	19		-			í	Baltimore, Md. Charlotte, N.C.	329 87	198 48		44 4	10 18	5 2	22
Fall River, Mass.	20	16		2	-	1	-	Jacksonville, Fla.	107	66		14	4	4	7
Hartford, Conn. Lowell, Mass.	54 18	28 14		8 1	4	1	1	Miami, Fla.	106	57	25	17	3	4	-
Lynn, Mass.	16	15		i	-	-	:	Norfolk, Va. Richmond, Va.	59	30 49		3 8	3	8	2 4
New Bedford, Mass.	26	24	-	2	-	-	3	Savannah, Ga.	82 32	21	18 5	4	6	1. 2	3
New Haven, Conn.	59	34		7	2	2	2	St. Petersburg, Fla.	66	51	6	3	4	2 7	3
Providence, R.I. Somerville, Mass.	36 10	27 5	6 4	1	1	1	2	Tampa, Fla.	167	103		16	9	7	10
Springfield, Mass.	50	34		2	3	1	4	Washington, D.C. Wilmington, Del.	209 37	104 32		28 1	6	9	2
Waterbury, Conn.	28	20		3	1	-	2	-					-	-	-
Worcester, Mass.	47	38	-	2	1	1	4	E.S. CENTRAL Birmingham, Ala.	793 125	514 69	169 30	58 12	29 9	23 5	53 2
MID. ATLANTIC	2,569	1,679		278	80	54	131	Chattanooga, Tenn.	68	47	12	5	2	2	3
Albany, N.Y. Allentown, Pa.	51 17	41 13	7 2	2	-	1	7 1	Knoxville, Tenn.	92	57	21	9	2	3	7
Buffalo, N.Y.	112	83		5	3	2	4	Louisville, Ky. Memphis, Tenn.	126 184	85 120		6 15	6 7	4 6	11 14
Camden, N.J.	32	21	4	3	3	ī	-	Mobile, Ala.	66	44		2	2	2	5
Elizabeth, N.J.	24 35	15		3	1	-	4	Montgomery, Ala.§	36	26		2	-	-	4
Erie, Pa.† Jersey City, N.J.	35 56	26 35		9	1 1	3	3 4	Nashville, Tenn.	96	66	21	7	1	1	7
N.Y. City, N.Y.	1,309	832		175	32	18	45	W.S. CENTRAL	1,668	1,009	378	176	61	44	60
Newark, N.J.	60	25		13	1	9	4	Austin, Tex.	65	45		5	2	1	6
Paterson, N.J. Philadelphia, Pa.	27 401	14 245		4	-	2	2	Baton Rouge, La. Corpus Christi, Tex.	20 43	10 28		3 1	3 2	1	2
Pittsburgh, Pa.†	66	42		42 1	16 12	13 2	33 2	Dallas, Tex.	196	102		26	12	7	2
Reading, Pa.	32	26	5	i	'-	-	6	El Paso, Tex.	71	36	16	10	5	4	3
Rochester, N.Y.	121	91	21	5	3	1	6	Fort Worth, Tex	88	52		9	1	4	8
Schenectady, N.Y. Scranton, Pa.†	38 25	30 21	4	3 1	1	-	1	Houston, Tex.§ Little Rock, Ark.	734 77	436 53	169 15	89 3	24 4	16	18 5
Syracuse, N.Y.	76	54	16	i	5	:	4	New Orleans, La.	73	43		5	2	16 2 2	-
Trenton, N.J.	40	25	6	6	ĭ	2	2	San Antonio, Tex.	171	115	36	11	6	3	7
Utica, N.Y.§ Yonkers, N.Y.	19 28	16 24		1	-	-	1	Shreveport, La. Tulsa, Okla.	37 93	24 65		3 11	-	2	3 6
E.N. CENTRAL	2,232	1,470	-	1 177	-	-	2	MOUNTAIN	706	486		66	26	21	39
Akron, Ohio	50	38	445	3	62	78	120 1	Albuquerque, N. Mex		57	100	9	1	3	2
Canton, Ohio	25	14	5	3	2	1	5	Colo. Springs, Colo.	31	21	8	1	-	1	4
Chicago, III.§	564	362		45	10	22	16	Denver, Colo.	129	87	20	12	4	5 2	11 2
Cincinnati, Ohio Cleveland, Ohio	123 155	77 86		7 11	3 7	8 11	11 4	Las Vegas, Nev. Ogden, Utah	94 27	69 24		6 1	2	1	2
Columbus, Ohio	166	101		23	5	5	12	Phoenix, Ariz.	169	105		19	15	5	2
Dayton, Ohio	114	85		7	-	4	4	Pueblo, Colo.	19	15		-	-	1	4
Detroit, Mich. Evansville, Ind.	210	121		25	9	6	6	Salt Lake City, Utah Tucson, Ariz.	32	13		6	3 1	2 1	1 11
Fort Wayne, Ind.	38 54	33 39		2 1	4	2	4 6	1	125	95		12			108
Gary, Ind.	11	5	3	1	2	-	1	PACIFIC Berkeley, Calif.	1,823 20	1,130 14		188	69	41 1	108
Grand Rapids, Mich.		49		3	1	1	3	Fresno, Calif.	64	41	16	2	4	i	3
Indianapolis, Ind. Madison, Wis.	176 45	111 26		12 4	8	6 2	8	Glendale, Calif.	25	23	1	1	-	-	3
Milwaukee, Wis.	141	99		8	1 2	3	3 12	Honolulu, Hawaii	85	51	21	8	3	2	10
Peoria, III.	45	39	1	4	-	1	5	Long Beach, Calif. Los Angeles Calif.	90 412	58 222		6 57	2 25	12	12
Rockford, III.	44	30		6	2	1	4	Oakland, Calif.	53	36		4	3	2	4
South Bend, Ind. Toledo, Ohio	44 114	33 79		4 8	-		1	Pasadena, Calif.	32	24	4	3	-	1	2
Youngstown, Ohio	53	43			5 1	3 2	11 3	Portland, Oreg.	110	74		7	4	1 2	6 12
W.N. CENTRAL	772	553		52	17	19		Sacramento, Čalif. San Diego, Calif.	173 188	107 119	34 41	18 14	12 10	4	20
Des Moines, Iowa	76	53		4	2	19	50 3	San Francisco, Calif.	161	84		27	1	3	8
Duluth, Minn.	30	27	3	-	-	-	2	San Jose, Calif.	157	107	33	11	1	5	13
Kansas City, Kans.	30	19		5	:	-	-	Seattle, Wash.	126	80		19	2	1	2
Kansas City, Mo. Lincoln, Nebr.	103 27	72 19		9	2	-	5 2	Spokane, Wash. Tacoma, Wash.	49 78	36 54	9 12	3 7	2	3	10
Minneapolis, Minn.	176	131		10	2	1	16						427	351	665
Omaha, Nebr.	83	55	17	4	3	4	7	I O AL	2,604 <sup>†</sup>	8,094	2,517	1,209	421	301	000
St. Louis, Mo.	134	92		12	5	8	7								
St. Paul, Minn. Wichita, Kans.	60 53	48 37	9 10	2 4	1 2	-	8	1							
	30	٠,	10	+	- 2	•	•	1							

<sup>\*</sup>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>†</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>††</sup>Total includes unknown ages. §Data not available. Figures are estimates based on average of past available 4 weeks.

Cigarette Sales - Continued

- 5. CDC. State laws restricting minors' access to tobacco. MMWR 1990;39:349-53.
- 6. Hearings Before the Senate Committee on Finance (May 24, 1990) (testimony of Louis W. Sullivan, MD, secretary of health).

# Survey of Smoking-Prevention Education Efforts in Elementary Schools — Washington State, 1989

To achieve the Surgeon General's challenge of a smoke-free society by the year 2000 (1), the initiation of smoking must be prevented in school-aged children. In Washington state, recently enacted legislation will restrict smoking in elementary schools by fall 1991.\* In addition, the Washington State Smoke-Free Class of 2000 Program<sup>†</sup> (SFC 2000), initiated in September 1988, endeavors to create a smoke-free generation beginning with high school students in the year 2000. This report summarizes a 1989 survey by the Washington Department of Health to assess the implementation of SFC 2000 in first-grade classrooms and to characterize smoking policies in elementary schools.

A principle strategy of SFC 2000 is to provide the state's public elementary schools with teaching materials for preventing smoking. The materials are organized into program packets that include activities (e.g., language and art), posters, certificates of recognition, student's pledge, and discussion questions. By January 5, 1989, 555 (53%) of the state's 1049 elementary schools had been provided the modules for use in kindergarten through sixth grade. In May 1989, questionnaires were mailed to a systematic sample of 345 (33%) of the 1049 schools. Nonrespondents received a follow-up mailing and were contacted by telephone. Forty-one schools were excluded because they did not have a first-grade class. Of the remaining 304 schools, 225 (74%) responded.

The questionnaire asked each school about 1) the school district's policy on smoking and smokeless tobacco use by teachers, staff, and students; 2) teachers' attitudes toward teaching smoking prevention; 3) use of SFC 2000 materials or other smoking-prevention teaching materials; and 4) teachers' opinions about the most helpful teaching materials.

Of the 225 schools, 59 (26%) prohibited faculty and staff from smoking in the buildings and on the grounds, and 27 (12%) prohibited smoking only in the buildings. However, 133 (59%) permitted faculty and staff to smoke in designated areas. Six (3%) schools did not respond to the question. Fifty-two (23%) schools were in districts that permitted high school students to smoke; 146 (65%) were in districts that prohibited student smoking in the buildings and on the school grounds; and 27 (12%) did not respond to the question. Forty-one (18%) had no policy regarding smokeless tobacco use.

In 119 (53%) schools, modules about smoking were presented three or more times during the year. In 121 (54%), a smoking-prevention curriculum was considered important.

One hundred twelve (50%) schools had received and were using SFC 2000 materials in first-grade classes. Sixty-seven (30%) schools had not received these \*RCW 28A.120.032.

<sup>&</sup>lt;sup>†</sup>Sponsored by the American Cancer Society, Washington Division, Inc.; the American Heart Association, Washington Affiliate; and the American Lung Association of Washington.

Smoking-Prevention Education - Continued

materials but had implemented other approaches to teach first graders about nonsmoking. Thirty-six (16%) did not include a smoking-prevention program in the curriculum, and none of these had received the SFC 2000 materials. For 10 (4%) schools, the status of smoking-prevention efforts could not be determined.

All the elementary schools that had received SFC 2000 materials had incorporated them into their curricula. For the 36 schools that did not include a smoking-prevention module in their first-grade curriculum, the most commonly cited reasons were unavailability of appropriate instructional materials, lack of sufficient classroom time, and inadequate curriculum guidelines.

Reported by: J Onitsuka, MHS, K Williams, MS, B Pizacani, MPH, V Taylor, BM BS, F Frost, PhD, K Amburgy, MPH, K Tollestrup, PhD, Washington State Dept of Health. Epidemiology Br, Office on Smoking and Health, Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: SFC 2000 is the collaborative response of the American Cancer Society (ACS), the American Heart Association (AHA), and the American Lung Association (ALA) to the Surgeon General's challenge to achieve a smoke-free society by the year 2000 (1). The four goals of SFC 2000 are to 1) provide the children of the class of 2000 and their parents and teachers with specifically designed antismoking education materials, 2) focus media and community attention on these children as the vanguard of a new "smoke-free" generation, 3) build and strengthen local coalitions of the three agencies, and 4) increase volunteer participation in coalition activities. Since 1988, more than 60,000 first-grade teachers nationwide have received material on SFC 2000 to integrate into their curricula.

In 1987, the National Adolescent Student Health Survey determined that, among eighth- and 10th-grade students, 11.0% of all boys and 8.5% of all girls had smoked a cigarette by the fourth grade (2). Because the inclusion of antismoking instruction in school health education curricula reduces initiation of smoking among children and adults (3), the need for early intervention within school health curricula is crucial. In 1988, the National School Boards Association (NSBA) reported that 75% of school districts had antismoking educational programs at the elementary school level (4,5). Of these schools, 74% received materials from volunteer health organizations (e.g., ACS, ALA, and AHA). NSBA also reported that 24% of school districts prohibited smoking by faculty, staff, and administrators and that 96% of schools with written policies on smoking addressed smoking by faculty, staff, and administrators. The findings in Washington were consistent with these national trends.

The National Cancer Institute advisory panel on smoking and school health recently recommended essential elements for school-based smoking-prevention programs (6). These elements include emphasizing the adverse or harmful social and short-term physiologic consequences of tobacco use; training students in refusal skills; involving parents, trained teachers, and peers in smoking-prevention activities; and designing a curriculum that reflects the needs of the community.

To provide local school districts with support for these programs, state health agencies and state superintendents of public instruction should emphasize smoking-prevention education and assist local school districts in obtaining appropriate and useful teaching modules.

Comprehensive teaching materials and supplemental smoking-prevention programs are available from the local ACS, ALA, and AHA offices. Information on the Washington SFC 2000 is available from the Program Director, SFC 2000, ACS, 2120 First Avenue North, P.O. Box 19140, Seattle, WA 98109-1140. Information on the

Smoking-Prevention Education - Continued

national SFC 2000 is available from the Program Director, SFC 2000, 20 North Wacker, Chicago, IL 60606; telephone (312) 346-4675.

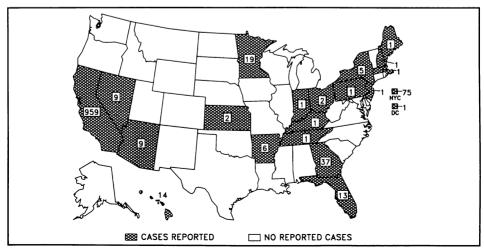
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#### Erratum: Vol. 39, No. 43

The first line of the notice to readers about the Prevention 91 Conference (page 791) should begin: "On March 16–19, 1991 . . . ."

# Reported cases of measles, by state - United States, weeks 40-44, 1990



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