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The Great American Smokeout — November 20, 1997

In 1994, an estimated 48 million U.S. adults were current cigarette smokers; in 1996, at least 4 million U.S. adolescents were current cigarette smokers (1,2). Since 1977, the American Cancer Society (ACS) has sponsored the Great American Smokeout to promote community-based activities that encourage smokers to refrain from smoking cigarettes for at least 24 hours. This year, the Great American Smokeout is Thursday, November 20. This nationwide effort can increase cessation attempts (3): for example, the 1996 promotion was associated with helping an estimated 7400 persons quit smoking (4). This year's promotion focuses on the prevention of both cigar and cigarette smoking and cautions children and adolescents never to start smoking.

Activities this year will include the ACS *Commit to Quit* program, which helps smokers choose a method of quitting that meets their personal needs. In addition, ACS volunteers will conduct smoking-cessation and smoking-prevention activities for persons of all ages at shopping malls, work sites, hospitals, military installations, and other locations.

Additional information is available from ACS, telephone (800) 227-2345 or (404) 320-3333; CDC, telephone (800) 232-1311 or (770) 488-5705; or the ACS Great American Smokeout website on the World-Wide Web (http://www.cancer.org). *Reported by: American Cancer Society, Atlanta, Georgia. Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.*

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State-Specific Prevalence of Cigarette Smoking Among Adults, and Children's and Adolescents' Exposure to Environmental Tobacco Smoke — United States, 1996

In 1996, the prevalence of cigarette smoking was added to the list of nationally notifiable health conditions reported by states to CDC (1). The addition of a health-related behavior to the list of diseases and illnesses reflected the recognized role of tobacco use as the leading preventable cause of death in the United States (2). This report summarizes the 1996 prevalence of current smoking among adults in 49 states and the District of Columbia and presents state-specific estimates of environmental tobacco smoke (ETS) exposure for children and adolescents residing in homes where adults smoke. The findings indicate that state-specific smoking prevalence among adults varied twofold and that approximately 15 million children and adolescents were exposed to ETS in their home.

State-specific data about adult smoking prevalence were obtained from the Behavioral Risk Factor Surveillance System (BRFSS), a state-based, random-digit-dialed telephone survey of the noninstitutionalized U.S. population aged \geq 18 years. The 1996 BRFSS was conducted in 49 states and the District of Columbia. Respondents were asked "Have you smoked at least 100 cigarettes in your entire life?" and "Do you now smoke cigarettes every day, some days, or not at all?" Current smokers were defined as persons who reported having smoked \geq 100 cigarettes during their lifetimes and who currently smoked every day or on some days. Estimates were weighted to represent the populations of each state. For estimates of the percentage of homes with both current cigarette smokers and children and adolescents (persons aged <18 years) living at home, data were weighted to represent the number of households in each state.

Children's and adolescents' ETS exposure was calculated by applying the BRFSSderived prevalence estimates to data from the 1992–1993 and 1996 Current Population surveys (CPSs), an annual survey of the civilian, noninstitutionalized U.S. population. Responses to questions included in the September 1992, January 1993, and May 1993 CPS were used to calculate the state-specific percentage of households that had an adult smoker and any children aged <18 years and that permitted smoking in all or some areas of the home (*3*). To estimate the percentage of households in which a child was exposed to ETS from an adult smoker residing in the home, the percentage of households in which smoking was allowed in the home (1992–1993 CPS) was applied to the percentage of households with an adult smoker and any children (1996 BRFSS). Finally, the resulting percentage was applied to the number of households and multiplied by the number of children in the home (1996 CPS) to calculate the number of children exposed to ETS in the home. Variances associated with these estimates were combined using a Taylor-Series approximation method.

During 1996, the median prevalence of current smoking was 23.6% (Table 1); statespecific prevalences ranged from 15.9% (Utah) to 31.6% (Kentucky). Range endpoints were higher for men (18.6%–33.9%) than for women (13.4%–29.5%). The percentage of households with an adult smoker and any children ranged from 7.0% (District of Columbia) to 14.9% (Alaska) (Table 2). The percentage of households with an adult smoker and children and in which smoking was allowed in some or all areas of the home ranged from 70.6% (Washington) to 95.6% (District of Columbia). The estimated number of children exposed to ETS in the home ranged from 32,105 (Delaware) to

Cigarette Smoking — Continued

		Men	W	/omen		Total
State	%	(95% Cl [§])	%	(95% CI)	%	(95% Cl
Alabama	24.4	(±3.3%)	20.8	(±2.4%)	22.5	(± 2.1%)
Alaska	30.9	(±5.2%)	24.3	(±4.1%)	27.7	(±3.4%)
Arizona	27.2	(±4.2%)	20.6	(±3.2%)	23.8	(±2.5%)
Arkansas	27.7	(±4.2%)	23.3	(±2.7%)	25.4	(±2.4%)
California	21.4	(±2.2%)	15.9	(±1.6%)	18.6	(±1.4%)
Colorado	24.5	(±3.5%)	21.2	(±2.8%)	22.8	(±2.2%)
Connecticut	22.7	(±3.5%)	21.2	(±2.9%)	21.9	(±2.2%)
Delaware	25.0	(±3.3%)	23.5	(±2.7%)	24.2	(±2.2%)
District of Columbia	23.8	(±4.4%)	17.8	(±3.0%)	20.6	(±2.6%)
Florida	23.3	(±2.3%)	20.4	(±1.9%)	21.8	(±1.5%)
Georgia	23.3	(±3.2%)	16.3	(±1.3%) (±2.2%)	20.3	(±1.9%)
Idaho					20.3	
Illinois	21.3	(±2.6%)	21.1	(±2.2%)		(±1.7%)
Indiana	26.3	(±2.8%)	23.5	(±2.3%)	24.8	(±1.8%)
	31.6	(±3.2%)	26.0	(±2.6%)	28.7	(±2.1%)
lowa	26.3	(±2.5%)	21.2	(±1.9%)	23.6	(±1.6%)
Kansas	26.1	(±3.3%)	18.3	(±2.4%)	22.1	(±2.0%)
Kentucky	33.8	(±2.9%)	29.5	(±2.1%)	31.6	(±1.8%)
Louisiana	31.6	(±3.9%)	20.8	(±2.8%)	25.9	(± 2.4%)
Maine	28.9	(±3.7%)	22.0	(±2.9%)	25.3	(± 2.4%)
Maryland	22.6	(±2.5%)	19.6	(±1.9%)	21.0	(±1.5%)
Massachusetts	23.9	(±3.6%)	22.9	(±2.9%)	23.4	(±2.3%)
Michigan	26.5	(±2.9%)	24.8	(±2.4%)	25.6	(±1.9%)
Minnesota	21.7	(±2.0%)	19.5	(±1.7%)	20.6	(±1.3%)
Mississippi	28.6	(±4.2%)	18.5	(±2.6%)	23.2	(± 2.4%)
Missouri	29.0	(±4.0%)	26.7	(±3.1%)	27.8	(± 2.5%)
Montana	20.5	(±3.1%)	22.8	(±2.9%)	21.7	(±2.2%)
Nebraska	25.4	(±4.5%)	18.9	(±2.5%)	22.0	(±2.6%)
Nevada	28.5	(±4.5%)	28.0	(±4.0%)	28.2	(±3.0%)
New Hampshire	25.5	(±4.3%)	24.3	(±3.5%)	24.9	(±2.7%)
New Jersey	25.0	(±2.9%)	20.9	(±2.2%)	22.8	(±1.8%)
New Mexico	24.9	(±5.0%)	20.9	(±3.8%)	22.9	(±3.1%)
New York	23.2	(±2.2%)	23.3	(±1.8%)	23.3	(±1.4%)
North Carolina	30.0	(±3.2%)	23.3	(±2.3%)	25.7	(±1.4%) (±2.0%)
North Dakota	24.4	(±3.4%)	21.5	(±2.9%)	23.4	(±2.3%)
Ohio	33.9		22.5	(±2.9%) (±3.1%)	23.4 28.5	
Oklahoma		(±4.2%)				(±2.6%)
	26.4	(±3.7%)	21.9	(±3.0%)	24.1	(±2.4%)
Oregon	24.4	(±2.7%)	22.6	(±2.2%)	23.5	(±1.7%)
Pennsylvania	23.8	(±2.4%)	25.2	(±2.1%)	24.5	(±1.6%)
Rhode Island	25.7	(±3.5%)	19.8	(±2.6%)	22.5	(±2.2%)
South Carolina	25.3	(±4.2%)	23.8	(±3.0%)	24.5	(±2.5%)
South Dakota	22.3	(±2.9%)	19.2	(±2.4%)	20.7	(±1.9%)
Tennessee	31.1	(±2.9%)	25.2	(±2.2%)	28.0	(±1.8%)
Texas	27.5	(±3.7%)	18.5	(±2.6%)	22.9	(± 2.2%)
Utah	18.6	(±2.7%)	13.4	(±2.1%)	15.9	(±1.7%)
Vermont	26.6	(±3.7%)	21.8	(±2.4%)	24.1	(± 2.2%)
Virginia	27.6	(±3.7%)	22.2	(±2.8%)	24.8	(± 2.3%)
Washington	24.6	(±2.4%)	22.4	(±2.1%)	23.5	(±1.6%)
West Virginia	28.0	(±3.2%)	25.5	(±2.5%)	26.7	(± 2.0%)
Wisconsin	27.6	(±3.6%)	22.4	(±2.9%)	24.9	(±2.3%)
Wyoming	24.4	(±2.9%)	24.8	(±2.5%)	24.6	(±1.9%)
Range		6–33.9		4–29.5		9–31.6
Median		25.5		22.0		23.6

TABLE 1. Prevalence of current cigarette smoking among adults,* by state [†] and
sex — United States, Behavioral Risk Factor Surveillance System, 1996

* Persons aged ≥18 years who reported having smoked ≥100 cigarettes and who reported smoking every day or some days.
 [†]No data were available for Hawaii.
 [§]Confidence interval.

	and a	Current cigarette smoker and any children in the home		llowed in some as of the home	Children exposed to ETS in the home					
State	%	(95% CI**)	%	(95% CI)	%	No.	(95% CI)			
Alabama	10.0	(±1.3%)	88.0	(±5.5%)	23.6	289,110	(± 45,817)			
Alaska	14.9	(±2.6%)	77.9	(±6.3%)	21.6	47,493	(± 9,244)			
Arizona	9.8	(±1.8%)	76.9	(±7.3%)	18.5	227,316	(± 51,459)			
Arkansas	10.8	(±1.4%)	90.2	(±4.5%)	26.6	177,686	(± 28,902)			
California	7.3	(±0.8%)	72.3	(±3.3%)	12.3	1,114,865	(±154,535)			
Colorado	9.1	(±1.4%)	81.6	(±7.1%)	19.0	193,138	(± 34,746)			
Connecticut	9.7	(±1.5%)	84.4	(±6.8%)	20.8	186,859	(± 34,432)			
Delaware	10.0	(±1.3%)	86.2	(±6.4%)	17.7	32,105	(± 5,663)			
District of Columbia	7.0	(±1.6%)	95.6	(±5.1%)	31.8	40,196	(± 9,985)			
Florida	8.1	(±0.9%)	79.8	(±3.3%)	19.6	692,720	(± 86,083)			
Georgia	8.8	(±1.2%)	91.0	(±4.8%)	21.0	423,332	(±108,547)			
ldaho	9.3	(±1.1%)	79.9	(±6.1%)	18.6	61,811	(± 8,996)			
Illinois	9.7	(±1.1%)	87.6	(±2.8%)	24.1	773,657	(± 92,787)			
Indiana	11.6	(±1.3%)	85.4	(±5.1%)	27.5	420,257	(± 58,376)			
lowa	11.4	(±1.1%)	91.7	(±4.1%)	27.2	231,575	(± 28,310)			
Kansas	8.9	(±1.3%)	88.9	(±4.6%)	22.8	161,255	(± 26,077)			
Kentucky	13.9	(±1.3%)	95.0	(±3.2%)	34.2	363,937	(± 40,646)			
Louisiana	10.7	(±1.5%)	85.4	(±5.8%)	23.0	294,892	(± 51,436)			
Maine	11.3	(±1.6%)	86.7	(±4.9%)	25.3	79,530	(± 12,242)			
Maryland	8.8	(±0.9%)	89.3	(±6.1%)	20.1	270,018	(± 39,213)			
Massachusetts	7.4	(±1.2%)	84.3	(±3.4%)	19.7	297,469	(± 52,068)			
Michigan	10.9	(±1.2%)	91.2	(±2.3%)	26.8	716,003	(± 85,401)			
Minnesota	9.1	(±0.9%)	88.9	(±4.6%)	21.6	282,794	(± 33,276)			
Mississippi	11.2	(±1.7%)	86.2	(±5.7%)	23.6	192,720	(± 34,155)			
Missouri	10.2	(±1.5%)	88.9	(±5.1%)	26.9	352,936	(± 58,571)			
Montana	8.6	(±1.3%)	92.9	(±4.2%)	23.3	52,487	(± 8,773)			
Nebraska	9.4	(±1.3%)	86.0	(±5.2%)	21.0	96,897	(± 15,293)			
Nevada	8.7	(±1.6%)	86.0	(±5.8%)	20.8	84,551	(± 16,847)			
New Hampshire	10.4	(±1.6%)	87.0	(±6.0%)	24.6	70,576	(± 12,163)			
New Jersey	9.8	(±1.2%)	82.9	(±3.6%)	20.4	398,218	(± 49,758)			

 TABLE 2. Percentage of households with an adult* current cigarette smoker and any children and adolescents[†] in the home, rules[§] about smoking in the home, and the estimated number of children exposed to environmental tobacco smoke (ETS)

 Image: State in the home, by state in the home in the

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Range Median		-14.9 .8		–95.6 7.5		32,105–1,120,05 229,446	51	_
Wyoming	10.2	(±1.2%)	86.8	(±5.9%)	23.0	33,950	(± 5,017)	MMWR
Wisconsin	11.4	(±1.6%)	90.9	(±4.1%)	28.5	428,302	(± 67,344)	M
West Virginia	10.8	(±1.2%)	93.6	(±3.5%)	30.4	128,665	(± 17,100)	z
Washington	9.5	(±1.1%)	70.6	(±7.5%)	17.7	244,887	(± 39,191)	
Virginia	8.6	(±1.3%)	87.5	(±4.8%)	22.5	336,794	(± 59,265)	
Vermont	10.4	(±1.3%)	88.4	(±5.2%)	24.2	42,340	(± 6,499)	
Utah	8.0	(±1.2%)	73.5	(±8.4%)	11.7	82,929	(± 16,503)	-
Texas	9.6	(±1.4%)	82.0	(±3.4%)	18.4	995,462	(±158,639)	led
Tennessee	14.0	(±1.4%)	90.0	(±4.4%)	32.1	488,846	(± 64,578)	Continued
South Dakota	8.6	(±1.3%)	89.7	(±4.3%)	22.3	45,027	(± 7,448)	'nt
South Carolina	11.3	(±1.7%)	86.2	(±4.7%)	22.2	240,315	(± 43,386)	S
Rhode Island	9.3	(±1.4%)	92.4	(±4.9%)	23.9	53,646	(± 8,179)	
Pennsylvania	11.0	(±1.1%)	87.6	(±2.7%)	27.9	858,229	(± 87,807)	g -
Oregon	9.8	(±1.1%)	75.9	(±7.8%)	20.1	167,533	(± 26,977)	kin
Oklahoma	9.7	(±1.6%)	91.7	(±4.3%)	25.6	216,335	(± 36,983)	o. 44 Smoking
Ohio	11.8	(±1.6%)	91.0	(±2.2%)	29.8	919,290	(±128,696)	Sn lo
North Dakota	10.0	(±1.4%)	89.7	(±4.8%)	23.9	42,729	(± 6,663)	te S
North Carolina	10.1	(±1.2%)	87.5	(±2.7%)	26.1	416,544	(± 51,488)	46 , aret
New York	9.6	(±0.9%)	88.9	(±2.2%)	23.2	1,120,051	(±111,384)	
New Mexico	10.0	(±2.0%)	81.9	(±6.0%)	19.1	103,431	(± 26,654)	Vol. Cig

*Persons aged ≥18 years who reported having smoked ≥100 cigarettes and who reported smoking every day or some days. [†]Persons aged <18 years. [§]Based on the 1992–93 Current Population Survey question, "Which statement best describes the rules about smoking in your home?" Allowing smoking is defined as "Smoking is allowed in some places or at some times" and "Smoking is permitted anywhere." Restricted to adult smokers with children in the home. [¶]No data were available for Hawaii.

** Confidence interval.

Cigarette Smoking — Continued

1,120,051 (New York), and the estimated percentage of children ranged from 11.7% (Utah) to 34.2% (Kentucky) (Table 2).

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Editorial Note: The findings in this report highlight the wide range of smoking prevalence and children's and adolescents' exposure to ETS across states and underscore the large population at risk for serious health effects of tobacco use (both smokers and nonsmokers). Compared with 1995 (4), the 1996 median prevalence of current smoking among adults increased approximately 1%; in 24 states, state-specific prevalences increased \geq 1%, and increases were statistically significant in 10 states. The increase from 1995 to 1996 may reflect, in part, the 1996 change in the definition used to assess self-reported smoking prevalence (in 1995, respondents were asked "Have you smoked at least 100 cigarettes in your entire lifetime?" and "Do you smoke cigarettes now?") (5). By including some-day smoking with every-day smoking in the definition of current smoking, prevalence estimates increase by approximately 1% (5).

The estimates in this report are subject to at least three limitations. First, because the proportion of restrictive smoking policies in the home may have increased since 1992–1993, the CPS data may have overestimated the percentage of households in which smoking in all or some areas was permitted. Second, total exposures for children may have been underestimated because of failure or inability to include other sources of exposure to ETS both inside the home (e.g., a household guest smoking a cigarette, cigar, or pipe) and outside the home. Finally, prevalence estimates may be underestimated because data were collected through telephone interviews; previous studies have documented substantial differences in the characteristics of persons who reside in households without a telephone compared with those who reside in households with a telephone.

In 1992, the Environmental Protection Agency classified ETS as a Group A carcinogen known to cause cancer in humans (6). The primary source of children's exposure to ETS is in the home (7); children exposed to ETS are at an increased risk for sudden infant death syndrome, acute lower respiratory tract infections, asthma induction and exacerbation, and middle-ear effusions (6,8). The findings in this report indicate that approximately one third to one half of adult current cigarette smokers have children residing in their homes, and in most (>70%) of those homes smoking was permitted in

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some or all areas of the home. Therefore, during 1996, approximately 15 million (21.9%) children and adolescents aged <18 years were exposed to ETS in homes. One of the national health objectives for 2000 is to reduce to \leq 20% the number of children aged \leq 6 years exposed to ETS in the home (objective 3.8) (7). The findings in this report underscore the need for continued national and state-level public health initiatives to reduce cigarette smoking and children's exposure to ETS in the home.

In addition to addressing the smoking behaviors of adults and the related direct deleterious health effects for smokers, public health initiatives also must be directed toward the adverse effects on nonsmokers and on children exposed to ETS in the home. Strategies for reducing the prevalence of cigarette smoking and minimizing children's exposure to ETS include preventing young persons from initiating smoking, encouraging smokers to quit, and educating smokers about the hazards of ETS (9).

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Filter Ventilation Levels in Selected U.S. Cigarettes, 1997

Cigarette brands that deliver \leq 15 mg of tar in official smoking-machine tests accounted for 72.7% of total cigarette sales in 1995 (1). Many of these brands use ventilated filters—a system with small perforations around the filter that are designed to draw in additional air during smoking. In brands with ventilated filters, air introduced through the vents dilutes the amounts of tar, nicotine, carbon monoxide (CO), and other hazardous constituents of cigarette smoke (2). This report summarizes results of tests conducted by researchers at The Pennsylvania State University during July 1997 to measure the percentage of air drawn through the filter vents of 32 brands of

Cigarette Filter Ventilation Levels — Continued

U.S. cigarettes that have tar yields rated by the Federal Trade Commission (FTC) as ranging from 1 mg–18 mg; the report also examines the correlation between the degree of filter ventilation and tar yield. The findings indicate that 30 (94%) of 32 brands tested were ventilated and that percentage filter ventilation varied inversely with standard tar, nicotine, and CO yields.

Testing conditions simulated consumer use of a freshly opened pack of cigarettes. One pack each of 32 commercially available cigarette brands was purchased from retail stores in State College, Pennsylvania, during July 1997. Each pack was opened, and 20 unlit cigarettes were tested within 10 minutes with an FDT Ventilation Tester (Fidus Instrument Corporation, Richmond, Virginia)*, which measured the percentage of additional air drawn into a puff through the filter vents (i.e., percentage filter ventilation[†]). The testing conditions were maintained at an ambient air temperature of 72 F (22 C) (range: 68 F–75 F [20 C–24 C]) and a relative humidity of 60% (range: 55%–65%). Because of the potential for smokers to knowingly or inadvertently block filter ventilation holes with their lips or fingers (*3*), the location of these holes was determined for each of the 32 brands by selecting one cigarette from each pack to be measured to the nearest 0.5 mm by two technicians.

The ventilation percentage for the 32 brands ranged from 0 to 83% (Table 1). Based on four categories of tar yield, there was a linear association between ventilation percentage and tar yield (Figure 1). Standard tar yields varied inversely with percentage filter ventilation (r=–0.93 [degrees of freedom=31]). In addition, ventilation percentage varied inversely with nicotine yield (r=–0.90) and CO yield (r=–0.95 [degrees of freedom=29]) (Table 1). The distance of filter vents from the mouth end of the filter ranged from 11 mm–15 mm (Table 1).

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Editorial Note: From 1954 to 1994, sales-weighted tar yields of cigarettes declined from an estimated average of 37 mg tar to 12 mg tar, respectively (2,4). Despite this decline in tar yields—attributable, in part, to the increased use of filter ventilation—the relative risk for lung cancer has increased, even when accounting for the delayed onset of mortality from tobacco-linked lung cancer (5). Factors potentially associated with the increase in smoking-related mortality are an increase in the number of cigarettes smoked (and therefore, tar exposure) by persons who use reduced-tar brands, inhaling more deeply, and an increased frequency of puffing (2). In addition, smokers who use reduced-tar cigarettes may be blocking some of the filter vents with their fingers or lips, therefore increasing their exposure to the carcinogens in cigarette smoke (3). Compensatory changes in smoking behaviors among persons who smoke reduced-tar cigarettes could be associated with changes in the risk, histology, and site of lung cancers (6).

^{*}Use of trade names and commercial sources is for identification only and does not imply endorsement by CDC or the U.S. Department of Health and Human Services.

[†]The percentage of a standard puff (35-mL volume and 2-second duration) that is air taken into the puff through the filter vents. A cigarette with no filter ventilation would produce a puff undiluted by air from filter vents; a cigarette with 80% filter ventilation would produce a puff that is 80% air from vents and 20% smoke undiluted by air from vents.

Cigarette Filter Ventilation Levels — Continued

		Yield		Closest		
	Tar	Nicotine	СО	vents	Ven	tilation
Brand [¶]	(mg)	(mg)	(mg)	(mm)	%	(SEM**)
Carlton SP	1	0.1	2	15.0	77.6	(±0.32)
Carlton 100 HP	1	0.1	1	14.5	82.5	(±0.29)
Merit Ultima SP	1	0.1	3	11.0	64.4	(±1.45)
Carlton 100 SP	2	0.2	3	15.0	78.6	(±0.48)
Now 100 SP	2	0.2	3	12.5	66.3	(±0.59)
Doral UL SP	4	0.4	6	13.0	56.7	(±0.47)
Benson & Hedges Deluxe UL	5	0.5	7	12.0	E2 6	
100 HP		0.5		12.0	52.6	(±0.61)
Virginia Slims UL 100 HP	5	0.5	5	12.0	55.6	(±0.72)
Cambridge UL 100 SP	5	0.4	8	12.5	53.1	(±0.38)
Merit UL SP	5	0.5	6	11.5	49.0	(±0.54)
GPC UL SP	6	0.5	7	15.0	47.9	(±0.67)
Winston UL SP	6	0.5	8	13.0	48.1	(±0.64)
Merit HP	7	0.6	9	11.0	34.1	(±0.71)
Virginia Slims L 100 HP	8	0.7	8	12.0	39.7	(±0.46)
Doral L SP	8	0.6	10	12.5	18.9	(±0.59)
Newport L SP	9	0.7	11	14.0	21.8	(±0.62)
Red Kamel L HP ⁺⁺	10	0.8	NA	12.5	20.2	(±0.87)
Winston L SP	10	0.7	11	12.0	24.8	(±0.56)
Marlboro L SP	10	0.8	11	12.0	22.5	(±0.60)
Basic L HP	10	0.7	12	12.0	11.1	(±0.40)
GPC L SP	10	0.7	11	15.0	23.7	(±0.34)
Camel L HP	11	0.9	13	12.0	22.3	(±0.58)
Kool Milds SP	11	0.8	11	15.0	25.4	(±0.46)
Marlboro Mediums 100 SP	12	1.0	13	12.5	19.1	(±0.31)
Virginia Slims FF 100 SP	14	1.1	12	12.0	19.9	(±0.87)
Doral FF SP	14	0.9	15	12.0	12.6	(±0.27)
Kool Filter HP	15	1.0	14	_	0	
Winston FF SP	15	1.2	13	15.0	11.7	(±0.87)
Marlboro FF SP	16	1.1	15	12.5	10.2	(±0.26)
Newport FF HP	16	1.2	16		0	
Red Kamel FF HP ^{††}	17	1.3	NA	15.0	21.8	(±0.99)
Camel FF SP	18	1.4	20	14.5	5.1	(±0.22)

TABLE 1. Selected U.S. cigarette brands*, by tar, nicotine, and carbon monoxide (CO) yields[†]; by distance of closest vents from the mouth end of the filter; and by percentage of filter ventilation[§] — State College, Pennsylvania, 1997

*Use of trade names and commercial sources is for identification only and does not imply endorsement by CDC or the U.S. Department of Health and Human Services.

[†]Source: reference 4.

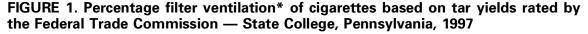
[§]A system with small perforations around the filter that are designed to draw in additional air during smoking.

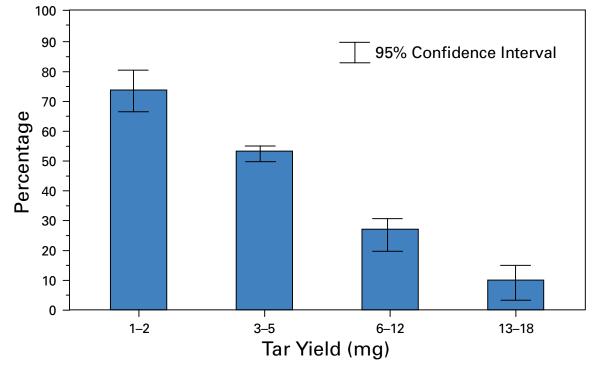
[¶]UL=ultra-light; L=light; FF=full flavor; SP=soft pack; HP=hard pack. Brand is king size unless designated 100.

** Standard error of the mean.

⁺⁺Tar and nicotine yields were attained from advertisements; CO level was not available.

Cigarette Filter Ventilation Levels — Continued





*The percentage of a standard puff (35-mL volume and 2-second duration) that is air taken into the puff through the filter vents. A cigarette with no filter ventilation would produce a puff undiluted by air from filter vents; a cigarette with 80% filter ventilation would produce a puff that is 80% air from vents and 20% smoke undiluted by air from vents.

Blocking even a portion of the filter vents can markedly increase a smoker's exposure to the harmful components of cigarette smoke. Smokers can inadvertently block filter vents because filter vents often are invisible to the unaided eye and the filters do not include a marking (e.g., a colored band) to indicate the presence of vents. Blocking with the lips would more likely occur with the brands with filter vents closer to the mouth end of the filter (7) and blocking with the fingers would more likely occur with brands with filter vents further away from the mouth end of the filter (Table 1). One study has estimated that 58% of persons who smoke cigarettes with ≤4 mg tar are blocking some filter vents (3). In tests conducted on cigarette smoking machines, blocking half of the ventilation holes on a cigarette with standard yields of 4 mg tar, 0.5 mg nicotine, and 5 mg CO increased FTC-rated tar yields by 60%, nicotine by 62%, and CO by 73% (8). In addition, one study by the tobacco industry (7) estimated that, when smoking an ultra-light cigarette (2.2 mg tar), 45% of smokers blocked vents to some degree with their lips: 21% of smokers (or nearly half of those who blocked vents) increased tar yields to at least 3.3 mg tar (i.e., by \geq 50%); overall, approximately one in 10 smokers (approximately 25% of those who blocked vents) were estimated to at least double their tar yields from blocking with their lips alone.

This study is subject to at least four limitations. First, although the cigarette brands tested reflected the range of tar yields for filter cigarettes, the analysis did not use a

Cigarette Filter Ventilation Levels — Continued

sales-weighted or representative sample of all available brands. For example, although cigarettes with <3 mg of tar were included in this study, such cigarettes accounted for only approximately 2% of sales in 1995 (1). Second, the findings for any specific brand could have been affected by factors unique to the sample of cigarettes delivered to the State College area, including, for example, manufacturing dates and retailers' storage conditions (e.g., temperature and humidity). Third, cigarettes were not maintained at standard temperature and humidity conditions for 24 hours before testing; this was done to simulate use of a freshly opened pack of cigarettes by a consumer. Finally, although the analysis used 1994 data on tar yields (1,4) (the most recent available), brand formulations may have changed since 1994.

Many smokers who block filter vents probably are exposed to substantially higher levels of hazardous smoke than the FTC-rated levels for those brands. The FTC recognizes that their machine-measured yields of tar and nicotine are poor predictors of exposure to toxic smoke products by smokers (2) and invites comments (until January 20, 1998) on proposed changes to its testing and reporting system (FTC file number P944509; additional information is available from the FTC's Bureau of Consumer Protection by contacting C. Lee Peeler, telephone [202] 326-3090, or Shira Modell, telephone [202] 326-3116). To identify cigarette brands in which vent-blocking probably is a problem, all cigarette testing should include measurement of filter ventilation.

An estimated two thirds of U.S. smokers either are unaware of the presence of vents on cigarettes or do not know that tar yields increase when vents are blocked (9). Filter vents can be difficult to see, which may account for the high proportion of smokers (80%) of "light" (6–15 mg tar) and "ultra-light" (1–5 mg tar) cigarettes who are unaware of the presence of vents on the brands they smoke (10). These findings underscore the need for intensified efforts to educate smokers about the risks associated with smoking reduced-tar cigarettes.

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Medical-Care Expenditures Attributable to Cigarette Smoking During Pregnancy — United States, 1995

An estimated 26% of women of reproductive age (i.e., 18–44 years) smoked in 1993 (1), and approximately 19%–27% of women smoke during pregnancy (2,3). Smoking during pregnancy is causally associated with an annual estimated 32,000–61,000 lowbirthweight infants and 14,000–26,000 admissions to neonatal intensive-care units (3). The estimated smoking-attributable direct medical-care costs for chronic conditions in 1993 were \$50.0 billion (4); however, this estimate omitted the direct medical costs of tobacco exposure for infants and children and most of these costs for pregnant women. To derive 1995 estimates of the smoking-attributable costs for direct medical expenditures (i.e., inpatient, physician, hospital outpatient, and emergency department costs) related to pregnancy outcomes, the University of California at Berkeley and CDC analyzed data from the 1987 National Medical Expenditures Survey (NMES-2). This report summarizes the findings, which indicate substantial smokingattributable direct medical expenditures for pregnant women and newborns.

The NMES-2 is managed by the Agency for Health Care Policy and Research and is a population-based longitudinal survey of the civilian, noninstitutionalized U.S. population (5). The data are nationally representative and provide cost estimates based on amounts paid by all insurers and by persons paying out-of-pocket for health care. During February 1987–May 1988, data were obtained through a questionnaire administered to a cohort of 35,000 persons in 14,000 households during personal interviews. Of those initially screened, 80% participated in NMES-2. Data were collected about socioeconomic factors, health insurance coverage, use of medical care, and medical-care expenditures. The Medical Provider Use and Expenditure Survey, one supplement of NMES-2, confirmed self-reported medical-care costs and provided information about costs that survey respondents were unable to report. The Adult Self-Administered Questionnaire Household Survey (ASAQHS), also a supplement to NMES-2, provided data about self-reported health status and health-risk behaviors (e.g., smoking, safety-belt use, and obesity). The NMES-2 data indicated that healthcare costs for respondents to the smoking question in ASAQHS were lower than those for nonrespondents, indicating response bias. The Heckman two-stage statistical approach (6) was used to adjust the data.

In this analysis, never smokers were compared with current smokers. Never smokers were defined as persons who smoked <100 cigarettes during their lifetimes, and current smokers, as persons who smoked ≥100 cigarettes during their lifetimes and who smoked at the time of the interview. Respondents to NMES-2 who were pregnant during 1987 were categorized by pregnancy outcome: miscarriage or stillbirth, uncomplicated birth, or complicated birth. A complicated birth was one for which the respondent indicated that the delivery had not been normal or the provider indicated the mother or the infant had been hospitalized under a diagnosis code indicating pregnancy complications (e.g., hemorrhage from placenta previa, maternal infection, fetal distress, or malposition of the fetus). Using multivariate analyses, the probability of each of these pregnancy outcomes and the expected expenditures for each were estimated based on sociodemographic factors (i.e., region of residence, age, race/ ethnicity, income categories, marital status, education level, and insurance coverage), receipt and timing of prenatal care, and smoking status.

Cigarette Smoking During Pregnancy — Continued

Analysis of the 1987 data indicated that the probabilities of miscarriage or stillbirth (0.23) and complicated birth (0.25) were the same for smokers and nonsmokers. The estimated expenditure for an uncomplicated birth also was the same for smokers and nonsmokers—\$3805 in 1987 dollars. However, the estimated cost of a complicated birth in 1987 was significantly higher for smokers than for nonsmokers (\$10,894 versus \$6544; p<0.01).

When extrapolated to the nation, the medical-care expenditures attributable to smokers with complicated births was an estimated \$791 million in 1987 dollars, representing 11% of the total medical expenditures for all complicated births (\$7 billion). These national estimates of smoking-attributable costs for complicated births were derived by using the probability of having a complicated birth (0.25), the number of live-born infants in 1987 (3.8 million) (7), an estimated smoking prevalence during pregnancy of 19%, and the smoking-attributable difference in the expected expenditures for complicated births determined from NMES-2. When a smoking prevalence during pregnancy of 27% (3) was used in the calculation, the estimated smoking-attributable costs were \$1.1 billion (15%).

The smoking-attributable costs of complicated births were updated to 1995 by accounting for medical-care cost inflation* and the number of live-born infants in 1995 (3.9 million) (7). The total smoking-attributable costs were an estimated \$1.4 billion (11% of costs for all complicated births) in 1995 dollars, based on a smoking prevalence during pregnancy of 19%, and an estimated \$2.0 billion (15%), based on a smoking prevalence of 27%.

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Editorial Note: The findings in this report underscore the substantial and preventable economic impact of complicated births among smokers on the medical-care system in the United States: in 1987, the estimated direct medical cost of a complicated birth for a smoker was 66% higher than that for nonsmokers. Despite the magnitude of this difference, in this analysis, three factors probably resulted in underestimates of the smoking-attributable costs associated with pregnancy and delivery during 1987. First, in contrast to previously published reports (*3*), this analysis did not establish a positive relation between smoking during pregnancy and the probability of miscarriage and stillbirth or complicated births; this finding may reflect the small NMES-2 sample of births for which all data were available (n=490). Second, the smoking-attributable costs in this report did not include costs associated with the transfers of newborns to other hospitals or readmissions during the first year of life for medical conditions associated with smoking during pregnancy. Finally, the indirect costs related to infant mortality (e.g., years of productive life lost) and to maternal or infant morbidity (e.g., days lost at work) were excluded from this analysis.

The 1995 estimate of smoking-attributable costs also omits these costs. In addition, the precision of the 1995 estimate is affected by whether the probability of having a complicated birth increased or decreased during 1987–1995 and by changes in medical treatment patterns. For example, if complicated births were treated more inten-

^{*}Adjustments for inflation were calculated using the medical services component of the Consumer Price Index.

Cigarette Smoking During Pregnancy — Continued

sively (i.e., with costlier medical technologies) in 1995 than in 1987, the methodology used to project 1995 expenditures probably would underestimate the 1995 smokingattributable costs of complicated births.

The finding that the costs of complicated births for smokers exceeded those for nonsmokers may reflect greater severity of complications and, therefore, more intense treatment (e.g., longer hospital stays for the mother, more neonatal intensivecare unit days for the infant, and greater use of specialists as well as other personnel). Further analysis is needed to clarify the specific sources of these differences.

Smoking-cessation programs are an important strategy for preventing the adverse outcomes and related costs of smoking during pregnancy. For example, a metaanalysis of randomized trials of prenatal smoking-cessation programs using biochemical validation indicated a 50% increase in cessation over usual practice (8). Despite the effectiveness of this approach, many health-care providers do not offer such programs. To reduce smoking during pregnancy, patients must be more effectively educated about the health consequences of smoking during pregnancy both for them (e.g., placental complications) and for their unborn children (e.g., low birthweight), and health-care providers should be encouraged to provide this information (9). CDC is collaborating with a Robert Wood Johnson Foundation national program (Smoke-Free Families: Innovations to Stop Smoking During and Beyond Pregnancy), which supports the efforts of 10 grantees to develop, test, and evaluate innovative programs to assist childbearing-aged women in quitting smoking before, during, and after pregnancy and to maintain a smoke-free environment for their children.

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Notice to Readers

Availability of Applications for Public Health Prevention Service

The second class of the Public Health Prevention Service (PHPS), a new national training program for master's-level health professionals, will begin September 1998. PHPS offers 3 years of hands-on experience, training, and supervision in applying public health science and theory to building the programs that protect and improve the public's health. These prevention specialists will learn how to effectively apply surveillance, epidemiology, social and behavioral science, social marketing, health communications, and other disciplines to planning, implementing, and evaluating prevention strategies that are practical and effective at the community, state, and national levels. The training program will include two 6-month assignments at CDC in Atlanta, Georgia; Cincinnati, Ohio; Hyattsville, Maryland; or Morgantown, West Virginia, followed by a 2-year assignment in a state or local health department.

Applicants must have a strong interest in a public health career, a master's degree related to public health, and U.S. citizenship. At least 1 year of public health work experience (may include an internship or a thesis project in a community setting as part of a master's degree) is highly desirable. Applications must be submitted by January 5, 1998.

Additional information and applications are available from CDC's Public Health Prevention Service Branch, Division of Applied Public Health Training, Epidemiology Program Office, Mailstop D-18, 1600 Clifton Road, N.E., Atlanta, GA 30333; telephone (404) 639-4087; e-mail phpsepo@cdc.gov; or World-Wide Web site, http://www.cdc.gov/epo/dapht/phps.htm.

Notice to Readers

Availability of Histoplasmosis Prevention Guidelines

Histoplasmosis: Protecting Workers at Risk, revised guidelines for preventing histoplasmosis, was published by CDC's National Institute for Occupational Safety and Health (NIOSH) and National Center for Infectious Diseases (NCID). This publication describes information about health risks of *Histoplasma capsulatum* exposures and specific details about personal protective equipment. These guidelines are designed for health and safety professionals, environmental consultants, and persons supervising workers involved in activities where contaminated materials are disturbed.

Additional information about the guidelines (publication no. 97-146) is available from NIOSH, Publications Dissemination, 4676 Columbia Parkway, Cincinnati, OH 45226-1998; telephone (800) 356-4674; NCID, telephone (404) 639-3158; and the NIOSH website on the World-Wide Web (http://www.cdc.gov/niosh/homepage.html or http://www.cdc.gov/niosh/97-146.html).

Notice to Readers

Availability of New CDC Child Lead Screening Guidance

Screening Young Children for Lead Poisoning: Guidance for State and Local Public Health Officials, outlines a systematic process for states and communities to plan and implement effective childhood blood lead screening. A primary purpose of the document is to increase screening among children who are at high risk for lead exposure. Additional information is available from CDC's National Center for Environmental Health, toll-free telephone (888) 232-6789, or from the World-Wide Web site, http:// www.cdc.gov/nceh/programs/lead/lead.htm.

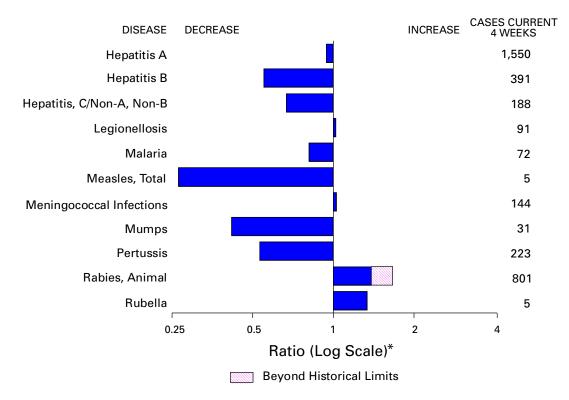


FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending November 1, 1997, with historical data — United States

*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.

TABLE I. Summary — provisional cases of selected notifiable diseases, United States, cumulative, week ending November 1, 1997 (44th Week)

	Cum. 1997		Cum. 1997
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome*† Hemolytic uremic syndrome, post-diarrheal* HIV infection, pediatric* [§]	61 7 4 1,513 5 98 6 10 - 87 16 49 197	Plague Poliomyelitis, paralytic Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal disease, invasive Group A Streptococcal toxic-shock syndrome* Syphilis, congenital [¶] Tetanus Toxic-shock syndrome Trichinosis Typhoid fever Yellow fever	2 38 2 361 1,174 29 430 37 109 7 282

-:no reported cases

*Not notifiable in all states. [†]Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

³Updated monthly to the Division of HIV/AIDS Prevention, Surveillance, and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update October 28, 1997. [¶]Updated from reports to the Division of STD Prevention, NCHSTP.

	All	DS	Chlai	mydia	Esche coli O NETSS [†]		Gono	rrhea	Hepa C/NA	
Reporting Area	Cum. 1997*	Cum. 1996	Cum. 1997	, Cum. 1996	Cum. 1997	Cum. 1997	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996
UNITED STATES	49,050	56,551	380,734	364,641	2,020	1,284	240,319	272,428	2,661	2,942
NEW ENGLAND	2,112	2,324	14,768	14,739	179	116	4,889	5,489	51	91
Maine	50	38 73	820	766	16	-	55	50	- 8	-7
N.H. Vt.	35 32	18	673 356	644 327	12 8	14 3	80 44	140 42	2	24
Mass.	734	1,132	6,233	5,876	95	84	1,836	1,842	34	54
R.I. Conn.	133 1,128	158 905	1,644 5,042	1,626 5,500	8 40	- 15	369 2,505	431 2,984	7	6
MID. ATLANTIC	15,008	15,835	50,580	50,112	125	41	31,186	36,707	307	250
Upstate N.Y.	2,274	2,178	Ň	N N	85	-	5,105	6,436	231	201
N.Y. City	8,026	8,644	26,129	24,519	11	6	11,829	11,959	-	3
N.J. Pa.	2,903 1,805	3,075 1,938	7,693 16,758	10,628 14,965	29 N	23 12	6,037 8,215	7,571 10,741	- 76	46
E.N. CENTRAL	3,578	4,422	58,795	73,110	365	227	36,291	50,604	432	400
Ohio	724	938	16,979	17,602	101	48	10,670	12,873	17	32
Ind.	462	493	7,664	8,240	64	35	5,062	5,498	10	8
III. Mich.	1,523 641	1,980 778	8,985 17 <i>.</i> 628	20,711 17,623	62 138	100	4,489 12,711	14,835 13,209	69 336	79 281
Wis.	228	233	7,539	8,934	N	44	3,359	4,189	-	-
W.N. CENTRAL	964	1,309	20,724	26,926	478	364	9,637	13,029	141	85
Minn. Iowa	177 93	259 75	U 3,827	4,494 3,700	209 111	185 71	U 981	1,881 976	3 29	3 38
Mo.	452	667	10,021	10,568	47	63	6,233	7,334	29 94	22
N. Dak.	13	11	572	792	14	12	39	27	3	-
S. Dak. Nebr.	8 84	11 87	1,134 2,066	1,249 2,328	28 48	23	129 864	155 927	- 2	-7
Kans.	137	199	3,104	2,320 3,795	40 21	10	1,391	1,729	10	, 15
S. ATLANTIC	12,066	14,156	76,346	41,954	183	127	75,369	79,297	227	169
Del.	194	246	1,276	1,148	4	4	1,036	1,231	-	1
Md. D.C.	1,741 895	1,995 1,116	6,142 N	U N	22 2	11	11,028 3,729	9,514 3,871	15	2
Va.	1,011	964	9,714	9,779	N	41	7,120	8,042	24	15
W. Va.	112	101	2,483	1,848	N	1	793	678	16	9
N.C. S.C.	761 698	746 715	15,274 10,634	U U	64 8	34 7	15,081 9,806	16,111 9,569	44 35	44 28
Ga.	1,468	2,065	10,034	9,798	38	-	12,091	15,396	U 35	- 20
Fla.	5,186	6,208	20,389	19,381	40	29	14,685	14,885	93	70
E.S. CENTRAL	1,749	1,924	27,615	26,910	89	36	27,734	29,685	303	492
Ky. Tenn.	319 684	345 702	5,359 10,743	5,741 11,530	28 44	36	3,474 9,361	3,592 10,223	12 215	28 348
Ala.	456	511	7,336	7,108	14	-	10,161	11,315	10	4
Miss.	290	366	4,177	2,531	3	-	4,738	4,555	66	112
W.S. CENTRAL	5,206	5,687	53,378	46,871	66	16	34,731	32,408	418	331
Ark. La.	193 899	226 1,253	2,072 8,207	1,566 6,331	9 6	5 3	3,466 8,040	3,480 6,831	8 193	8 192
Okla.	256	227	6,301	6,356	9	5	4,071	4,116	7	1
Tex.	3,858	3,981	36,798	32,618	42	3	19,154	17,981	210	130
MOUNTAIN	1,409	1,639	21,049	22,008	227	131	7,392	6,468	399	491
Mont. Idaho	36 48	34 34	878 1,403	1,056 1,289	23 32	22	36 125	32 91	21 60	15 94
Wyo.	13	5	505	520	16	12	44	38	191	150
Colo.	332	434	1,896	2,864	80	56	1,931	1,228	35	58
N. Mex. Ariz.	145 348	139 488	2,571 10,501	3,350 9,105	7 N	6 25	983 3,518	766 3,159	49 25	69 67
Utah	119	159	1,440	1,331	58	-	227	253	4	19
Nev.	368	346	1,855	2,493	11	10	528	901	14	19
PACIFIC Wash	6,958 576	9,254 585	57,479	62,011 7,989	308 103	224 54	13,090	18,741	383	633
Wash. Oreg.	576 261	585 411	7,759 4,199	7,989 4,562	71	54 83	1,645 634	1,758 717	23 3	49 6
Calif.	6,004	8,071	42,772	46,885	123	77	10,067	15,501	217	394
Alaska Hawaii	37 80	28 159	1,301 1,448	1,059 1,516	11 N	3 7	324 420	372 393	- 140	3 181
Guam	2	4	1,448	319	N	-	420	58	-	6
P.R.	2 1,714	2,014	193 U	3 19 U	38	Ū	489	563	129	139
V.I.	86	17	N	Ň	N	U	-	-	-	-
Amer. Samoa C.N.M.I.	- 1	-	- N	- N	N N	U U	- 17	- 11	- 2	-
U.N.IVI.I.		-	IN	IN		-	/ ا		Z	-

 TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending November 1, 1997, and November 2, 1996 (44th Week)

N: Not notifiable U: Unavailable -: no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands

*Updated monthly to the Division of HIV/AIDS Prevention, Surveillance, and Epidemiology, National Center for HIV, STD, and TB Prevention, last update October 28, 1997. [†]National Electronic Telecommunications System for Surveillance. [§]Public Health Laboratory Information System.

	Legion	nellosis	-	me ease	Ma	laria	Syp (Primary &	hilis Secondary)	Tubero	culosis	Rabies, Animal
Reporting Area	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997
UNITED STATES	828	895	8,907	13,495	1,434	1,407	6,825	9,959	14,098	16,334	6,701
NEW ENGLAND	69	62	2,631	3,728	74	66	114	155	354	357	1,023
Maine N.H.	2 7	2 3	8 37	52 44	1 8	7 2	-	- 1	11 13	19 14	174 32
Vt. Mass.	12 22	5 25	8 293	22 232	2 25	8 24	- 56	- 67	5 213	1 179	109 235
R.I.	9	27	357	455	7	7	2	3	31	27	30
Conn.	17	N	1,928	2,923	31	18	56	84	81	117	443
MID. ATLANTIC Upstate N.Y.	170 50	202 64	5,048 2,018	8,297 3,800	374 60	415 76	318 31	459 67	2,636 333	3,044 383	1,440 1,060
N.Y. City N.J.	8 20	19 13	61 1,311	376 1,877	213 77	249 61	71 119	125 157	1,357 566	1,572 630	U 157
Pa.	92	106	1,658	2,244	24	29	97	110	380	459	223
E.N. CENTRAL Ohio	245 109	286 91	86 53	392 24	124 18	157 13	575 181	1,422 532	1,385 228	1,701 246	167 110
Ind.	40	48	28	25	16	14	139	182	132	156	12
III. Mich.	14 71	31 77	5	8 17	39 39	77 37	61 111	404 142	688 247	896 317	17 28
Wis.	11	39	U	318	12	16	83	162	90	86	-
W.N. CENTRAL Minn.	61 2	52 8	121 89	166 63	47 19	40 18	136 U	309 38	460 122	411 92	406 43
Iowa Mo.	11 27	10 15	7 17	18	10 9	2 10	7 101	19 210	45	55 161	138 22
N. Dak.	2	-	-	46 1	3	10	-	210	200 10	8	65
S. Dak. Nebr.	2 12	2 12	1 3	- 5	1 1	- 2	- 5	- 10	10 17	17 21	62 2
Kans.	5	5	4	33	4	7	23	32	56	57	74
S. ATLANTIC Del.	109 11	140 11	658 67	633 169	294 5	261 3	2,782 20	3,284 34	2,780 18	3,058 34	2,688 54
Md.	20	29	445	308	79	76	795	600	271	250	506
D.C. Va.	4 22	7 35	8 56	3 47	19 64	8 42	100 208	109 349	82 254	118 282	5 591
W. Va. N.C.	N 13	N 10	8 32	11 63	1 16	5 27	3 599	9 917	47 346	50 431	82 773
S.C.	7	6	2	6	17	12	328	350	242	302	159
Ga. Fla.	1 30	3 39	1 39	1 25	32 61	26 62	465 264	591 325	519 1,001	555 1,036	278 240
E.S. CENTRAL	41	43	70	74	30	38	1,435	2,140	1,019	1,146	250
Ky. Tenn.	6 28	6 19	8 38	26 20	8 7	10 14	118 642	131 724	138 357	191 402	27 137
Ala. Miss.	3 4	4 14	10 14	8 20	10 5	6 8	371 304	474 811	368 156	356 197	81 5
W.S. CENTRAL	36	20	84	106	50	41	1,075	1,553	1,950	2,007	312
Ark.	6	1	24 3	22 5	5	- 7	125	213	155	167	52 5
La. Okla.	7	7	23	21	13 7	-	314 108	433 156	185 153	194 142	100
Tex.	23	10	34	58	25	34	528	751	1,457	1,504	155
MOUNTAIN Mont.	55 1	44 1	20	8	62 2	55 7	187 -	135	418 7	524 18	172 46
ldaho Wyo.	2 1	- 6	4 4	1 3	- 2	- 7	1	4 2	11 2	7 6	- 31
Colo.	17	8	6	-	27	21	12	24	70	74	19
N. Mex. Ariz.	3 12	2 17	1 2	1	8 11	2 7	16 144	7 79	53 202	77 195	12 50
Utah Nev.	12 7	3 7	1 2	1 2	3 9	5 6	5 9	2 17	27 46	39 108	6 8
PACIFIC	42	46	189	91	379	334	203	502	3,096	4,086	243
Wash. Oreg.	7	6	8 17	14 19	19 21	21 20	9 9	9 8	225 125	237 142	- 14
Calif.	34	35	162	57	329	281	183	482	2,545	3,478	206
Alaska Hawaii	- 1	1 4	2	- 1	3 7	3 9	1 1	- 3	66 135	60 169	23
Guam	-	1	-	-	-	-	3	3	13	74	-
P.R. V.I.	-	-	-	-	5	2 1	213	182	164	137	60
Amer. Samoa	-	-	-	-	-	-	- 9	- 1	- 2	-	-
C.N.M.I.	-	-	-	-	-	-	Э	1	2	-	-

TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States,
weeks ending November 1, 1997, and November 2, 1996 (44th Week)

N: Not notifiable U: Unavailable -: no reported cases

		ienzae,	Н	lepatitis (Vi	ral), by typ	be			Meas	les (Rubec	la)	
		sive		A	E	-	Indi	genous	lmp	orted [†]	-	tal
Reporting Area	Cum. 1997*	Cum. 1996	Cum. 1997	Cum. 1996	Cum. 1997	Cum. 1996	1997	Cum. 1997	1997	Cum. 1997	Cum. 1997	Cum. 1996
UNITED STATES	870	871	23,115	24,240	7,221	8,221	-	66	-	55	121	480
NEW ENGLAND	54	30	553	352	119	185	-	11	-	8	19	16
Maine N.H.	5 9	- 11	52 30	21 18	6 15	2 15	-	- 1	-	1 -	1 1	-
Vt. Mass.	3 33	1 16	12 213	11 170	5 47	12 71	-	- 10	-	- 6	- 16	2 12
R.I.	2	2	126	20	14	9	-	-	-	-	-	-
Conn. MID. ATLANTIC	2 120	- 178	120 1,596	112 1,665	32 1,100	76 1,200	-	- 17	-	1 8	1 25	2 37
Upstate N.Y.	31	44	287	380	245	288	-	2	-	3	5	11
N.Y. City N.J.	30 41	47 48	584 246	506 319	377 200	427 237	-	8 2	-	2	10 2	11 3
Pa.	18	39	479	460	278	248	-	5	-	3	8	12
E.N. CENTRAL Ohio	140 78	155 81	2,273 273	2,156 662	730 69	924 112	-	7	-	3	10	20 5
Ind.	14	13	254	287	80	118	-	-	-	-	-	-
III. Mich.	33 14	43 9	509 1,104	647 385	177 365	296 316	-	6	-	1 2	7 2	3 3
Wis.	1	9	133	175	39	82	-	1	-	-	1	9
W.N. CENTRAL Minn.	47 33	37 23	1,861 165	2,168 111	390 36	439 54	-	12 3	-	5 5	17 8	22 18
lowa	6	4	404	300	38	59	-	-	-	-	-	-
Mo. N. Dak.	4	7	937 10	1,137 117	272 4	256 2	-	1	-	-	1	3
S. Dak. Nebr.	2 1	1 1	19 89	42 127	1 12	5 35	-	8	-	-	8	-
Kans.	1	1	237	334	27	28	-	-	-	-	-	1
S. ATLANTIC Del.	140	158	1,680	1,153 17	1,070	1,116 9	-	1	-	13	14	11 1
Md.	49	2 55	29 194	207	6 156	141	-	-	-	2	2	2
D.C. Va.	- 12	5 9	28 198	35 152	28 108	30 121	-	-	-	1 1	1 1	- 3
W. Va.	3	10	10	14 142	14	28 278	-	-	-	-	2	-
N.C. S.C.	21 4	23 4	174 95	46	215 90	81	-	-	-	2 1	1	2
Ga. Fla.	28 23	32 18	459 493	149 391	110 343	32 396	-	- 1	-	1 5	1 6	2 1
E.S. CENTRAL	40	25	518	1,114	575	739	-	-	-	-	-	2
Ky. Tenn.	5 22	6 9	67 320	45 711	33 384	68 416	-	-	-	-	-	- 2
Ala.	13	9	77	170	60	63	-	-	-	-	-	-
Miss. W.S. CENTRAL	- 44	1 37	54 4,965	188 4,858	98 1 <i>.</i> 049	192 1,056	-	- 3	-	- 5	- 8	- 26
Ark.	1	-	202	396	54	73	-	-	-	-	-	-
La. Okla.	11 28	4 29	214 1,284	172 2,073	139 41	130 24	-	-	-	- 1	- 1	-
Tex.	4	4	3,265	2,217	815	829	-	3	-	4	7	26
MOUNTAIN Mont.	82	48 1	3,765 66	3,830 104	773 9	989 15	-	6	-	2	8	157
Idaho Wyo.	1 4	1	118 34	213 31	40 31	83 38	-	-	-	-	-	1 1
Colo.	12	14	361	404	138	113	-	-	-	-	-	7
N. Mex. Ariz.	9 30	10 15	311 1,998	324 1,492	227 180	365 216	-	- 5	-	-	- 5	17 8
Utah	3	7	504	889	83	80	-	-	-	1	1	118
Nev. PACIFIC	23 203	- 203	373 5,904	373 6,944	65 1,415	79 1,573	-	1 9	-	1 11	2 20	5 189
Wash.	5	4	552	581	65	85	-	1	-	1	2	38
Oreg. Calif.	29 156	26 165	331 4,868	771 5,477	94 1,227	91 1,373	-	6	-	- 8	14	13 41
Alaska Hawaii	6 7	6 2	27 126	40 75	19 10	12 12	-	- 2	-	- 2	- 4	63 34
Guam	-	-	-	7	3	1	U	-	U	-	-	-
P.R. V.I.	-	2	238	204 32	1,238	850 35	-	-	-	-	-	2
Amer. Samoa	-	-	-	-	-	-	U	-	U	-	-	-
C.N.M.I.	6	10	1	1	34	5	U	1	U	-	1	-

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination,
United States, weeks ending November 1, 1997,
and November 2, 1996 (44th Week)

N: Not notifiable U: Unavailable -: no reported cases

 * Of 195 cases among children aged <5 years, serotype was reported for 104 and of those, 42 were type b.

[†]For imported measles, cases include only those resulting from importation from other countries.

		jococcal ease		Mumps			Pertussis			Rubella	
Reporting Area	Cum. 1997	Cum. 1996	1997	Cum. 1997	Cum. 1996	1997	Cum. 1997	Cum. 1996	1997	Cum. 1997	Cum. 1996
UNITED STATES	2,719	2,785	9	474	596	54	4,226	5,271	-	155	220
NEW ENGLAND	174	120	1	9	1	11	768	1,253	-	1	27
Maine	17	10	-	-	-	-	6	39	-	-	-
N.H. Vt.	15 4	7 4	-	-	-	6 1	113 204	122 131	-	-	2
Mass. R.I.	83 19	51 13	- 1	2 6	1	4	403 16	902 30	-	1	21
Conn.	36	35	-	1	-	-	26	29	-	-	4
MID. ATLANTIC	270	282	-	45	78	-	305	418	-	30	12
Upstate N.Y. N.Y. City	56 42	76 39	-	9 3	23 18	-	109 59	231 41	-	3 27	4 5
N.J.	57	57	-	5	4	-	9	28	-	-	2
Pa. E.N. CENTRAL	115 390	110 390	- 3	28 56	33 113	- 5	128 372	118 637	-	- 5	1 3
Ohio	390 148	390 137	3	56 28	40	5 4	372 144	237	-	5	-
Ind. III.	45 121	52 112	-	9 10	8 21	1	51 64	56 150	-	- 2	- 1
Mich.	45	40	-	9	41	-	04 44	40	-	-	2
Wis.	31	49	-	-	3	-	69	154	-	3	-
W.N. CENTRAL Minn.	204 34	201 25	1	15 5	18 6	14 12	368 233	355 279	-	-	-
lowa	45	42	1	8	2	1	54	17	-	-	-
Mo. N. Dak.	88 2	76 3	-	-	7 2	1	54 2	34 1	-	-	-
S. Dak.	5	10	-	-	-	-	4	4	-	-	-
Nebr. Kans.	12 18	21 24	-	2	- 1	-	8 13	7 13	-	-	-
S. ATLANTIC	492	542	1	64	96	3	390	549	-	82	91
Del.	5	2	-	-	-	-	1	22	-	-	-
Md. D.C.	41 8	54 5	1 -	5	31	2	108 3	211 1	-	- 1	- 1
Va. W. Va.	50 16	54 16	-	10	14	-	42 6	76 2	-	1	2
N.C.	84	67	-	10	20	-	109	97	-	59	77
S.C. Ga.	51 95	53 123	-	10 10	6 3	-	25 13	40 19	-	19	1
Fla.	142	168	-	19	22	1	83	81	-	2	10
E.S. CENTRAL	207	206	2	24	20	1	115	192	-	-	2
Ky. Tenn.	42 77	27 55	-	3 5	- 1	- 1	46 36	140 20	-	-	-
Ala. Miss.	70 18	76 48	1 1	9 7	4 15	-	25 8	23 9	-	-	2 N
W.S. CENTRAL	264	40 292	-	, 50	43	5	0 210	9 142	-	- 4	8
Ark.	31	30	-	1	1	4	49	7	-	-	-
La. Okla.	46 37	56 35	-	12	13 1	-	18 27	9 17	-	-	1
Tex.	150	171	-	37	28	1	116	109	-	4	7
MOUNTAIN	162	160	-	54	23	9	1,011	464	-	6	6
Mont. Idaho	9 10	9 22	-	- 3	-	1 1	18 560	33 100	-	- 1	- 2
Wyo.	4	3 36	-	1 3	- 4	- 5	7 267	6	-	-	-
Colo. N. Mex.	44 25	24	N	3 N	4 N	5	267	180 61	-	-	2
Ariz.	41 12	35 15	-	32 8	1 3	- 1	35 18	28 18	-	5	1
Utah Nev.	12	16	-	8 7	15	-	18	38	-	-	- 1
PACIFIC	556	592	1	157	204	6	687	1,261	-	27	71
Wash. Oreg.	74 112	88 103	1 N	19 N	20 N	6	322 17	541 59	-	5	15 1
Calif.	361	388	-	111	153	-	321	625	-	14	52
Alaska Hawaii	2 7	8 5	-	4 23	3 28	-	14 13	3 33	-	- 8	- 3
Guam	1	4	U	1	10	U	-	-	U	-	-
P.R.	10	11	-	7	1	-	1	3	-	-	-
V.I. Amer. Samoa	-	-	Ū	-	1	Ū	-	-	Ū	-	-
C.N.M.I.	-	-	U	4	-	U	-	-	U	-	-

TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending November 1, 1997, and November 2, 1996 (44th Week)

N: Not notifiable U: Unavailable -: no reported cases

	A	II Cau	ises, By	/ Age (Y	ears)		P&I [†]			All Cau	ises, Βγ	/ Age (Y	'ears)		P&I [†]
Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	>65	45-64	25-44	1-24	<1	Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass. New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J.	50 57 4 29 58 2,485 46 20 61 21 17	437 101 24 11 27 37 23 7 24 43 7 44 42 8 25 45 1,705 37 18 49 11 10	36 6 2 5 13 4 5 10 12 11 505 4 1 9 6 5	28 13 2 1 6 1 - 2 2 1 - 1 96 1 1 2 1 2 1 1	931 -11- -244 3- 11	75 	42 10 4 2 · 2 · 2 1 1 · 4 5 11 13 2 · 3 1 · 4 113 2 · 3 1 · 4	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. E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala.	182 64 13 656 168 50 112 95 U 52 41	642 U 966 777 666 399 366 333 1355 5 446 1222 370 59 U 360 300	178 U 266 25 9 12 15 7 8 9 3 142 33 142 27 24 U 11 8 8	98 U 18 13 8 5 6 5 6 13 9 5 41 10 2 7 8 U 2 2	24 U 5 3 1 2 2 6 - 1 3 1 - 13 1 1 5 1 U 2 1 0	20 22 5 1 3 - 1 3 3 - - 1 3 1 1 - - - - - - - -	55U17621458 - 111 - 3311676U11
Erie, Pa. Jersey City, N.J. New York City, N.Y. 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.	46 46 1,220 65 28 499 85 30 119 U 24 88 53 53 17 U	41 26 825 34 23 323 61 25 99 U 17 62 32 32 12 U	7 275 16 2 104 17 2 12 U 6 19 12 4	1 9 12 2 49 6 2 6 U 1 4 7 1 U	2 18 1 13 1 2 U - 1 U	2 11 2 10 1 U 3 1 U	2 50 1 25 6 3 1 U 1 3 3 1 U	Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	138 1,451 76 53 36 143 77 112 396 52 101 207 65 133	92 947 45 44 28 81 55 77 247 27 62 142 45 94	29 311 20 5 7 36 12 19 91 19 23 40 14 25	10 110 5 2 1 16 6 8 34 9 15 3 7	2 53 6 1 4 2 8 15 1 5 7 2 2	5 30 1 6 2 9 1 2 3 1 5	1 90 5 2 2 5 3 8 7 3 3 7 3 10 4 11
E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Celveland, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans.	174 43 131 46 47 36 99 75 871 67 29 38	1,459 38 25 233 86 83 149 90 139 46 45 5 37 126 32 32 32 73 60 616 46 46 24 24	4 4 8 29 31 5 22 4 4 3 5 10 3 1 3 0 5 27 0 6 3 18 9 165 5 3 6	159 2 1 5 4 16 15 8 23 3 2 1 8 5 4 2 3 - 5 4 5 2 4 - 7 5	51 - 16 - 2934 153 - 12131 192214	51 1 1 2 3 5 2 2 8 3 1 1 - - - 6 1 1 1 1 1 0 - - - - - - - - - - - - - -	129 2 1984 11525 5 11384 10676 3471 7	MOUNTAIN Albuquerque, N.M. Boise, Idaho Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Dasadena, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Jose, Calif. San Jose, Calif. Santa Cruz, Calif.	123 187 300 161 21 106 132 1,955 21 58 31 84 556 34 136 2120	665 82 399 40 75 129 23 97 16 66 68 98 1,379 15 39 26 53 54 389 23 106 153 777 83 124 26 26	$\begin{array}{c} 179\\ 18\\ 3\\ 5\\ 311\\ 35\\ 5\\ 33\\ 20\\ 26\\ 345\\ 4\\ 12\\ 2\\ 24\\ 14\\ 19\\ 94\\ 7\\ 20\\ 355\\ 21\\ 33\\ 7\\ 17\end{array}$	72 7 4 5 14 2 3 2 10 5 13 9 2 5 3 5 5 4 4 4 5 16 8 7 14 2 1	35 3 1 8 8 6 6 6 3 4 5 2 3 2 7 4 5 3 1 2 2 3	13 2 4 4 1 2 4 4 4 7 4 7 4 7 6 4 4 7 1 3 5 2 6 5	66 2 4 2 4 9 - 19 1 0 15 14 5 1 7 18 5 1 27 8 16 2 5 5
Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	82 67 184 89 103 110 102	45 49 143 63 68 83 71	13 24 17 22 24	5 3 12 6 9 1 5	4 2 1 3 -	3 2 1 2 2	7 6 3 2 - 7 1	Spokare, Wash. Tacoma, Wash. TOTAL	62 82 12,043 [¶]	50 59	6 17	3 5 895	1 - 293	2 1 226	2 6 707

TABLE IV. Deaths in 122 U.S. cities,* week ending November 1, 1997 (44th Week)

U: Unavailable -: no reported cases *Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. *Pneumonia and influenza. *Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. Total includes unknown ages.

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