



MORBIDITY AND MORTALITY WEEKLY REPORT

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Current Trends

Teenage Pregnancy and Birth Rates — United States, 1990

In 1990, there were an estimated 1 million pregnancies and 521,626 births to U.S. women aged 15-19 years (1). Because of the adverse health, social, and economic consequences of teenage childbearing, CDC analyzed data on teenage pregnancies and births (1,2). These data will be used to monitor progress toward national goals and to assist in targeting program efforts to reduce teenage pregnancy (2). This report presents pregnancy and birth rates for states by race/ethnicity for 1990 and compares rates with those for 1980 (3).

For this report, teenage pregnancy rates were defined as the sum of live births and legal induced abortions per 1000 women aged 15-19 years. Teenage birth rates were defined as the number of live births per 1000 women in the age group, and abortion rates, as the number of legal induced abortions per 1000 women. Information on births was obtained from 1990 birth certificates, and on abortions, from state reports to CDC. Births were reported by state of residence, and abortions, by state of occurrence. Numbers of women aged 15-19 years were obtained from unpublished tabulations provided by the U.S. Bureau of the Census. Because the numbers of abortions by age of women were not available for 10 states, pregnancy rates for women aged 15–19 years could be calculated for only 40 states and the District of Columbia (DC); birth rates were calculated for all 50 states and DC. For this analysis, pregnancy and birth rates were calculated for white, black, and Hispanic women (pregnancy rates were calculated only for the 30 states where information on abortions was available by race and ethnicity of women)*; rates for other racial/ethnic groups were not calculated because the numbers of pregnancies and births for other groups were too small at the state level to compute reliable rates. In addition, abortion data were not available for other racial/ethnic groups. Differences in rates for 1980 and 1990 are statistically significant at the 0.05 level.

^{*}Because of data-collection methods for 1990 abortions, Hispanic origin was not reported separately by race. Abortion data for Hispanics were included with whites for pegnancy rate calculations because 97% of Hispanic women who had a live-borninfant in 1990 were white (1). Six states (Kentucky, Louisiana, Maine, Maryland, North Carolina, and South Dakota) did not report Hispanic origin.

During 1990, pregnancy rates ranged from 56.4 per 1000 women aged 15–19 years (North Dakota) to 110.6 per 1000 (Georgia)[†]; birth rates ranged from 33.0 per 1000 women (New Hampshire) to 81.0 per 1000 (Mississippi) (Table 1).

TABLE 1. Pregnancy rates* and birth rates† for 15–19-year-olds, by race/ethnicity§ and state — United States, 1990

		Pregna	ncy rate			Birt	h rate	
State	White [¶]	Black	Hispanic	Total**	White	Black	Hispanic	Total**
Alabama	†† ††	†† ††	†† ††	†† ††	55.3	105.3	33.8 §§	71.0
Alaska					53.8			65.3
Arizona	96.3	147.7	142.1	100.3	72.3	115.1	123.3	75.5
Arkansas	82.6	157.1	\$\$	98.3	66.2	131.9	99	80.1
California		††	††	11	73.9	101.0	112.3	70.6
Colorado	111	11	111	82.0	52.1	105.9	110.6	54.5
Connecticut	††	††	† †	11	30.5	102.5	121.9	38.8
Delaware	††	††	† †	11	37.4	120.4	§§	54.5
District of Columbia	††	††	††	252.0	11.8	121.4	88.7	93.1
Florida	††	††	††	TT .	52.9	135.0	60.2	69.1
Georgia	86.0	162.2	87.5	110.6	56.6	11ॄ6ָ.2	73.0	75.5
Hawaii				88.2	42.0	§§		61.2
Idaho	58.5	§§	126.0	58.8	50.3	§§	118.6	50.6
Illinois	††	††	††	11	44.3	144.2	94.8	62.9
Indiana	65.1	157.2	76.4	74.3	51.9	122.4	64.5	58.6
lowa	††	11	††	11.0	38.5	119.1	79.9	40.5
Kansas	74.3	180.9	99.3	81.1	50.8	131.9	86.1	56.1
Kentucky	84.1	163.6	††	90.9	63.5	115.8	§§	67.6
Louisiaña	68.5	128.5***	††	92.0	52.1	109.1	20.9	74.2
Maine	67.5	\$\$	††	68.3	42.7	§§	§§	43.0
Maryland	61.1	141.2	††	84.7	36.0	95.5	46.0	53.2
Massachusetts	††	††	††	70.9	30.9	89.5	121.1	35.1
Michigan	††	††	††	85.1	43.1	131.1	94.4	59.0
Minnesota	54.6	217.9	89.9	61.9	30.6	151.7	79.4	36.3
Mississippi	71.6	130.5	99	97.8	55.5	112.7	99	81.0
Missouri	64.7	197.4	57.0	82.6	50.3	143.9	46.4	62.8
Montana				81.7	39.7	§§	§§	48.4
Nebraska	††	††	††	74.2	36.9	135.1	81.7	42.3
Nevada	105.6	156.8	112.8	107.4	68.9	129.3	107.5	73.3
New Hampshire	11	††	††	††	33.1	§§	111	33.0
New Jersey	52.6	181.3	114.9	75.3	28.1	99.6	79.9	40.5
New Mexico	99.5	115.5	122.1	100.4	75.6	94.6	96.9	78.2
New York	74.6	162.4	134.3	92.4	36.7	75.6	81.6	43.6
North Carolina	84.9	155.1	106.1	105.8	52.0	106.6	106.1	67.6
North Dakota	50.4	§§	§§	56.4	29.2	§§	§§	35.4
Ohio	58.2	162.7	81.5	73.2	47.7	129.4	73.9	57.9
Oklahoma	ŤŤ	††	††	††	60.2	116.0	111	66.8
Oregon	87.4	175.5	133.2	89.0	54.0	108.0	113.9	54.6
Pennsylvania	ŤŤ.	11	11	74.6	35.1	124.8	126.1	44.9
Rhode Island	79.9	198.3	134.9	87.7	38.7	114.3	129.8	43.9
South Carolina	76.6	127.0	84.5	95.0	54.3	101.1	66.8 §§	71.3
South Dakota	46.0	99	TT	56.9	35.0	99	99	46.8
Tennessee	86.0	165.1	56.2	101.8	60.3	121.3	40.9	72.3
Texas	96.0	153.4	124.5	102.7	70.6	114.0	103.8	75.3
Utah	62.0	§§	128.7	62.9	47.8	§§	115.0	48.5
Vermont	72.4	§§	§§	72.1	34.3	§§	§§	34.0
Virginia		148.8	74.4	86.4	41.1	98.5	55.5	52.9
Washington	70.2	11	111	95.4	52.2	94.3	113.4	53.1
West Virginia	66.4	103.9	99	67.4	57.1	74.3	§§.4	57.3
Wisconsin	11	103.7	††	66.5	31.2		90.4	42.6
Wyoming	tt	11	††	62.2	54.5	174.7	94.2	56.3
*The array of live his			i 1000		J4.J		77.2	50.5

[†]DC is not included in these comparisons because its pregnancy and abortion rates were higher than for any state, in part because of large numbers of abortions among nonresidents.

^{*}The sum of live births and legal induced abortions per 1000 women aged 15–19 years.

†Live births per 1000 women aged 15–19 years.

§Persons of Hispanic origin may be of any race.

¶For calculation of pregnancy rates, abortions by white race included women of Hispanic origin. Six states (Kentucky, Louisiana, Maine, Maryland, North Carolina, and South Dakota) did not report abortion data by Hispanic origin.

**Includes all racial/ethnic groups.

††Because abortion data were not available, pregnancy rates could not be calculated.

§§§ Rates are not calculated for states with 20 or fewer births to women aged 15–19 years in 1990, or 1000 or fewer women aged 15–19 years in respective racial/ethnic group.

aged 15-19 years in respective racial/ethnic group.

Rates not calculated because 15% or more of the abortions were to women of unknown race/ethnicity.

^{***} Abortions include all races other than white.

††† Hispanic origin was not reported on the birth certificate.

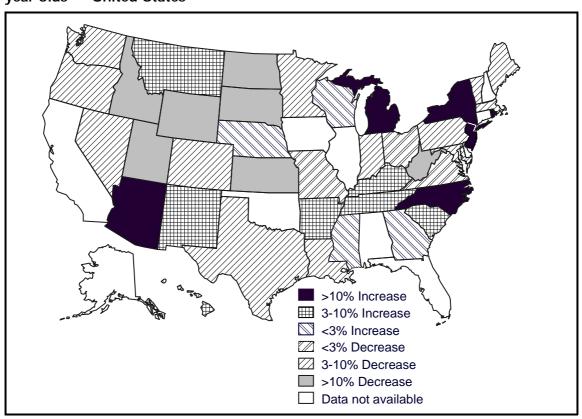
Pregnancy and birth rates were generally higher for blacks than for Hispanics and whites (Table 1), although these rates could not be adjusted for socioeconomic or educational status of mothers. For blacks, in the 24 states for which rates could be calculated, pregnancy rates ranged from 103.9 per 1000 (West Virginia) to 217.9 per 1000 (Minnesota); for Hispanics (20 states), rates ranged from 56.2 per 1000 (Tennessee) to 142.1 per 1000 (Arizona); and for whites, (30 states) pregnancy rates ranged from 46.0 per 1000 (South Dakota) to 105.6 per 1000 (Nevada).

From 1980 to 1990, pregnancy rates declined significantly in 21 of the 40 states and in DC (Figure 1). However, rates in 14 of these 21 states decreased less than 10%. During the decade, pregnancy rates significantly increased in 12 states, and six states reported increases of more than 10%.

From 1980 to 1990, significant declines in abortion rates occurred in 26 of the 40 states and in DC. In 23 of these, the declines were more than 10%; 15 reported decreases of more than 20%. Abortion rates significantly increased in eight states; in five, increases were more than 10%.

In most states, birth rates increased from 1980 to 1990 because declines in abortion rates generally exceeded those of pregnancy rates. Birth rates significantly declined in

FIGURE 1. Percentage change in pregnancy rates from 1980 to 1990 for 15–19-year-olds — United States*



^{*}The percentage change was not statistically significant in Maine, Mississippi, Missouri, Montana, Nebraska, South Carolina, and Wisconsin.

13 states[§]; in eight of these states, the decrease was more than 10%. In contrast, birth rates increased significantly in 29 states and in DC. ¶ Rates in 20 areas increased more than 10%; of these, rates in nine increased more than 20%.

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Editorial Note: Despite national goals to reduce teenage pregnancy in the United States (2), pregnancy and birth rates in the United States in 1990 exceeded those in most developed countries (Alan Guttmacher Institute, unpublished data, 1988; 4). Small declines in pregnancy and birth rates during the early 1980s subsequently reversed, resulting in little net change in the U.S. teenage pregnancy rate over the decade (1,5). From 1986 through 1990, the U.S. birth rate increased nearly 20%, suggesting that a larger proportion of teenage pregnancies resulted in live births (1,6). Other factors that may have affected pregnancy and birth rates included trends in sexual experience among teenagers and variations in the accessibility and use of family-planning and abortion services.

In 1990, teenage pregnancy rates in 10 states could not be calculated because those states did not collect data on the age of women obtaining abortions. However, these 10 states accounted for approximately 39% of all U.S. abortions in 1990. Births alone cannot be used as a surrogate for monitoring overall pregnancies. Because so many teenage pregnancies end in abortion and the rates vary widely by state, states that fail to collect abortion data by age will be unable to adequately monitor their trends in teenage pregnancy.

Differences in teenage pregnancy and birth rates by race/ethnicity may reflect differences in factors such as socioeconomic status, access to family-planning and abortion services, and the use of contraception. For example, during 1983–1988, Hispanic and black women were less likely to use contraception during their first reported premarital sexual intercourse than were white women (32% and 58% versus 70%) (7).

The personal and societal impact of teenage pregnancy in the United States is enormous; an estimated 84% of teenage pregnancies are unintended (i.e., they occur sooner than desired or are not wanted at any time) (2). From 1985 through 1990, the public costs (e.g., Aid to Families with Dependent Children, Medicaid, and food stamps) related to teenage childbearing totaled \$120.3 billion (8). Of this amount, an estimated \$48.1 billion could have been saved if each birth had been postponed until the mother was at least 20 years old. For every public dollar spent on family-planning services for all women, an average of \$4.40 is saved by averting expenditures on medical services, welfare, and nutritional services (9).

More than 70 national health and social welfare organizations support ageappropriate comprehensive school health-education programs to reduce teenage pregnancy (10). These programs counsel abstinence as well as provide teenagers

[§]Idaho, Iowa, Kentucky, Maine, Mississippi, Nebraska, North Dakota, Oklahoma, South Dakota, Utah, Vermont, West Virginia, and Wyoming.

Alabama, Arizona, Arkansas, California, Colorado, Connecticut, DC, Florida, Georgia, Hawaii, Illinois, Maryland, Massachusetts, Michigan, Missouri, Nevada, New Jersey, New Mexico, New York, North Carolina, Ohio, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Virginia, Washington, and Wisconsin.

with the knowledge and skills they need to avoid unplanned pregnancy. In addition to health education efforts, family-planning services for sexually active teenagers are essential for reducing teenage pregnancy.

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Current Trends

Mammography and Clinical Breast Examinations Among Women Aged 50 Years and Older — Behavioral Risk Factor Surveillance System, 1992

Breast cancer is the most commonly diagnosed cancer and the second leading cause of cancer deaths among women in the United States (1). A national health objective for the year 2000 is to reduce breast cancer deaths to no more than 20.6 per 100,000 women (age-adjusted baseline: 22.9 per 100,000 women in 1987) (objective 16.3) (2). To increase early detection of breast cancer, CDC's National Breast and Cervical Cancer Early Detection Program recommends use of mammography and clinical breast examinations at prescribed intervals, especially for older, minority, poor, and less educated women. For asymptomatic women aged ≥50 years, the American Cancer Society (ACS) and the National Cancer Institute (NCI) recommend both an annual screening mammogram and an annual screening clinical breast examination as essential elements of routine preventive health services (3). This report summarizes state-specific and state-aggregate findings from CDC's 1992 Behavioral Risk Factor Surveillance System (BRFSS) regarding use of screening mammography, screening clinical breast examination, and both examinations among women aged ≥50 years.

In 1992, health departments in 48 states and the District of Columbia participated in the BRFSS using a standard questionnaire to conduct random-digit-dialed telephone

surveys in which each state selected a multistage probability sample of adults aged ≥18 years (4); this report presents state-specific and state-aggregate results for female respondents aged ≥50 years. The questionnaire included questions about clinical breast examination (defined as an examination during which a doctor, nurse, or other medical professional felt the breast for lumps) and mammography. This report is restricted to screening examinations (defined as an examination that was part of a routine check-up). Women who reported that they had ever had a mammogram or clinical breast examination were asked the duration since their last examination and whether the last examination was part of a routine check-up, because of a breast problem other than cancer, or because of previously diagnosed breast cancer.

In 1992, the percentages of women aged ≥50 years who reported receiving screening examinations for breast cancer during the year preceding the interview varied widely among the states (Table 1). The percentage of women who reported having had a mammogram ranged from 32.4% to 60.2% (median: 45.1%); a clinical breast examination, from 37.6% to 72.9% (median: 56.9%); and both examinations, from 22.8% to 55.0% (median: 38.8%) (Table 1). Overall, 39.8% of women reported having had both examinations during the year preceding the interview (Table 2).

Respondents were more likely to report having had a clinical breast examination (57.5%) than a mammogram (46.1%) during the year preceding the interview (Table 2). Of women who reported having had a clinical breast examination, 30.8% had that procedure only; of those who reported having had a mammogram, 13.7% had that procedure only. The percentage of women reporting having had either or both examinations during the year preceding the interview increased with years of education and with income but decreased with age (Table 2). There were no differences across racial/ethnic groups in the prevalence of breast cancer screening.

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Editorial Note: Mammography and clinical breast examination combined are more effective in detecting breast cancer than either examination alone (5), and ACS and NCI guidelines for breast cancer screening recommend that women aged ≥50 years receive both examinations annually. The BRFSS findings described in this report indicate that, during the year preceding the survey, approximately 64% of the women aged ≥50 years reported having had either a screening clinical breast examination or a screening mammogram; however, a substantially lower percentage reported having both examinations. The prevalence of incomplete screening may reflect the practices of respondents' physicians, differential recall by respondents of having had

examinations, or differential compliance by respondents. In addition, women who had clinical breast examinations were more likely to have had that procedure only than women who had mammograms; the most important factor in influencing women to have a mammogram is encouragement from physicians (6), but the medical specialty, age, and sex of the physician may influence provision of screening services (7).

TABLE 1. Percentage of women aged ≥50 years who reported having had a screening* mammogram, a screening clinical breast examination,[†] or both during the year preceding the interview, by state — Behavioral Risk Factor Surveillance System, 1992 §

	Man	nmogram		nical camination	Roth ex	Both examinations		
State	%	(95% CI ¹)	%	(95% CI)	%	(95% CI)		
Alabama	49.6	(± 5.0)	59.7	(± 4.9)	42.1	(± 5.1)		
Alaska	53.7	(±10.7)	66.3	(±10.1)	48.2	(±11.0)		
Arizona	40.7	(± 6.8)	51.1	(± 6.4)	34.3	(± 6.1)		
California	53.7	(± 4.0)	58.5	(± 4.0)	45.3	(± 4.0)		
Colorado	51.0	(± 5.8)	67.3	(± 5.4)	44.3	(± 6.0)		
Connecticut	54.0	(± 5.2)	64.8	(± 4.9)	46.4	(± 5.3)		
Delaware	48.9	(± 5.6)	60.6	(± 5.5)	44.3	(± 5.4)		
District of Columbia	60.2	(± 6.1)	72.9	(± 5.3)	55.0	(± 6.1)		
Florida	46.9	(± 4.0)	58.9	(± 3.9)	40.3	(± 3.9)		
Georgia	42.3	(± 5.0)	57.7	(± 5.6)	38.0	(± 5.0)		
Hawaii	45.1	(± 6.2)	37.6	(± 6.4)	22.8	(± 5.4)		
Idaho	36.0	(± 5.4)	55.3	(± 5.5)	33.7	(± 5.3)		
Illinois	46.4	(± 4.7)	66.4	(± 4.7)	44.6	(± 4.7)		
Indiana	38.4	(± 4.5)	47.7	(± 4.5)	31.2	(± 4.2)		
Iowa	43.3	(± 5.0)	54.3	(± 5.0)	39.5	(± 4.8)		
Kansas	42.0	(± 5.8)	54.1	(± 5.9)	37.7	(± 5.7)		
Kentucky	36.8	(± 4.4)	46.7	(± 4.6)	32.9	(± 4.3)		
Louisiana	41.8	(± 5.7)	45.6	(± 5.5)	33.9	(± 5.3)		
Maine	53.8	(± 6.4)	64.9	(± 6.2)	49.5	(± 6.4)		
Maryland	51.3	(± 5.4)	68.5	(± 5.1)	48.4	(± 5.4)		
Massachusetts	50.0	(± 6.5)	56.9	(± 6.5)	40.3	(± 6.4)		
Michigan	50.6	(± 4.6)	53.0	(± 4.4)	41.2	(± 4.5)		
Minnesota	50.5	(± 3.8)	57.4	(± 3.9)	43.3	(± 3.8)		
Mississippi	32.4	(± 5.1)	49.0	(± 5.4)	27.0	(± 4.7)		
Missouri	45.2	(± 5.9)	59.8	(± 5.4)	40.1	(± 5.7)		
Montana	42.3	(± 6.3)	58.2	(± 6.3)	36.2	(± 6.2)		
Nebraska	34.3	(± 5.1)	49.0	(± 5.3)	29.8	(± 4.9)		
Nevada	43.2	(± 5.8)	49.9	(± 5.9)	33.5	(± 5.5)		
New Hampshire	49.4	(± 6.2)	52.6	(± 6.2)	40.2	(± 6.1)		
New Jersey	41.0	(± 5.8)	55.1	(± 6.0)	36.9	(± 5.7)		
New Mexico	50.1	(± 6.4)	55.3	(± 6.8)	40.4	(± 6.5)		
New York	44.8	(± 5.1)	60.2	(± 4.7)	40.4	(± 4.9)		
North Carolina	45.8	(± 4.8)	65.0	(± 4.6)	42.6	(± 4.7)		
North Dakota	43.2	(± 5.4)	52.5	(± 5.4)	36.9	(± 5.2)		
Ohio	42.8	(± 5.9)	59.8	(± 5.8)	38.8	(± 5.8)		
Oklahoma	41.3	(± 5.0)	58.4	(± 5.0)	38.2	(± 5.0)		
Oregon	49.9	(± 3.7)	60.0	(± 3.7)	42.6	(± 3.7)		
Pennsylvania	48.6	(± 4.5)	54.6	(± 4.5)	38.6	(± 4.4)		
Rhode Island	51.5	(± 5.1)	61.8	(± 5.3)	41.8	(± 5.1)		
South Carolina	41.6	(± 5.2)	52.3	(± 5.1)	36.0	(± 5.1)		
South Dakota	41.0	(± 4.9)	52.3	(± 5.0)	32.9	(± 4.8)		
Tennessee	38.0	(± 4.2)	60.5	(± 4.3)	33.9	(± 4.1)		
Texas	45.4	(± 4.9)	55.7 51.0	(± 5.0)	38.8	(± 4.8)		
Utah Vermont	41.0 51.2	(± 5.5) (± 5.0)	51.8 66.7	(± 5.9) (± 4.8)	35.5 47.0	(± 5.3) (± 5.1)		
Virginia	50.3	(± 5.0) (± 5.6)	54.1	(± 4.8) (± 5.8)	47.0 37.9	(± 5.1) (± 5.6)		
Washington	48.4	(± 5.6) (± 4.6)	54.1 59.7	(± 5.8) (± 4.5)	37.9 42.0	(± 5.6) (± 4.6)		
Washington West Virginia	48.4 34.4	(± 4.6) (± 3.9)	59.7 48.8	(± 4.5) (± 4.2)	42.0 29.1	(± 4.6) (± 3.7)		
Wisconsin	41.1	(± 3.9) (± 6.4)	54.7	$(\pm \ 6.5)$	34.4	$(\pm \ 6.2)$		
Median		45.1	5	66.9	3	88.8		

^{*} Defined as an examination that was part of a routine check-up.

¹ An examination during which a doctor, nurse, or other medical professional felt the breast for lumps.

⁵ Data were weighted to the age, race, and sex distribution and probability of selection in each state.

[¶] Confidence interval.

Because the risk for breast cancer increases with age (8), the finding in this report that the percentage of women who reported having had breast cancer screening examinations decreased dramatically with age is of particular concern. Even though the sensitivity of both clinical breast examination and mammography to detect breast cancer increases with age (9), the BRFSS findings indicate that women in the older age groups, who are at highest risk for breast cancer, are least likely to receive breast cancer screening. Reasons for the decreased use are unclear but may include an inaccurate perception among older women of their actual risk for breast cancer (i.e., that risk increases with age), the belief that breast cancer screening examinations are necessary only if a lump is detected during breast self-examination, and the inability of women on limited incomes to pay for annual examinations. In addition, some women aged ≥65 years may be unaware that screening mammography on a biennial basis is a reimbursable benefit of Medicare.

TABLE 2. Percentage of women aged ≥50 years who reported having had a screening* mammogram, a screening clinical breast examination,[†] or both during the year preceding the interview, by age group, race/ethnicity,[§] level of education,[¶] and income — Behavioral Risk Factor Surveillance System, 1992**

	Commis	Mar	nmogram	b	inical reast nination		Both examinations		
Category	Sample size	%	(95% CI ^{††})	%	(95% CI)	%	(95% CI)		
Age group (yrs)									
50-54	3,435	50.8	(± 2.4)	63.7	(± 2.3)	45.2	(± 2.4)		
55-59	3,099	51.6	(±2.6)	61.3	(±2.5)	45.2	(±2.6)		
60–64	3,248	48.2	(±2.5)	58.4	(±2.5)	42.2	(±2.5)		
65–69	3,420	47.7	(±2.5)	57.5	(±2.4)	41.0	(±2.5)		
70–74	3,246	45.7	(±2.5)	55.7	(±2.5)	39.0	(±2.5)		
≥75	5,153	35.6	(±1.9)	50.4	(±2.0)	29.1	(±1.8)		
Race/Ethnicity									
White, non-Hispanic	18,694	46.3	(±1.0)	57.8	(±1.0)	40.1	(±1.0)		
Black, non-Hispanic	1,688	45.3	(±3.5)	58.0	(±3.5)	38.4	(±3.4)		
Hispanic ^{§§}	670	44.7	(±5.7)	52.8	(±5.7)	38.6	(±5.6)		
Education (yrs)			, ,		, ,		, ,		
<12	5,911	35.4	(±1.8)	46.7	(±1.9)	27.9	(±1.7)		
12	7,940	47.7	(±1.6)	59.3	(±1.6)	41.4	(±1.6)		
>12	7,679	52.3	(±1.7)	63.6	(±1.6)	46.8	(±1.7)		
Annual income									
<\$10,000	5,206	34.3	(±2.0)	47.9	(±2.1)	28.4	(±1.9)		
\$10,000-\$20,000	4,986	43.9	(±2.1)	55.8	(±2.0)	36.8	(±2.0)		
>\$20,000	7,232	54.1	(±1.7)	64.9	(±1.6)	48.3	(±1.7)		
Unknown/Refused	4,177	45.7	(±2.2)	55.2	(±2.2)	38.8	(±2.2)		
Total	21,601	46.1	(±1.0)	57.5	(±1.0)	39.8	(±1.0)		

^{*}Defined as an examination that was part of a routine check-up.

[†]An examination during which a doctor, nurse, or other medical professional felt the breast for lumps.

[§]A total of 549 respondents identified themselves as other than black, white, or Hispanic; the numbers in the "other" category were too small for analysis.

[¶]A total of 71 respondents refused to provide years of education or reported that they did not know; the numbers were too small for analysis.

^{**}Aggregated, weighted data.

^{††}Confidence interval.

^{§§}Persons of Hispanic origin may be of any race.

The BRFSS findings also are consistent with previous reports indicating that the levels of breast cancer screening are lowest among women with less than a high school education and with low incomes. Barriers to screening among women of low socioeconomic status include limited access to health care, the cost of screening, and fear of finding breast cancer (10). The differences in the level of compliance with the breast cancer screening recommendations across age groups and income and educational levels were greater than those across racial/ethnic groups, reinforcing the need for intervention programs directed toward older, poorer, and less educated women regardless of race or ethnicity.

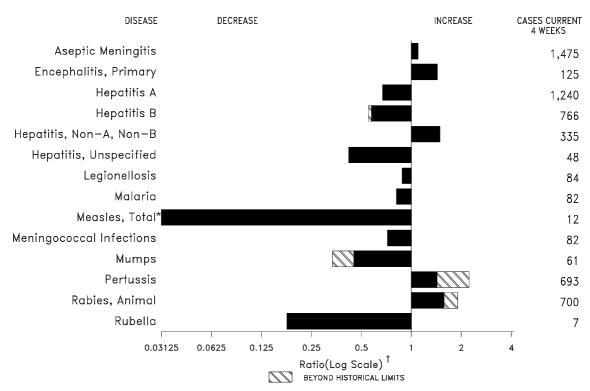
The importance of breast cancer screening should be emphasized through continuing physician education and public awareness campaigns. These efforts should be aimed at increasing 1) the percentage of women who receive both clinical breast examinations and mammograms; 2) the level of screening among women aged ≥50 years, women with incomes less than \$10,000 per year, and women with less than a high school education; and 3) the overall level of screening among all women. To increase access to breast cancer screening, physician education, and public awareness, CDC implemented the National Breast and Cervical Cancer Early Detection Program in 1991. This comprehensive program assists state health agencies in developing effective public health support systems for the early detection process (11).

October is National Breast Cancer Awareness Month. During this month, nation-wide educational activities are planned to increase the public's awareness of the importance of screening for breast cancer. Additional information is available from the American Cancer Society, telephone (800) 227-2345 or the National Cancer Institute's Cancer Information Service, telephone (800) 422-6237.

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FIGURE I. Notifiable disease reports, comparison of 4-week totals ending September 25, 1993, with historical data — United States



^{*}The large apparent decrease in reported cases of measles (total) reflects dramatic fluctuations in the historical baseline. (Ratio (log scale) for week thirty-eight is 0.02233).

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending September 25, 1993 (38th Week)

	Cum. 1993		Cum. 1993
AIDS* Anthrax Botulism: Foodborne Infant Other Brucellosis Cholera Congenital rubella syndrome Diphtheria Encephalitis, post-infectious Gonorrhea Haemophilus influenzae (invasive disease)† Hansen Disease Leptospirosis	75,768	Measles: imported indigenous Plague Poliomyelitis, Paralytic [§] Psittacosis Rabies, human Syphilis, primary & secondary Syphilis, congenital, age < 1 year [¶] Tetanus Toxic shock syndrome Trichinosis Tuberculosis Tularemia Typhoid fever	49 198 7 - 42 1 18,934 677 33 181 9 15,261 101 237
Lyme Disease	4,876	Typhus fever, tickborne (RMSF)	346

[†]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 thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

^{*}Updated monthly; last update September 11, 1993.

†Of 813 cases of known age, 262 (32%) were reported among children less than 5 years of age.

§Two (2) cases of suspected poliomyelitis have been reported in 1993; 4 of the 5 suspected cases with onset in 1992 were confirmed; the confirmed cases were vaccine associated. Reports through first quarter of 1993.

TABLE II. Cases of selected notifiable diseases, United States, weeks ending September 25, 1993, and September 19, 1992 (38th Week)

September 25, 1995, and September 19, 1992 (Sour Week)												
	AIDS*	Aseptic Menin-	Enceph	nalitis Post-in-	Come	rrie o o	Hep	oatitis (\	/iral), by		Legionel-	Lyme
Reporting Area	AIDS	gitis	Primary	fectious	Gond	orrhea	Α	В	NA,NB	Unspeci- fied	Ĭosis	Diśease
	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993
UNITED STATES	75,768	8,370	587	132	275,416	358,721	15,411	8,839	3,511	455	854	4,876
NEW ENGLAND Maine	3,666 113	250 25	14 2	6	6,042 69	7,540 68	356 14	381 10	402 4	12	46 4	1,353 8
N.H.	83	37	-	2	47	86	33	70	323	3	3	50
Vt. Mass.	48 2,053	32 102	4 6	4	18 2,177	19 2,725	4 170	7 230	2 65	9	1 34	5 150
R.I.	248	54	2	-	309	512	61	20	8	-	4	206
Conn.	1,121	-	-	-	3,422	4,130	74	44	-	-	147	934
MID. ATLANTIC Upstate N.Y.	17,807 2,783	568 298	44 31	8 5	31,075 6,355	40,092 7,850	763 262	960 296	268 176	4 1	167 54	2,466 1,365
N.Y. City N.J.	9,670 3,272	104	1	-	8,300 3,046	14,319 5,608	177 211	121 269	1 61	-	3 25	3 532
Pa.	2,082	166	12	3	13,374	12,315	113	274	30	3	85	566
E.N. CENTRAL	6,022	1,385	137	25	53,039	67,146	1,741	1,075	463	12	221	58
Ohio Ind.	1,147 685	485 160	50 17	4 11	16,608 5,796	20,290 6,363	220 500	146 176	32 9	1	115 41	30 14
III.	2,132	300	26	3	13,407	22,063	535	193	51	5	12	8
Mich. Wis.	1,468 590	408 32	34 10	7	12,993 4,235	15,232 3,198	157 329	310 250	337 34	6 -	45 8	6
W.N. CENTRAL	2,563	514	24	9	14,510	19,130	1,731	477	124	12	61	137
Minn. Iowa	531 149	65 91	7 3	- 1	1,793 658	2,176 1,216	320 38	51 22	4 8	4 1	1 8	52 7
Mo.	1,456	158	2	8	8,584	10,736	1,092	344	91	7	17	38
N. Dak. S. Dak.	1 22	12 19	3 5	-	38 192	58 128	63 13	-	-	-	1	2
Nebr.	142	8	1	-	476	1,251	141	12	8	-	27	4
Kans.	262	161	3	-	2,769	3,565	64	48	13	-	7	34
S. ATLANTIC Del.	15,987 279	1,840 54	148 3	54 -	73,468 1,045	107,672 1,293	901 9	1,683 126	483 97	66 -	158 10	686 330
Md.	1,884	188	21	-	12,014	11,344	125 9	201	16	5	39	115
D.C. Va.	1,006 1,227	30 217	32	6	3,585 8,648	4,383 11,938	108	34 110	29	31	13 6	2 57
W. Va. N.C.	55 918	22 173	70 19	-	454 18,576	646 18,209	17 53	30 232	22 55	-	3 20	41 71
S.C.	959	24	-	-	7,873	8,284	11	40	3	1	18	8
Ga. Fla.	2,173 7,486	113 1,019	1 2	48	4,660 16,613	31,730 19,845	68 501	162 748	74 187	- 29	27 22	31 31
E.S. CENTRAL	1,999	529	26	7	32,696	35,877	208	934	710	1	35	18
Ky.	248	226	9	6	3,496	3,512	86	60	10	-	13	5 10
Tenn. Ala.	811 584	110 132	7 1	-	9,928 11,579	11,288 12,601	50 46	789 80	686 4	1	14 2	10 3
Miss.	356	61	9	1	7,693	8,476	26	5	10	-	6	-
W.S. CENTRAL Ark.	7,634 293	971 52	43 1	2	33,280 6,473	39,399 5,642	1,578 41	1,239 48	221 3	133 2	23 3	48 2
La.	981	70	5	-	8,863	10,975	60	168	98	3	3	1
Okla. Tex.	621 5,739	1 848	7 30	2	2,521 15,423	3,988 18,794	123 1,354	240 783	75 45	9 119	11 6	19 26
MOUNTAIN	3,157	503	22	4	8,125	9,057	2,989	430	240	63	56	20
Mont. Idaho	23 56	10	-	1	53 128	84 80	58 162	4 35	2	2	5 1	2
Wyo.	32	5	-	-	64	42	12	21	72	-	5	8
Colo. N. Mex.	1,061 249	143 104	10 4	2	2,555 699	3,292 685	696 281	53 158	39 77	35 2	6 5	2
Ariz.	1,043	150	6	-	3,002	3,087	1,093	72	13	12	12	-
Utah Nev.	217 476	37 54	1 1	- 1	259 1,365	238 1,549	591 96	41 46	24 13	11 1	7 15	3 5
PACIFIC	16,933	1,810	129	17	23,181	32,808	5,144	1,660	600	152	87	90
Wash. Oreg.	1,153 620	-	1	-	2,827 1,179	2,917 1,216	607 71	180 25	140 11	8	9	4 2
Calif.	14,872	1,693	124	17	18,346	27,787	3,820	1,428	437	141	71	83
Alaska Hawaii	49 239	16 101	3 1	-	452 377	495 393	584 62	8 19	9 3	3	- 7	- 1
Guam	-	2		-	38	50	2	2	-	1	-	
P.R.	2,106	41	-	-	385	169	69	300	66	2	-	-
V.I. Amer. Samoa	35	-	-	-	79 37	73 31	16	4	-	-	-	-
C.N.M.I.	-	3	-	-	60	61	-	1	-	1	-	-

N: Not notifiable

U: Unavailable

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

^{*}Updated monthly; last update September 11, 1993.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending September 25, 1993, and September 19, 1992 (38th Week)

		1	Measle	s (Rube	eola)		Menin-								
Reporting Area	Malaria	Indig	enous		orted*	Total	gococcal Infections	Mu	mps	1	Pertussi	s		Rubella	a
Reporting Area	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	Cum. 1993	1993	Cum. 1993	1993	Cum. 1993	Cum. 1992	1993	Cum. 1993	Cum. 1992
UNITED STATES	817	-	198	-	49	2,156	1,747	19	1,197	246	3,639	1,914	3	159	133
NEW ENGLAND	61	-	57 2	-	5	63 4	97 5	-	8	10	585 19	164 11	-	1 1	6 1
Maine N.H.	6	-	2	-	-	13	12	-	-	7	235	31	-	-	-
Vt. Mass.	1 31	-	30 14	-	1 3	- 21	6 54	-	2	-	61 211	7 80	-	-	-
R.I.	2	-	-	-	1	21	1	-	2	-	6	1	-	-	4
Conn. MID. ATLANTIC	19	-	9	-	-	4	19	-	4	3	53	34	-	-	1
Upstate N.Y.	122 46	-	10	-	6 2	203 111	210 93	-	91 33	76 39	443 198	98 56	2 1	51 10	10 7
N.Y. City N.J.	24 31	-	5 5	-	2 2	55 37	19 33	-	2 8	-	7 35	9 33	-	22 13	3
Pa.	21	-	-	-	-	-	65	-	48	37	203	-	1	6	-
E.N. CENTRAL Ohio	55 11	-	15 5	-	6 3	60 6	267 77	5 3	174 68	27 3	761 260	336 47	-	5 1	9
Ind.	3	-	-	-	-	20	45	-	3	23	86	23	-	1	
III. Mich.	29 12	-	5 5	-	- 1	17 13	74 42	2	42 58	- 1	182 56	34 10	-	2	8 1
Wis.	-	-	-	-	2	4	29	-	3	-	177	222	-	1	-
W.N. CENTRAL Minn.	22 4	-	1	-	2	11 10	112 7	-	38 2	49 44	343 191	165 33	-	1	8
Iowa	3	-	-	-	-	10	18	-	7	4	27	5	-	-	3
Mo. N. Dak.	7 2	-	1	-	-	-	45 3	-	22 5	-	89 3	78 13	-	1	1
S. Dak.	2	- U	-	- U	-	-	3 9		- 1	- U	8 9	11 7		-	-
Nebr. Kans.	1	-	-	-	2	-	27	U -	1	1	16	18	U -	-	4
S. ATLANTIC	225	-	15	-	11	125	331	7	373	15	351	119	-	9	13
Del. Md.	2 31	-	1	-	4	1 16	11 41	1	5 66	1 3	14 107	7 20	-	2 2	5
D.C. Va.	10 22	-	-	-	2	- 15	5 37	4	1 25	2 2	8 50	1 10	-	-	-
W. Va.	2	-	-	-	-	-	12	-	15	-	9	7	-	-	1
N.C. S.C.	91 1	-	-	-	-	24 29	56 30	-	195 15	- 1	53 13	22 10	-	-	2
Ga. Fla.	15 51	-	- 14	-	- 5	3 37	73 66	2	14 37	5 1	24 73	14 28	-	- 5	- 5
E.S. CENTRAL	24	-	1	-	-	460	107	1	43	8	246	24	_	-	1
Ky.	4	-	-	-	-	443	20	-	-	3	29	1	-	-	-
Tenn. Ala.	6	-	1	-	-	-	28 34	-	11 22	2	154 52	6 14	-	-	1 -
Miss.	5	-	-	-	-	17	25	1	10	-	11	3	-	-	-
W.S. CENTRAL Ark.	19 3	-	7	-	3	1,098	167 17	4	176 4	22 1	128 8	194 12	-	17 -	6
La. Okla.	2 4	-	1	-	-	- 11	30 25	-	16 11	1	9 69	7 28	-	1 1	-
Tex.	10	-	6	-	3	1,087	95	4	145	20	42	147	-	15	6
MOUNTAIN	27	-	3	-	1	28	141	-	48	15	306	277	-	8	7
Mont. Idaho	2 1	-	-	-	-	-	12 10	-	5	3 6	7 102	4 39	-	1	1
Wyo. Colo.	- 16	-	2	-	- 1	1 22	2 27	-	2 14	- 5	1 89	- 27	-	-	- 1
N. Mex.	5	-	-	-	-	2	4	Ν	N	-	33	71	-	-	-
Ariz. Utah	1	-		-	-	3	68 11	-	7 4	1 -	44 27	110 24	-	2 4	2 1
Nev.	2	-	1	-	-	-	7	-	16	-	3	2	-	1	2
PACIFIC Wash.	262 23	-	89 -	-	15 -	108 10	315 60	2	246 10	24 7	476 55	537 163	1 -	67 -	73 6
Oreg. Calif.	4 229	-	- 78	-	4	3 54	22 212	N 1	N 209	1 16	14 392	31 316	-	3 36	1 44
Alaska Hawaii	1 5	-	11	-	2	9 32	13 8	- 1	8 19	-	5 10	7 20	- 1	1 27	22
Guam	5 1	- U	2	- U	-	32 10	8 1	U	6	U	-	- 20	U	-	3
P.R. V.I.	-	-	224	-	-	339	8	1	3 4	4	6	12	-	-	-
Amer. Samoa	-	-	1	-	-	-	-	-	-	-	2	6	-	-	-
C.N.M.I.	-	-	-	-	1	2	-	-	12	-	1	1	-	-	

^{*}For measles only, imported cases include both out-of-state and international importations. N: Not notifiable U: Unavailable † International § Out-of-state

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending September 25, 1993, and September 19, 1992 (38th Week)

	September 25, 1993, and September 19, 1992 (38th Week)										
Reporting Area		hilis Secondary)	Toxic- Shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal		
	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1992	Cum. 1993	Cum. 1993	Cum. 1993	Cum. 1993		
UNITED STATES	18,934	24,827	181	15,261	16,387	101	237	346	6,481		
NEW ENGLAND	284	488	13	368	334	-	21	5	1,123		
Maine N.H.	4 26	5 34	3 3	28 9	19 14	-	1	-	- 78		
Vt. Mass.	1 105	1 243	1 5	4 202	6 171	-	14	5	19 461		
R.I. Conn.	12 136	24 181	1	44 81	23 101	-	6	-	- 565		
MID. ATLANTIC	1,697	3,437	30	3,441	3,988	1	47	25	2,479		
Upstate N.Y. N.Y. City	149 816	262 1,943	15 1	328 2,044	521 2,320	1	10 26	5	1,910		
N.J.	223	437	-	568	677	-	8	10	319		
Pa. E.N. CENTRAL	509 2,721	795 3,707	14 35	501 1,387	470 1,598	4	3 29	10 11	250 87		
Ohio	879	570	11	230	237	-	6	7	5		
Ind. III.	247 841	207 1,655	1 6	159 609	128 796	1 2	1 16	1 1	8 16		
Mich. Wis.	427 327	699 576	17	324 65	372 65	1	5 1	2	14 44		
W.N. CENTRAL	1,185	1,064	12	337	400	33	2	16	269		
Minn.	56	65	2	42	114	-	-	1	37		
Iowa Mo.	33 982	37 819	5 2	38 176	34 174	14	2	5 7	49 14		
N. Dak. S. Dak.	1 1	1	- -	5 11	7 18	- 15	-	2	51 36		
Nebr. Kans.	10 102	24 118	3	14 51	16 37	1	-	- 1	7 75		
S. ATLANTIC	5,001	6,814	22	3,012	3,012	2	37	156	1,538		
Del. Md.	86 277	156	1 1	36 276	39	-	1	1 10	114		
D.C.	256	484 298	-	121	259 84	-	8 -	-	465 14		
Va. W. Va.	470 11	556 15	6	309 61	269 73	-	4	8 6	287 68		
N.C. S.C.	1,418 734	1,811 927	3	368 289	378 306	1	2	89 10	76 117		
Ga.	837	1,348	2	571	624	-	1	25	351		
Fla. E.S. CENTRAL	912 2,926	1,219 3,130	9 9	981 968	980 1,053	1 5	21 7	7 47	46 163		
Ky.	249	115	2	280	281	1	2	8	14		
Tenn. Ala.	831 620	860 1,095	3 2	145 371	283 296	3 1	2 3	26 4	72 77		
Miss.	1,226	1,060	2	172	193	-	-	9	-		
W.S. CENTRAL Ark.	4,355 583	4,511 667	2	1,673 129	1,852 147	39 23	4	76 4	428 28		
La. Okla.	1,904 295	1,850 257	2	- 110	138 114	- 13	1	1 67	5 56		
Tex.	1,573	1,737	-	1,434	1,453	3	3	4	339		
MOUNTAIN Mont.	177 1	264 7	11	370 15	429	11 5	8	10 1	142 17		
Idaho	-	1	1	9	18	-	-	-	6		
Wyo. Colo.	7 51	3 42	2	2 32	30	2	- 5	8 1	18 23		
N. Mex. Ariz.	24 78	29 134	1 1	46 163	61 197	1	1 2	-	9 52		
Utah	4	7	4	23	62	2	-	-	4		
Nev. PACIFIC	12 588	41 1,412	2 47	80 3,705	61 3,721	1 6	82	-	13 252		
Wash.	45	69	7	180	216	1	6	-	-		
Oreg. Calif.	54 478	31 1,300	40	78 3,218	93 3,178	2	73	-	235		
Alaska Hawaii	6 5	4 8	-	39 190	48 186	-	3	-	17 -		
Guam	1	3	-	28	58	-	-	-	-		
P.R. V.I.	395 34	250 52	-	185 2	174 3	-	-	- -	34		
Amer. Samoa	-	- 5	-	2	-	-	1	-	-		
C.N.M.I.	3	5	-	25	46	-	-	-			

U: Unavailable

TABLE III. Deaths in 121 U.S. cities,* week ending September 25, 1993 (38th Week)

	_	II Cau	SAS RI	/ Age (\				773 (30tii We	· ·	All Cau	ISAS R	y Age (Y	ears)		
Reporting Area	All Ages	≥65	45-64		1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass. Waterbury, Conn.	528 139 35 23 23 43 19 13 5. 21 35 45 22	355 77 27 18 16 22 14 9 15 18 37 2 29	8 4	53 22 1 2 1 8 1 1 1 8 1 1 2 	17 4 1 - 1 1 - - 3 1 - 2	17 8 3 - 1 3 - - - - - 1	41 18 2 - 1 2 1 1 - 7	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. Wilmigton, Del.	171 263 25	807 97 133 66 96 61 31 U 26 41 108 128	300 62 53 14 27 15 14 U 11 4 32 65 3	188 28 32 18 11 17 8 U 2 7 19 45 1	52 11 9 1 2 6 - U 2 - 8 13	40 4 6 5 4 1 U 1 3 4 11 1	63 2 18 7 13 3 U 2 2 14 2
Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa.§ Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburgh, Pa.§ Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa.§ Syracuse, N.Y. Trenton, N.J. Utica, N.Y.	65 24 300 82 U 128 29 34 73 29 18	51 1,522 32 11 72 23 13 15 24 788 24 14 194 58 U 96 24 24 29 29 29 29 29 29 29 29 29 29 29 29 29	3 448 5 7 19 5 16 9 255 16 3 11 10 11 12 15 16	5 308 1 2 2 2 1 9 203 23 4 26 4 4 U 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 66 2 1 1 2 - 41 1 3 10 2 U 1 1 1	1 60 1 4 3 27 1 9 2 U 7	5 116 3 - 4 2 - 1 4 50 9 - 19 4 U 11 1 - 3 2 - 3 3 - 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. 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.	76 83 13 52 42 128 1,485 60 36	91 433 53 60 8 83 33 31 81 938 26 36 130 59 71 183 44 59 126 87	106 211 9 16 18 29 8 23 306 16 6 12 35 19 100 15 20 34 17	42 8 6 4 2 2 5 3 12 149 11 3 4 22 5 5 7 8 11 11 10	15 7 2 1 1 4 55 4 1 12 2 2 12 3 7 7 7 3 1	19 3 - 1 2 1 4 - 8 33 1 - 2 - 25 13 2 1 2 2 3	42 35 98 7 19 69 31 24 5 31 1 7 66
Yonkers, N.Y. E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, Ill. Rockford, Ill. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	185 32 125 46 49 54 120 58 928 131 31 25 133 33	1,342 37 30 200 76 128 79 117 38 46 43 125 22 87 31 39 702 107 25 17 94 28 193 58 104 38	20 30 43 26 45 4 6 8 10 39 7 25 10 8 11 22 14 129 20 3 3 2 2 29 116	228 4 3 112 6 14 13 8 22 2 4 1 3 12 1 5 3 2 3 8 2 2 5 7 1 17 6 9 3 5 7	143 1 97 6 7 2 11 11 1 1 2 3 2 1 2 2 1 7 - 2 1 1 2 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 2 1 2	63 1 15 4 4 6 4 1 1 10 2 2 2 2 2 4 1 1 7 7 1 2 2 2 2 2 4 4 1 7 1 2 2 2 4 4 1 2 2 2 2 2 2 4 4 1 2 2 2 2	101 14 10 2 9 4 7 2 7 4 8 8 1 10 4 7 4 4 3 3 5 3 9 6 1 1 6 1 6 6 1 6 1 6 6 1 6 1 6 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 1 6 1 6 1 1 6 1	MOUNTAIN Albuquerque, N.M. 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. Pasadena, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Diego, Calif. San Jose, Calif. Sant Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	773 91 0. 41 115 116 22 143 22 1 96 127 1,898 13 118 30 71 45 540 25 130 150	511 28 66 76 14 89 19 68 90 1,246 71 24 47 342 17 89 105 89 100 28 87 17	140 19 6 27 21 7 20 2 13 25 342 4 19 3 101 3 18 29 322 23 37 5 21 11 15	70 6 6 8 14 1 15 1 9 10 203 1 14 3 6 3 2 13 12 19 25 9 5 14 3 11 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	23 22 33 3 10 4 1 50 8 1 15 2 9 3 3 5 1 1 1	28 3 1 11 12 - 9 - 1 1 50 - 6 - 4 1 1 1 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1 2 2 3 2 3	33 1 1 4 4 4 13 5 5 93 15 4 7 21 11 13 5 6 23 4 5

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

[†]Pneumonia and influenza.

Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Total includes unknown ages.

U: Unavailable.

Effectiveness in Disease and Injury Prevention

Update: National Breast and Cervical Cancer Early Detection Program, 1992–1993

During the 1990s, an estimated 500,000 U.S. women will die from breast and cervical cancers (1). National efforts to prevent deaths from these cancers have included the implementation of the Breast and Cervical Cancer Mortality Prevention Act of 1990, which aims to increase the efficiency and effectiveness of screening. This program is directed toward women aged ≥40 years and to women who have low incomes, are underinsured or uninsured, or are from racial/ethnic minority groups. This report describes cancer screening in two women in Michigan who received these services in 1992 through the CDC-funded National Breast and Cervical Cancer Early Detection Program and summarizes the assessment of the implementation of this program for low-income women.

In Michigan, the program targets urban and rural white, black, Hispanic, American Indian/Alaskan Native, Asian/Pacific Islander, and Arab women aged ≥40 years. By the end of the program's second year (1992), the number of screening sites had increased by approximately 260%, from 24 to 62. Services are provided at a variety of locations, including public health departments, hospital-based clinics, churches, public housing complexes, and senior citizen centers.

Case 1

In early January 1992, a woman requested assistance from the Michigan Department of Public Health in obtaining a mammogram. The woman, who had a family history of breast cancer, was examined by a physician in December 1991 and advised to have a mammogram because of a suspicious finding on examination. However, the woman lived in a group home with 13 other women, was unemployed, had no insurance, and was not receiving Medicaid. From a friend who learned of Michigan's breast and cervical cancer screening program through a multimedia campaign, she was informed of the services available. The woman subsequently received the appropriate diagnostic and treatment services (2).

Case 2

A woman whose screening services were paid through program dollars at a program-sponsored site had a mammogram with highly suspicious findings. The report was sent simultaneously to the local health department and to the woman's primary-care physician. The program protocol required documentation of patient notification and immediate follow-up of abnormalities. When, within 2 days of receiving the report, the program nurse had not received information about a follow-up appointment, she contacted the primary-care physician; the physician's office had filed the report as "normal." The program nurse indicated to the physician the radiologist's findings of a suspicious lesion. The woman was immediately notified and a biopsy scheduled. The woman's physician is now a strong proponent of the breast and cervical cancer-control program and the need for tracking and follow-up (2).

Breast and Cervical Cancer Early Detection Program — Continued

Assessment of Program Efforts

By July 1992, CDC had awarded \$64 million to 12 state* health agencies to develop comprehensive programs for the early detection of breast and cervical cancers (1). Each state during its 5-year program period will 1) establish, expand, and/or improve screening services in communities with women at risk for breast and cervical cancers; 2) provide appropriate referrals for medical treatment of women screened through this program and ensure the provision of appropriate follow-up services; 3) develop and implement a public education program about the importance of screening in the early detection of breast and cervical cancers; 4) develop and implement a professional education program for physicians and other health-care providers to improve their skills in health education, screening, diagnosis, treatment, and follow-up services; 5) improve quality-assurance measures and ensure adherence to standards and guidelines in the screening and follow-up process; 6) establish a surveillance and evaluation system to monitor the program; and 7) establish and maintain a state-based cancer-control plan and coalition with representation from key private, voluntary, and public organizations and from consumers (1).

In September 1992, CDC awarded approximately \$275,000 per state to an additional 18 state[†] health agencies to begin capacity-building activities (1).

Reported by: Cancer Section, Div of Programs, Michigan Dept of Public Health. Office of the Director, and Program Svcs Br, Div of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: Screening mammography followed by appropriate treatment reduces breast cancer mortality by as much as 30% in women aged >50 years, and nearly all deaths from cervical cancer would be preventable if all women were screened according to guidelines (1). However, screening mammography is underutilized by women with fewer than 12 years of education and women earning less than \$10,000 per year; intervals between Papanicolaou (Pap) smears are longer as women age and for women with lower household incomes (3,4). The two cases described in this report demonstrate the potential benefits of state-based comprehensive breast and cervical cancer screening programs that integrate outreach, screening, tracking, and clinical follow-up. To improve systematic, ongoing information collection efforts by state and federal program personnel and policy makers, CDC is undertaking a comprehensive evaluation of this program.

Benefits resulting from increased support of comprehensive programs have included 1) substantial increases in the number of screening sites (12 states); 2) implementation of 2900 public education programs designed to motivate women to seek screening services; 3) approximately 300 training programs for health-care providers delivered by the state programs; 4) collaboration between state health agencies and an estimated 440 organizations to plan, implement, and evaluate these programs; 5) establishment of coalitions among organizations essential to addressing control of these cancers (12 states); and 6) establishment or modification of cancercontrol plans to address breast and cervical cancer specifically. During 1992, 1305 screening sites were available for women, compared with 575 in 1991.

^{*}California, Colorado, Maryland, Michigan, Minnesota, Missouri, Nebraska, New Mexico, North Carolina, South Carolina, Texas, and West Virginia.

[†]Cooperative agreements ranging from \$250,000-\$300,000 were awarded to Alaska, Arizona, Arkansas, Connecticut, Georgia, Illinois, Indiana, Iowa, Maine, Massachusetts, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Vermont, Washington, and Wisconsin.

The national health objectives for the year 2000 include increasing to at lea 80% the proportion of low-income women aged ≥	st

AIDS — Continued

of the 10 laboratories in the state that perform lymphocyte immunophenotyping. This report summarizes the results of the assessment.

Records of CD4+ T-lymphocyte tests performed at these laboratories were compared with the CDH records of persons with AIDS or HIV infection (not AIDS). For all persons who were not previously reported, CDH contacted the patient's provider or reviewed the medical record to determine whether the patient met reporting criteria. Six categories were used to classify persons tested by laboratory A or B: 1) AIDS with CD4+ T-lymphocyte count <200 per μ L, not previously reported to CDH; 2) HIV-infected with CD4+ T-lymphocyte count \geq 200 per μ L, not previously reported to CDH; 3) previously reported as HIV-infected, reclassified to AIDS, with CD4+ T-lymphocyte count <200 per μ L; 4) previously reported as having AIDS; 5) previously reported as HIV-infected (and not reclassified to AIDS); or 6) not HIV-infected.

From January through December 1992, a total of 1161 CD4+ T-lymphocyte tests were performed at laboratory A, and 485 were performed at laboratory B. The number of persons tested by the two laboratories was 389 and 291, respectively (Table 1). Among persons tested at laboratory A, 49 (13%) with CD4+ counts <200 per μ L were HIV positive and had not been reported previously to CDH, 40 (10%) were HIV infected with CD4+ counts \geq 200 per μ L and not reported previously to CDH, and 69 (18%) were reported previously to CDH as HIV-infected and reclassified to AIDS (CD4+ counts <200 per μ L). Among those tested at laboratory B, five (2%) with CD4+ counts <200 per μ L were HIV positive and had not been reported previously to CDH, 14 (5%) were HIV-infected with CD4+ counts \geq 200 per μ L and not reported previously to CDH, and 48 (16%) were reported previously to CDH as HIV-infected and reclassified to AIDS (CD4+ counts <200 per μ L). Twenty-eight (7%) persons tested by laboratory A and 26 (9%) persons tested by laboratory B were tested for reasons other than HIV infection.

Most persons with AIDS or HIV infection who were identified by review of CD4+ test results but previously unreported to CDH had a diagnosis of HIV infection listed in the medical record by their physician but had no copy of a laboratory report of a positive HIV test. At laboratory A, these cases accounted for 41 (84%) of 49 newly identified AIDS cases and 36 (90%) of 40 HIV-infection (not AIDS) cases. At laboratory B, these

TABLE 1. Classification of persons with AIDS and HIV infection based on review of CD4+ T-lymphocyte tests at two laboratories — Colorado, 1992

	Labo	ratory A	Labo	ratory B	Total		
Category*	No.	(%)	No.	(%)	No.	(%)	
Previously reported as HIV-infected Reclassified as AIDS case [†] HIV infection, not AIDS§	69 115	(17.7) (29.6)	48 95	(16.5) (32.6)	117 210	(17.2) (30.9)	
Previously reported as AIDS	88	(22.6)	103	(35.4)	191	(28.1)	
Not previously reported New AIDS case† New HIV infection, not AIDS§ Not HIV-infected	49 40 28	(12.6) (10.3) (7.2)	5 14 26	(1.7) (4.8) (8.9)	54 54 54	(7.9) (7.9) (7.9)	
Total persons tested	389	(100.0)	291	(100.0)	680	(100.0)	

^{*}Mutually exclusive categories.

[†]Under 1993 AIDS surveillance case definition.

[§]CD4+ T-lymphocyte count ≥200 per μL or CD4+ T-lymphocyte percentage≥14.

AIDS — Continued

cases accounted for four of five newly identified AIDS cases and 12 of 14 HIV-infection (not AIDS) cases.

CDH used the findings of this study to support a request that the Colorado Board of Health amend laboratory reporting regulations to include reporting of CD4+ T-lymphocyte counts <500 per μ L (2). The resulting regulation permits laboratories to fulfill reporting requirements by permitting authorized personnel from CDH's HIV/STD Surveillance Program to review test records.

CDH maintains the records of all persons with HIV infection and AIDS, including CD4+ T-lymphocyte test results, under strict confidentiality safeguards (i.e., restricted access and alarm systems). These records may not be shared or made public on subpoena, search warrant, or discovery proceedings. Penalties for unauthorized disclosure of information are fines, imprisonment, or both.

Reported by: KA Gershman, MD, BA Dahan, BF Krzywicki, HIV/STD Surveillance Program; RE Hoffman, MD, State Epidemiologist, Colorado Dept of Health. Div of HIV/AIDS, National Center for Infectious Diseases, CDC.

Editorial Note: Active case finding, including systematic contacts with hospitals, providers, and laboratories, is important to ensure timely and complete disease reporting (3). The findings in this report suggest that AIDS case ascertainment initiated by laboratory reports of CD4+ T-lymphocyte test results, with provider follow-up or medical record review, can enhance completeness of case surveillance under the 1993 case definition. Other laboratory-based approaches to enhance surveillance for AIDS-defining opportunistic infections have been effective (4).

Active surveillance at two laboratories in Colorado that perform CD4+ T-lymphocyte testing identified a substantial number of AIDS cases meeting the 1993 case definition. At laboratory A, 23% of persons with CD4+ test results had HIV infection or AIDS not previously reported to CDH, compared with 6.5% at laboratory B. The lower proportion of unreported cases at laboratory B is probably a result of active surveillance by CDH at the facility that accounts for most of the CD4+ T-lymphocyte tests performed by laboratory B. In comparison, the facility that accounts for most of the CD4+ T-lymphocyte tests performed by laboratory A relied on passive surveillance from providers.

Of these 108 previously unreported AIDS and HIV cases identified through a review of CD4+ test results at the two laboratories, 85% were based on a diagnosis of HIV infection listed in the medical record without a laboratory report of an HIV-positive test. These patients may have been tested in other states or anonymously. In the absence of CD4+ laboratory reporting, these previously unreported persons would likely remain unreported until hospitalization for an opportunistic infection or death.

The 1993 expansion of AIDS surveillance will enable health departments to monitor more effectively the extent of severe HIV-related immunosuppression and morbidity, and thus better anticipate resources required for provision of ongoing preventive and other health-care services. All states have implemented the 1993 AIDS surveillance case definition. Reporting of CD4+ T-lymphocyte counts <200 per μL may enhance AIDS surveillance efforts.

This report indicates how CD4+ T-lymphocyte reports enhanced surveillance completeness in Colorado. As of August 31, 1993, 17 states require laboratory-initiated reporting of CD4+ T-lymphocyte counts <200 per μ L. Assessments of the

AIDS — Continued

completeness of AIDS reporting under various active surveillance methods are conducted routinely by individual states.

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Current Trends

Update: Influenza Activity — United States and Worldwide, 1993

From October 1992 through February 1993, influenza activity was reported at moderate levels worldwide. Epidemic or outbreak levels of influenza activity were associated with either influenza B or influenza A(H3N2) in many parts of the world. Isolation of influenza A(H1N1) occurred less frequently. This report summarizes worldwide influenza activity reported from March through mid-September 1993 and makes recommendations for vaccination schedules in the United States.

North America and Europe. In most countries, influenza activity peaked in late February or early March and was associated with isolation of influenza B viruses. In March, an increase in the isolation of influenza A(H3N2) that began in mid-January continued throughout the rest of the season. Canada reported influenza A(H3N2) or influenza B outbreaks in nursing homes and other institutions from March through April and detection of sporadic infections caused by influenza A continuing through July. In the United Kingdom, sporadic cases of influenza A(H3N2) were reported during July and August.

In the United States, influenza A(H3N2) was isolated during outbreaks in nursing homes and other institutions during March–May; sporadic isolation of influenza A(H3N2) continued through June. During August, laboratory-confirmed influenza A(H3N2) outbreaks were reported in two nursing homes and among workers on a dredging barge in southern Louisiana (1). Influenza A(H3N2) viruses from the Louisiana outbreaks are antigenically similar to the A/Beijing/32/92 strain (2).

Asia. During March, epidemic level activity associated with the isolation of influenza B viruses was reported in Beijing. Japan reported widespread outbreaks and epidemic levels of influenza activity caused by influenza A(H3N2) viruses continuing into March. Since March, moderate levels of influenza activity caused by influenza A(H3N2) and influenza B have been reported in Hong Kong. From March through August, sporadic isolations of influenza A (untyped), A(H3N2), and influenza B were reported from China, Hong Kong, Indonesia, Korea, Malaysia, Singapore, and Thailand.

Influenza Activity — Continued

Central and South America. Epidemics caused by influenza A(H3N2) were reported in Brazil in March and in Uruguay in May. During May and June, institutional outbreaks caused by influenza A(H3N2) were reported in Argentina. Concomitantly, influenza-like illness (ILI) among all age groups was reported to be widespread in Cordoba, Argentina. From May through July, Chile reported outbreaks due to influenza A(H3N2) and influenza B.

Oceania. Epidemic level activity caused by influenza A (untyped) occurred in Fiji during March and declined in May. During April and May, sporadic isolation of influenza B was reported in Papua New Guinea. In New Zealand, outbreaks caused by influenza B occurred in May followed by widespread outbreaks due to influenza A(H3N2) and sporadic isolation of influenza B from May through July. From March through August, Australia reported mild influenza activity with sporadic isolations of influenza A(H3N2), influenza B, and one case of influenza A(H1N1). During August 15–August 22, a continuing increase in ILI was reported in Victoria and Queensland.

Africa. During February and March, epidemic levels of influenza A(H3N2) occurred in Tunisia. Isolation of influenza A(H3N2) was reported in Madagascar from April through June. Outbreaks due to influenza A(H3N2) occurred in South Africa during May and June.

Characterization of influenza virus isolates. During the 1992–93 influenza season, 873 influenza isolates collected worldwide were characterized antigenically by the World Health Organization Collaborating Center for Surveillance, Epidemiology, and Control of Influenza at CDC; of these, 551 (63%) were from the United States. Of the 457 influenza A(H3N2) isolates characterized, 384 (84%) were closely related to the 1993–94 vaccine strain, A/Beijing/32/92, and 73 (16%) resembled A/Beijing/353/89, the 1992–93 vaccine strain (2). Of the 343 influenza B isolates, 339 (99%) resembled B/Panama/45/90, the 1993–94 vaccine strain, and four (1%) resembled the strain B/Victoria/02/87 (3). All 73 influenza A(H1N1) viruses analyzed were similar to A/Taiwan/01/86 or to the closely related 1993–94 vaccine strain, A/Texas/36/91 (4).

Reported by: World Health Organization National Influenza Centers, Communicable Diseases Div, World Health Organization, Geneva. World Health Organization Collaborating Center for Surveillance, Epidemiology, and Control of Influenza, Influenza Br, and Epidemiology Activity, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Circulation of influenza A/Beijing/32/92(H3N2)-like viruses late in the 1992–93 season and the association of this virus strain with outbreaks in August suggest that influenza A(H3N2) viruses may be the predominant circulating viruses in the United States during the 1993–94 influenza season. Since the emergence of influenza type A(H3N2) in 1968, influenza seasons during which this strain has predominated have been accompanied by a concomitant increase in the proportion of influenza-associated deaths, particularly among persons aged ≥65 years.

Although sporadic cases of influenza can occur at any time, outbreaks rarely occur during the summer in the United States. Sporadic cases of influenza are often first detected during October or November, but outbreaks usually do not begin until December. Although it is unknown whether the outbreaks investigated in Louisiana indicate an early influenza season this year, in the past, similar outbreaks have been followed by early influenza activity in other parts of the United States (5–7). Therefore, CDC recommends that, if possible, vaccination providers complete vaccination

Influenza Activity — Continued

programs by the end of October 1993 rather than conducting routine vaccination programs through mid-November, as is usually recommended (8).

The Advisory Committee on Immunization Practices recommends vaccination against influenza for 1) persons aged ≥65 years; 2) persons who reside in nursing homes or other chronic-care facilities; 3) persons with chronic cardiovascular or pulmonary disorders, including children with asthma; 4) persons who required medical follow-up or hospitalization during the past year because of chronic metabolic disease, renal dysfunction, hemoglobinopathies, or immunosuppression; and 5) children and teenagers who are receiving long-term aspirin therapy and, therefore, may be at risk for developing Reye syndrome after influenza (8). In addition, vaccination is recommended for health-care workers and other persons who are in close contact with persons in high-risk groups, including household members.

The 1993–94 trivalent influenza vaccine contains virus strains of the three distinct groups of influenza viruses in worldwide circulation: A/Texas/36/91-like (H1N1), A/Beijing/32/92-like (H3N2), and B/Panama/45/90-like. Most influenza viruses isolated since March 1993 are closely related to the 1993–94 influenza vaccine.

Even though the vaccine and circulating virus strains appear to be closely matched, antiviral agents can still be a useful adjunct to vaccination (9). Rimantadine hydrochloride, approved for marketing in September by the Food and Drug Administration, and amantadine hydrochloride are specifically active against influenza type A viruses and can be used for prophylaxis or for treatment of influenza A infections in certain situations, including 1) as a control measure when influenza outbreaks occur in institutions—both for treatment of ill persons and as prophylaxis for others; 2) as short-term prophylaxis for high-risk persons vaccinated after influenza activity has begun and who need protection for the 2-week period during which immunity is developing; 3) as prophylaxis during peak influenza activity for persons for whom vaccine is contraindicated or for immunocompromised persons who may not produce protective levels of antibody in response to vaccination; and 4) as prophylaxis for unvaccinated health-care workers and household contacts of high-risk persons either during peak influenza activity or until immunity develops after vaccination. Because amantadine and rimantadine are effective only against influenza type A, use of a rapid diagnostic test for influenza A may assist in determining influenza-control measures (10).

Information regarding influenza surveillance is available through the CDC Voice Information System (influenza update), telephone (404) 332-4555, or through the CDC Information Service on the Public Health Network electronic bulletin board. From October through May, the information is updated at least every other week. In addition, periodic updates about influenza are published in *MMWR*, and information on local influenza activity is available through county and state health departments.

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Influenza Activity — Continued

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Notice to Readers

Recall of Laparotomy Sponges — United States, 1993

On September 8, 1993, Medical Action Industries, Inc.* (MAI) (Farmingdale, New York), announced a voluntary recall of all 300 and 400 Series laparotomy sponges packaged as sterile (lot numbers 100–1434) because of fungal contamination of the sponges. No human disease has been reported related to use of these sponges, which are used in surgical procedures to retract organs or absorb blood and/or other fluids. Cultures performed by the Food and Drug Administration (FDA) and independent laboratories have been positive for *Pyronema domesticum* and a nonsporulating bascidiomycete. Additional testing by FDA of sponges manufactured by this and other firms is under way.

Health-care facilities should inspect their inventory of laparotomy sponges, discontinue use of sponges from the affected lots, and return unused sponges to the manufacturer. Sponges subject to the recall should not be resterilized or reprocessed for use. Alternative manufacturers or distributors may be contacted in case of shortages.

Prophylactic treatment of patients exposed to the affected sponges is not recommended, but hospital personnel should maintain active surveillance for surgical site infections. If postoperative infection develops, patient cultures should be evaluated for fungal pathogens.

Any laparotomy sponges, other than those covered by the recall, that are visibly contaminated, moist, or defectively packaged should immediately be reported to FDA's MedWatch Reporting Program, telephone (800) 332-1088. Any human infection suspected to be related to this contamination should be reported to CDC's Hospital Infections Program, National Center for Infectious Diseases, telephone (404) 639-1550.

Reported by: Office of Surveillance and Biometrics, Center for Devices and Radblogical Health, Food and Drug Administration. Div of Bacterial and Mycotic Diseases and Hospital Infections Program, National Center for Infectious Diseases, CDC.

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

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