



MORBIDITY AND MORTALITY WEEKLY REPORT

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National Adult Immunization Awareness Week — October 22–28, 1995

National Adult Immunization Awareness Week will be October 22–28, 1995. This observance will emphasize the importance of appropriately vaccinating adults against diphtheria, hepatitis B, influenza, measles, mumps, pneumococcal disease, rubella, tetanus, and varicella. National Adult Immunization Awareness Week coincides with the influenza vaccination season and offers opportunities to implement vaccination programs. The following two reports describe efforts to increase pneumococcal and influenza vaccination levels in high-risk populations.

Additional information about this week's activities is available from the National Coalition for Adult Immunization, 4733 Bethesda Ave., Suite 750, Bethesda, MD 20814; telephone (301) 656-0003; fax (301) 907-0878.

Increasing Pneumococcal Vaccination Rates Among Patients of a National Health-Care Alliance — United States, 1993

Streptococcus pneumoniae is the most common cause of bacterial pneumonia worldwide and a leading cause of sepsis and meningitis (1). In the United States, an estimated 40,000 persons die each year from pneumococcal infections (2). Since 1983, 23-valent pneumococcal polysaccharide vaccines have been licensed in the United States (2) and are 56%–57% effective in preventing invasive pneumococcal disease (3). However, the 1993 National Health Interview Survey documented that ≤28% of persons in high-risk categories, including all persons aged ≥65 years, reported ever having received the vaccine (4). During 1993–1994, VHA Inc. (Irving, Texas)—a national health-care alliance serving approximately 1200 health-care organizations nationwide (including 21% of all community hospitals in the United States)—initiated efforts to improve pneumococcal vaccine delivery to and coverage

Pneumococcal Vaccination Rates — Continued

among patients at increased risk for complications of pneumococcal infection. This report summarizes the program and an evaluation of its effectiveness in increasing vaccine coverage.

In August 1993, VHA conducted a telephone survey of a national probability sample about pneumonia and its prevention.* The survey indicated that, among participants aged ≥65 years, 32% had read or heard about pneumococcal pneumonia, 27% were aware of pneumococcal vaccine, and 15% (or a member of their family) had ever been vaccinated. In comparison, the year 2000 national health objective for pneumococcal vaccine coverage for persons aged ≥65 years is 60% (objective 20.11) (5). Based on these findings and recommendations from advisory councils of member health-care organizations, VHA developed the nationwide Pneumonia Pnockout[®] campaign. The goals of this program were to educate elderly and other high-risk persons about pneumococcal pneumonia and the need for pneumococcal vaccination and to encourage partnerships between VHA health-care organizations and public health departments, senior citizen centers, and community organizations. Overall, 355 (37%) of the 953 member organizations of VHA volunteered to participate.

The campaign was conducted October 25–November 19, 1993, and targeted persons aged ≥65 years and those with high-risk conditions for pneumococcal disease as defined by the Advisory Committee on Immunization Practices (2). VHA provided each participating organization with a media kit containing public service announcements, sample press releases, and a national toll-free telephone number for patients listing VHA hospitals offering pneumococcal vaccination.

The campaign was evaluated by VHA in January 1994. Based on information provided by 221 (65%) of the 355 organizations, 82,562 persons received pneumococcal vaccine during the 4-week campaign. Of these, 21% were vaccinated in unspecified locations, 19% in hospital outpatient services, 18% in family practice centers or physicians' offices, 15% in public health departments, 15% in community sites, and 12% in other settings (e.g., hospital inpatient services [3%], long-term-care facilities [2%], and other sites [7%]). Examples of problems encountered during the program included the need for physicians' orders to vaccinate Medicare patients; hospital regulations requiring patient registration before administration of vaccine; assurance of adequate vaccine supplies; reluctance of physicians to participate; and the need to educate health-care providers and patients about vaccine benefits, safety, and effectiveness. Educational materials were provided to an estimated 288,000 persons, including the general public (58%), health-care staff (17%), physicians (4%), long-term-care staff (1%), and others (19%).

Evaluation of the impact of the campaign also included a follow-up survey in December 1993 that replicated the methods of the baseline survey.* Compared with August 1993, there were statistically significant increases in the prevalences of awareness of pneumococcal pneumonia (overall: from 26% to 31%; among persons aged ≥65 years: from 32% to 40%) and pneumococcal vaccine (overall: from 16% to 24%; among persons aged ≥65 years: from 27% to 44%), and of persons aged ≥65 years reporting that they or a family member had been vaccinated (from 15% to 22%).

In September 1994, a year-round campaign was initiated to increase efforts of participating organizations to integrate pneumococcal vaccination into daily patient-care delivery systems; 216 organizations participated, of which 71 (33%) were new. Of the

^{*}Prevalence estimates have a standard error of ±2.2%.

Pneumococcal Vaccination Rates — Continued

216 organizations, 93 (43%) submitted preliminary evaluations of the 1994 program in January 1995. Based on this evaluation, 56 (60%) provided 36,450 doses of pneumococcal vaccine. An estimated 60% of doses were given in collaboration with public health departments and other community organizations, compared with 30% in 1993. Other patient-care settings (e.g., physician offices, outpatient and inpatient services, and home health care) accounted for 30% of vaccine doses delivered.

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Editorial Note: Based on national surveys, during 1989-1993, vaccination levels among adults increased substantially; for example, pneumococcal vaccination among persons aged ≥65 years increased from 15% to 28% (4). However, these levels remain below the year 2000 national health objective of 60% vaccination levels for high-risk persons (objective 20.11) (5). Previously documented barriers to achieving high vaccination levels among adults include 1) missed opportunities to vaccinate adults during contacts with health-care providers in offices, outpatient clinics, and hospitals (6); 2) lack of vaccine-delivery systems in the public and private sectors that can reach adults in different settings (e.g., health-care, workplace, and college or university settings) (6); 3) patient and provider fears concerning adverse events following vaccination (7,8); and 4) lack of awareness among both patients and providers of the importance of vaccine-preventable diseases in adults (6). Two of the barriers identified during the VHA campaign are now being addressed: first, the Health Care Financing Administration has approved a regulation that enables the use of standing orders (rather than requiring a physician's presence) to administer pneumococcal vaccine to Medicare patients, and second, vaccine companies have initiated efforts to assure adequate supplies of pneumococcal vaccine. The number of VHA organizations participating in the campaign may increase by overcoming these barriers and others that may have limited participation (e.g., member agency interest and awareness of the problem in their communities and resources to address the problem).

Previous efforts to increase vaccination coverage levels among adults have involved collaborations between public and private health-care providers. For example, the Medicare Influenza Vaccine Demonstration and the Hawaii Pneumococcal Disease Initiative (9,10) both employed public-private partnerships to substantially increase vaccine delivery and improve vaccination levels among elderly persons. In comparison, the VHA campaign entailed minimal collaboration with public agencies during the development stage, although public health departments assisted with implementation. Important elements of the VHA campaign included collection of information about the target population and education of both the target population and health-care providers. More than 80% of the 1994 participants are continuing their efforts in 1995. Replication of the VHA campaign and similar efforts, in conjunction with public-sector support, will assist in achieving national health objectives for 1) reducing epidemic-related pneumonia and influenza-related deaths among persons aged ≥65 years; and 2) increasing pneumococcal and influenza vaccination levels among noninstitutionalized, high-risk populations to at least 60% (5).

Pneumococcal Vaccination Rates — Continued

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Increasing Influenza Vaccination Rates for Medicare Beneficiaries — Montana and Wyoming, 1994

Approximately 20,000 influenza-associated deaths occurred during each of 10 different epidemics in the United States during 1972–1991; most (>90%) of the deaths attributed to pneumonia and influenza occurred among persons aged ≥65 years (1). Although Medicare has provided reimbursement for influenza vaccination since 1993, the Health Care Financing Administration (HCFA) received billing claims for influenza vaccination for the 1993–94 and 1994–95 influenza seasons for only 35% and 38% of Medicare beneficiaries, respectively (2) (HCFA, unpublished data, 1995). This report describes the impact of an intervention project in September 1994 in which individual Medicare beneficiaries aged ≥65 years in Montana and Wyoming were contacted and encouraged to receive influenza vaccination.

The project was conducted by the Montana-Wyoming Foundation for Medical Care (MWFMC) in collaboration with HCFA. During 1994, the numbers of persons who were Medicare beneficiaries in Montana and in Wyoming were 130,000 and 60,000, respectively. The two states were divided into 40 geographic regions defined by zip code aggregates (24 in Montana, 16 in Wyoming); in each state, four regions were randomly selected as intervention sites. During September 23–30, MWFMC sent individual letters and an informational brochure to Medicare beneficiaries with mailing addresses in the eight intervention regions: in two regions (total population: 19,850) in each state, beneficiaries received a personalized letter from the MWFMC medical director encouraging them to obtain vaccination, and beneficiaries in the other two regions (total population: 21,250) in each state received a form letter from the MWFMC encouraging them to obtain vaccination. In addition, during October

Influenza Vaccination Rates — Continued

1994, public and private organizations, including HCFA, implemented measures to increase influenza vaccination coverage in all regions, including public service announcements and notices to health-care providers.

Vaccination rates in the intervention regions were compared with those in the remaining regions for October 1–December 31 in both 1993 and 1994 using influenza vaccination claims submitted to HCFA. Approximately 90% of influenza vaccination claims submitted to HCFA are for vaccinations provided from October 1 through December 31. Medicare pays for influenza vaccination for beneficiaries enrolled in Part B. This analysis was restricted to those who were alive and continuously enrolled in Part B during the study period; approximately 96% of persons aged ≥65 years in the United States are enrolled in Medicare Part B. A beneficiary was considered to have received an influenza vaccination if at least one bill for either the influenza vaccine or administration of the vaccine was submitted for the study period. A logistic regression model was used to examine the relation between receipt of both a letter and an influenza vaccination; EGRET software was used to adjust for confounding variables and conduct statistical testing.

From 1993 through 1994, influenza vaccination rates increased in all regions of Montana and Wyoming regardless of intervention status. However, overall increases in influenza vaccination rates were greater in intervention regions across both states than in nonintervention regions by 6.1 percentage points (95% confidence interval [CI]=5.5-6.7). In Montana, the influenza vaccination rate for beneficiaries who received letters increased 8.7 percentage points (from 41.2% to 49.9% among those who received a personal letter) and 6.5 percentage points (from 46.0% to 52.5% among those who received a form letter) compared with 4.4 percentage points (from 42.3% to 46.7%) for beneficiaries who did not receive letters. The crude rate comparisons were statistically significant (personal letter versus no letter=1.1 [95% Cl=1.1-1.2] and form letter versus no letter=1.3 [95% Cl=1.2-1.3]). In Wyoming, the rate increased 18.9 percentage points (from 23.8% to 42.7% among those who received a personal letter) and 19.9 percentage points (from 20.5% to 40.4% among those who received a form letter) for those receiving letters compared with 11.5 percentage points (from 21.6% to 33.1%) for beneficiaries not receiving letters. The crude rate comparisons were statistically significant (personal letter versus no letter=1.5 [95% Cl=1.4-1.6] and form letter versus no letter=1.4 [95% Cl=1.3-1.4]).

The strongest predictor for a billing claim for vaccination in 1994 was a claim for vaccination in 1993 (odds ratio [OR]=8.1 [95% Cl=7.9–8.4] for beneficiaries vaccinated in 1993 versus those not vaccinated in 1993). In addition, after adjusting for age, sex, and 1993 vaccination status, beneficiaries who received a letter were significantly more likely to receive an influenza vaccination than beneficiaries who did not (OR=1.3; 95% Cl=1.3–1.4). Beneficiaries who received a letter from MWFMC were more likely to have a claim for vaccination than those who did not receive a letter both among persons who were vaccinated in 1993 (OR=1.2; 95% Cl=1.2–1.3) and those who were not vaccinated in 1993 (OR=1.4; 95% Cl=1.3 to 1.4). The likelihood of vaccination was similar for persons who received a personal letter and for those who received a form letter. Age was also an important predictor for a billing claim for vaccination in 1994 (beneficiaries aged ≥70 years were more likely than those aged 65–69 years to have a billing claim).

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Editorial Note: Influenza vaccination levels among elderly persons in the United States increased from 1989 (33%) through 1993 (52%) (3), probably reflecting greater acceptance of preventive medical services by practitioners and patients and increased delivery of vaccine by health-care providers and sources other than physicians (e.g., visiting-nurse and home-health agencies) (3). In addition, the findings in this report suggest that the initiation of Medicare reimbursement for influenza vaccination in 1993 may have contributed to increased rates in Montana and Wyoming, although this intervention also may have increased submission of Medicare claims for persons who had already been receiving influenza vaccine. The intervention project also indicated that prior influenza vaccination, documented by Medicare claims data, was the strongest predictor of current vaccination—a finding consistent with previous reports (4). In addition, the increase in vaccination rates among those who received a letter is similar to the effect of the Medicare Influenza Vaccine Demonstration program in 1990 and 1991, during which a letter to all beneficiaries in parts of 10 states was the most important motivator for vaccination (5).

The Montana and Wyoming intervention resulted in a statistically significant, although modest, improvement in vaccination levels. Other client-oriented interventions (e.g., letter or postcard reminders) have improved influenza vaccination levels by an average of 12% (6). Provider- (e.g., chart reminders and reminders directly to physicians) and system-oriented interventions (e.g., standing orders to nurses) also have been effective in increasing influenza vaccination levels (18% and 39%, respectively) for patients who could be directly identified in providers' health record systems (6). In addition, combinations of client and provider strategies have been documented to be more effective than client-based strategies alone (6). Future interventions to improve influenza vaccination levels in the Medicare population could employ a combination of strategies directed toward patients, providers, and systems to assure more effective means of providing influenza vaccination are used.

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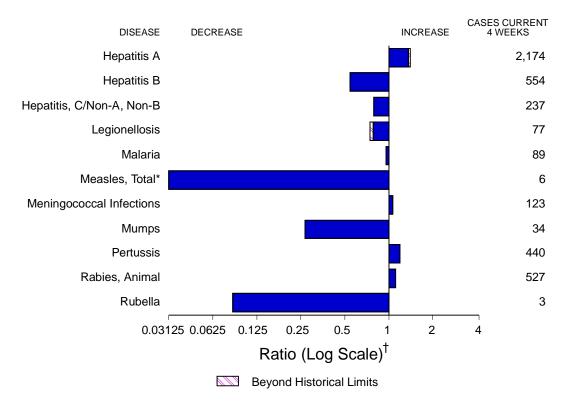
Knowledge, Attitudes, and Practices of Physicians Regarding Urinary Incontinence in Persons Aged ≥65 Years — Massachusetts and Oklahoma, 1993

Urinary incontinence (UI)—the involuntary loss of urine sufficient to be a problem for the patient or caregivers (1)—affects an estimated 15%–30% of persons aged ≥60 years in the United States and is a major cause of admittance to nursing homes (2). UI may be associated with a variety of medical (e.g., rashes, skin infections, pressure sores, urinary tract infections, and falls) and psychosocial problems (e.g., depression, embarrassment, restricted social interaction, reduced activities outside the home, reduced sexual activity, and sleep disturbances) (2–5). Despite the dissemination of clinical practice guidelines for UI by the Agency for Health Care Policy and Research (AHCPR) (1), many physicians do not know how to diagnose or treat UI. Beginning in 1992, CDC and AHCPR funded demonstration projects in Massachusetts and Oklahoma to educate the public, patients, and health-care professionals about UI. In both projects, physicians were assessed regarding baseline attitudes toward UI, knowledge of the causes and treatment of UI, preparedness to evaluate and treat UI, and current practices regarding UI. This report summarizes findings from the two projects during 1993.

Massachusetts. During March–May 1993, the Massachusetts Department of Public Health conducted a telephone survey of 350 eligible physicians who were sampled randomly in Essex and Norfolk counties; 163 (47%) participated. Of the 163 participants, 124 (76%) were primary-care physicians; 23 (14%), gynecologists; and 16 (10%), urologists. Overall, 34% reported that they had asked at least three fourths of their elderly patients about UI during the previous month; urologists (75%) and gynecologists (74%) were more likely to report asking than primary-care physicians (21%) (p<0.01). Seventy-two percent of physicians indicated that <10% of their patients aged ≥65 years mentioned experiencing UI, and 68% that <10% of patients aged ≥65 years who were asked about UI reported having this condition. The most common reasons that prevented physicians from asking patients about UI included lack of time (36%), lack of available and effective treatments (28%), and patient embarrassment (26%). A total of 73% underestimated the correct proportion (two thirds) of elderly patients with UI who could benefit from therapy. Most urologists (97%) and gynecologists (91%) and 46% of primary-care physicians rated themselves as prepared to treat UI.

Oklahoma. During May–September 1993, the Oklahoma State Department of Health mailed a survey to 194 eligible physicians who were randomly selected in four counties (Canadian, Cleveland, Logan, and Oklahoma) in the vicinity of Oklahoma City; 155 (80%) participated. Of the 155 participants, 120 (78%) were primary-care physicians; 26 (15%), gynecologists; and nine (6%), urologists. Overall, one third (33%) reported always asking all new patients about UI; urologists (89%) and gynecologists (58%) were more likely than primary-care physicians (23%) to always ask (p<0.01). Of all respondents, 16% reported they were "fully prepared" and 13% reported they were "poorly prepared" to evaluate UI; 62% of the primary-care physicians rated themselves as "somewhat prepared" or "poorly prepared" to evaluate UI. Nearly one third (32%) of respondents reported incorrectly that elderly persons with chronic UI were unlikely to improve. Most (90%) believed that physicians should be more active in asking the patient about problems with bladder control, and 78% believed that physi-

FIGURE I. Notifiable disease reports, comparison of 4-week totals ending October 7, 1995, with historical data — United States



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

TABLE I. Summary — cases of specified notifiable diseases, United States, cumulative, week ending October 7, 1995 (40th Week)

	Cum. 1995		Cum. 1995
Anthrax Brucellosis Cholera Congenital rubella syndrome Diphtheria Haemophilus influenzae* Hansen Disease Plague Poliomyelitis, Paralytic	71 13 5 - 893 106 6	Psittacosis Rabies, human Rocky Mountain Spotted Fever Syphilis, congenital, age < 1 year [†] Tetanus Toxic shock syndrome Trichinosis Typhoid fever	51 1 465 280 23 143 25 247

[†]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.

^{*}Of 874 cases of known age, 208 (24%) were reported among children less than 5 years of age.

†Updated quarterly from reports to the Division of STD Prevention, National Center for Prevention Services. This total through second quarter 1995.

^{-:} no reported cases

TABLE II. Cases of selected notifiable diseases, United States, weeks ending October 7, 1995, and October 8, 1994 (40th Week)

	Hepatitis (Viral), by type										
Reporting Area	AIDS*	Gono	rrhea	,	١	В	3	C/NA	A,NB	Legior	ellosis
	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	54,704	262,617	310,023	20,900	18,663	7,475	8,802	3,260	3,183	953	1,208
NEW ENGLAND Maine N.H. Vt.	2,653 81 77 30	4,396 66 91 47	6,485 71 85 24	226 23 8 5	231 21 16 9	165 7 18 1	265 11 22 6	93 - 12 1	116 - 9 12	28 5 1	64 4 -
Mass. R.I. Conn.	1,137 192 1,136	2,211 406 1,575	2,455 364 3,486	99 26 65	87 20 78	65 8 66	151 7 68	73 7 -	75 20	18 4 N	44 16 N
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	14,696 1,736 7,624 3,575 1,761	25,506 3,846 8,598 3,326 9,736	34,749 8,044 13,353 3,944 9,408	1,237 334 587 144 172	1,301 446 494 230 131	927 302 290 190 145	1,134 297 251 296 290	320 175 1 108 36	366 175 1 159 31	153 40 4 21 88	189 46 6 37 100
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	4,122 852 429 1,736 825 280	57,890 16,800 6,182 16,431 14,033 4,444	62,464 16,784 6,737 19,040 13,893 6,010	2,226 1,451 132 217 290 136	1,857 679 304 464 229 181	721 87 179 94 318 43	914 132 164 240 302 76	220 9 6 33 172	265 19 8 72 166	249 125 59 13 25 27	347 159 36 31 67 54
W.N. CENTRAL Minn. Iowa Mo. N. Dak.	1,266 285 71 564 6	15,079 2,238 1,191 8,704 20	17,177 2,463 1,103 9,474 33	1,447 146 54 1,035 23	950 184 49 483 5	470 45 42 319 4	517 48 24 390	99 2 13 57 8	69 14 9 18 1	94 6 20 44 4	82 2 28 29 4
S. Dak. Nebr. Kans.	15 84 241	131 697 2,098	169 1,059 2,876	49 34 106	31 107 91	2 22 36	2 24 29	1 6 12	11 16	3 10 7	1 13 5
S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla.	14,155 241 2,250 827 1,082 86 816 766 1,784 6,303	76,711 1,723 7,471 3,594 8,085 534 18,785 9,333 11,257 15,929	83,039 1,496 14,501 5,582 10,282 623 21,590 10,336 U 18,629	992 7 169 20 163 17 89 40 55 432	958 21 137 17 134 15 109 32 26 467	1,083 2 206 15 91 41 224 39 63 402	1,614 12 277 40 102 33 225 25 516 384	258 1 4 - 14 43 46 17 15 118	339 1 17 1 20 24 51 8 173	171 2 27 4 17 4 31 31 23 32	291 31 66 6 8 3 20 12 101 44
E.S. CENTRAL Ky. Tenn. Ala. Miss.	1,763 221 709 484 349	32,038 3,819 10,503 12,852 4,864	35,986 3,777 11,697 12,079 8,433	1,225 36 975 69 145	480 127 213 78 62	632 54 493 85	899 66 772 61	774 22 750 2	731 24 692 15	43 10 24 6 3	71 8 36 12 15
W.S. CENTRAL Ark. La. Okla. Tex.	4,691 209 785 206 3,491	23,834 2,671 8,662 1,496 11,005	36,759 5,232 9,396 3,742 18,389	3,272 343 100 660 2,169	2,423 151 122 246 1,904	1,304 36 152 376 740	990 22 137 113 718	520 4 140 323 53	256 7 142 48 59	13 1 3 3 6	35 6 12 11 6
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz. Utah Nev.	1,716 17 38 12 523 137 545 112 332	6,660 55 96 42 2,241 780 2,532 131 783	7,690 72 69 66 2,696 760 2,475 199 1,353	3,065 102 244 90 424 637 889 555 124	3,690 18 275 23 402 880 1,475 427 190	603 19 65 17 95 233 92 54 28	516 18 67 22 78 165 57 62 47	347 12 41 141 54 39 37 9	353 10 64 128 58 44 20 15	89 4 2 8 33 4 9 14	73 14 1 4 15 3 9 6 21
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	9,642 717 347 8,328 60 190	20,503 2,122 224 17,162 551 444	25,674 2,275 775 21,335 716 573	7,210 628 1,543 4,874 41 124	6,773 870 784 4,900 177 42	1,570 141 62 1,345 9	1,953 184 121 1,612 12 24	629 156 29 402 1 41	688 201 35 447 - 5	113 20 - 88 - 5	56 10 - 44 - 2
Guam P.R. V.I. Amer. Samoa	1,925 27 -	65 459 6 24	99 390 25 25	5 81 - 6	22 52 3 8	1 455 2	4 282 7	182 - -	139 1 -	1 - - -	1 - - -
C.N.M.I.	-	23	41	15	6	7	1	-	-	-	-

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, National Center for Prevention Services, last update September 28, 1995.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending October 7, 1995, and October 8, 1994 (40th Week)

							Measle	es (Rube	eola)		Meningococcal			
Reporting Area		me ease	Mal	aria	Indig	enous	Impo	orted*	To	tal		ococcal tions	Mu	mps
	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	1995	Cum. 1995	1995	Cum. 1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	6,486	9,549	928	826	2	243	-	24	267	863	2,310	2,134	614	1,123
NEW ENGLAND	1,582	2,230	37	60	-	6	-	2	8	27	106	100	10	19
Maine N.H.	25 19	18 24	5 1	4 3	-	-	-	-	-	5 1	8 20	19 8	4 1	3 4
Vt.	8	14 146	1 12	3	-	- 1	-	- 1	2	3 7	8	2 44	2	3
Mass. R.I.	149 285	323	4	27 8	-	5	-	-	5	7	38	-	1	2
Conn.	1,096	1,705	14	15	-	-	-	1	1	4	32	27	2	7
MID. ATLANTIC Upstate N.Y.	3,993 2,057	5,737 3,634	252 52	162 44	-	7 1	-	5	12 1	212 17	273 84	229 75	93 24	93 27
N.Y. City	158	18	133	59	-	2	-	3	5	14	38	28	13	7
N.J. Pa.	837 941	1,139 946	50 17	35 24	-	4	-	2	6	173 8	73 78	51 75	12 44	13 46
E.N. CENTRAL	65	469	86	91	_	7	_	3	10	102	317	316	109	193
Ohio	43 14	36 15	12 14	14 12	-	1	-	-	1	17 1	93	92 41	36 4	51 7
Ind. III.	3	23	32	40	-	-	-	2	2	56	59 71	103	31	89
Mich. Wis.	5	5 390	15 13	22 3	-	4 2	-	1	5 2	25 3	57 37	46 34	38	35 11
W.N. CENTRAL	193	246	22	38	_	2	_	_	2	170	154	136	30	60
Minn.	129	129	4	11	-	-	-	-	-	-	25	12	2	4
lowa Mo.	11 34	13 91	3 6	5 12	-	1	-	-	1	7 160	27 62	18 66	22	13 38
N. Dak.	-	-	1	1	-	-	-	-	-	-	1	1	1	4
S. Dak. Nebr.	- 1	3	2	4	-	-	-	-	-	2	5 14	8 11	4	- 1
Kans.	18	10	3	5	-	1	-	-	1	1	20	20	1	-
S. ATLANTIC Del.	432 7	657 101	201 1	166 3	1	11	-	1	12	64	418 6	310 5	89	162
Md.	267	212	55	60	-	-	-	1	1	4	31	27	20	47
D.C. Va.	1 47	6 117	15 45	12 23	-	-	-	-	-	3	3 53	4 56	20	38
W. Va.	22	18	2	-	-	-	-	-	-	37	8	12	-	3
N.C. S.C.	48 16	71 7	15 1	9 4	-	-	-	-	-	3	67 51	44 21	16 9	35 7
Ga.	12	110	26	29	-	2	-	-	2	3	82	66	8	9
Fla.	12	15	41	26	1	9	-	-	9	14	117	75 151	16	23
E.S. CENTRAL Ky.	41 9	37 21	20 2	29 10	-	-	-	_	-	28	148 47	151 34	13	18 -
Tenn. Ala.	20 7	10 6	7 8	9 9	-	-	-	-	-	28	37 34	28 59	- 4	6 5
Miss.	5	-	3	1	-	-	-	-	-	-	30	30	9	7
W.S. CENTRAL	90	99	40	38	1	22	-	3	25	16	287	250	40	201
Ark. La.	5 4	8 1	3 5	3 6	-	2 17	-	1	2 18	1 1	22 41	38 31	3 10	5 23
Okla.	39	56	1	6	-	-	-	-	-	-	28	24	-	23
Tex.	42 7	34	31	23	1	3	-	2	5	14	196	157	27	150
MOUNTAIN Mont.	-	13	48 3	25 -	-	67 -	-	1 -	68 -	164 -	158 2	141 6	25 1	134
ldaho Wyo.	3	3	1	2 1	-	-	-	-	-	1	7 7	15 6	3	7 2
Colo.	-	1	22	11	-	26	-	-	26	19	42	28	2	4
N. Mex. Ariz.	1	4	5 7	3 2	-	30 10	-	1	31 10	- 1	31 48	13 48	N 2	N 94
Utah	1	1	6	4	-	-	-	-	-	134	14	18	11	14
Nev.	2	1	4	2	-	1	-	-	1	9	7	7	6	13
PACIFIC Wash.	83 10	61 1	222 18	217 24	-	121 16	-	9 4	130 20	80 3	449 75	501 75	205 10	243 14
Oreg.	4	6	10	14	-	-	-	1	1	2	70	109	N	N
Calif. Alaska	69 -	54 -	182 2	163 2	-	105	-	3	108	61 10	292 8	310 2	176 13	210 3
Hawaii	-	-	10	14	-	-	-	1	1	4	4	5	6	16
Guam P.R.	-	-	- 1	- 4	U	- 11	U	-	- 11	228 11	3 23	- 7	3 2	6 2
V.I.	-	-	-	-	Ū	-	U	-	-	-	-	-	2	4
Amer. Samoa C.N.M.I.	-	-	1	- 1	Ū	-	Ū	-	-	29	-	-	-	2 2
O.1 4.141.1.	-		ı	- 1	J		J			23	-			

^{*}For imported measles, cases include only those resulting from importation from other countries.

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

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending October 7, 1995, and October 8, 1994 (40th Week)

Reporting Area		Pertussis			Rubella		(Prima	Syphilis (Primary & Secondary)		ulosis	Rab Ani	
	1995	Cum. 1995	Cum. 1994	1995	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994	Cum. 1995	Cum. 1994
UNITED STATES	78	2,938	3,001	-	117	208	11,384	16,364	14,974	16,764	5,443	5,915
NEW ENGLAND	10	391	347	-	34	128	131	172	389	386	1,225	1,456
Maine N.H.	1 7	28 39	15 66	-	1 1	-	2 1	4 4	12 15	23 13	45 123	123
Vt.	-	60	40	-	-	-	-	-	3	6	143	111
Mass. R.I.	2	240 2	190 5	-	7	124 2	48 3	75 12	215 38	198 35	365 269	553 40
Conn.	-	22	31	-	25	2	77	77	106	111	280	629
MID. ATLANTIC	2	252	473	-	12	6	628	1,093	3,124	3,462	1,008	1,556
Upstate N.Y. N.Y. City	2	128 21	196 93	-	4 7	5	43 287	143 491	387 1,664	434 2,013	374	1,153
N.J.	-	13	13	-	1	1	129	172	595	596	278	217
Pa.	-	90	171	-	-	-	169	287	478	419	356	186
E.N. CENTRAL	6 4	275 115	444	-	4	9	2,000	2,417 918	1,483	1,591	70 10	53 4
Ohio Ind.	-	113	121 50	-	-	-	672 214	197	207 176	271 145	12	12
III.	-	67	89	-	1	1	752	818	737	791	3	17
Mich. Wis.	2	62 12	48 136	-	3	8 -	228 134	231 253	308 55	338 46	37 8	12 8
W.N. CENTRAL	31	212	144	_	-	2	608	955	454	439	263	171
Minn.	30	118	51	-	-	-	34	37	103	101	19	14
lowa Mo.	-	1 43	17 39	-	-	2	37 502	49 804	48 179	46 194	88 19	70 19
N. Dak.	-	8	4	-	-	-	-	1	3	8	24	10
S. Dak. Nebr.	1	11 9	15 8	-	-	-	9	1 11	20 20	21 16	72 5	30
Kans.	-	22	10	-	-	-	26	52	81	53	36	28
S. ATLANTIC	6	284	269	-	26	15	2,934	4,278	2,590	3,005	1,712	1,576
Del. Md.	-	10 28	2 58	-	-	-	14 137	22 237	42 241	34 252	74 265	47 436
D.C.	-	5	7	-	-	-	87	179	85	96	11	2
Va. W. Va.	-	15 -	30 4	-	-	-	476 9	635 8	202 57	255 61	340 94	316 61
N.C.	-	110	58	-	1	-	886	1,318	335	374	377	131
S.C. Ga.	2	22 26	13 24	-	1 1	2	456 572	630 657	247 323	287 533	103 210	146 302
Fla.	4	68	73	-	23	13	297	592	1,058	1,113	238	135
E.S. CENTRAL	3	256	119	-	-	-	2,970	2,996	1,151	1,156	228	158
Ky. Tenn.	3 -	14 204	58 18	-	-	-	161 674	156 827	235 294	247 378	23 72	20 34
Ala.	-	35	31	-		-	515	522	323	314	124	100
Miss.	-	3	12	N	N	N	1,620	1,491	299	217	9	4
W.S. CENTRAL Ark.	-	231 28	151 22	-	7	13 -	1,440 82	3,502 388	1,839 117	2,116 204	527 21	541 25
La.	-	15	10	-	-	-	788	1,383	6	11	25	55
Okla. Tex.	-	16 172	22 97	-	- 7	4 9	54 516	123 1,608	146 1,570	193 1,708	31 450	31 430
MOUNTAIN	10	431	384	_	5	5	200	207	474	423	148	124
Mont. Idaho	-	3 81	6 45	-	-	-	4	3 1	10 12	9 11	41 3	15 3
Wyo.	-	1	-	-	1	-	-	-	3	7	22	17
Colo. N. Mex.	7 3	84 89	186 20	-	-	-	98 33	107 18	37 64	51 43	9 5	11 6
Ariz.	-	149	97	-	3	-	33	39	234	170	45	52
Utah Nev.	-	19 5	28 2	-	1	4 1	4 28	11 28	31 83	38 94	15 8	12 8
PACIFIC	10	606	670	_	29	30	473	744	3,470	4,186	262	280
Wash.	4	213	96	-	2	-	12	29	189	208	7	15
Oreg. Calif.	2	29 319	86 473	-	1 23	4 22	7 453	31 678	33 3,057	90 3,645	251	10 222
Alaska	-	-	-	-	-	-	455	3	59	52	4	33
Hawaii	4	45	15	-	3	4	-	3	132	191	-	-
Guam P.R.	U	1 12	2 2	U	-	1	8 237	3 246	35 195	69 150	44	- 67
V.I.	Ū	-	-	U	-	-	2	25	-	-	-	-
Amer. Samoa C.N.M.I.	Ū	-	1 -	Ū	-	-	4	1 1	4 13	4 25	-	-

U: Unavailable -: no reported cases

TABLE III. Deaths in 121 U.S. cities,* week ending October 7, 1995 (40th Week)

		All Cau	ıses, By	/ Age (Y	ears)		P&l [†]			All Cau	ises, By	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 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.	625 173 64 25 15 15 47 26 20 40 58 4 36 29 76 2,426 50 25 109 26	449 125 46 19 14 25 18 8 20 26 45 3 22 55 1,569 34 22 27 79	86 - 95 1 - 59 1 8 5 13 469 5 17 8	59 15 10 - 12 3 1 1 5 2 - 3 2 5 280 7 2	10 1 1 1 1 3 1 1 - 1 68 2 2	8 3 	39 6 36 6 1 2 26 1 32 1 130 5	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.	1,242 153 169 92 109 104 59 87 52 52 52 164 191 10 668 69 67 91 92 164 47	781 96 91 61 81 60 38 54 39 31 113 109 8 40 45 41 62 54 54 113	254 31 41 26 16 23 9 18 6 10 32 41 1 145 17 16 20 20 10	136 20 29 1 8 16 3 10 6 5 14 24 - 7 7 2 8 11 22 3	43 4 6 3 3 3 5 2 2 12 2 3 2 2 3 2 9 2	27 2 2 1 1 2 6 - 1 4 3 5 - 29 1 5 2 5 12 1	83 7 15 11 9 1 3 4 8 2 15 8 - 4 5 2 4 12 8 12 12 12 13
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. Yonkers, N.Y. E.N. CENTRAL Akron, Ohio Canton, Ohio Chicago, Ill. Cincinnati, Ohio	15 416 416 1,311 399 47 166 103 22 32 83 34 19 0 2,059 42 21 413 144	6 35 21 849 25 U 240 29 13 78 78 16 53 16 13 U 1,361 28 19 234 98	5 7 248 19 U 90 111 3 16 12 5 U 390 7 - 96	5 4 164 11 U 45 4 10 - 2 6 6 1 U 187 5 1 5 1	26 33 U 20 2 2 - 4 2 - 2 - U 70 1 1 1 19 6	2 24 U 3 1 - - 6 - U 50 1 2 3	20 60 4 21 4 2 9 1 1 6 2 1 1 5 4 8 8	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. MOUNTAIN Albuquerque, N.M. Colo. Springs, Colo Denver, Colo. Las Vegas, Nev.	174 58 77 331 78 80 187 61 108 793 91 . 50 85 127	10 62 829 46 31 35 111 38 51 174 49 44 126 46 78 510 56 34 48 88	5 36 273 13 10 18 32 8 10 79 18 22 32 8 23 142 18 9 14 26	3 14 163 15 7 23 8 11 52 6 10 23 3 2 82 13 5 9 8	2 2 46 1 4 · 5 2 2 9 3 1 36 3 2 4 3 3 1	3 39 3 4 6 3 2 3 7 2 4 1 4 22 1 10 2	7 76 3 2 2 2 3 4 25 5 18 7 5 5 10 6 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10
Cleveland, Ohio Columbus, Ohio Dayton, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Micl Indianapolis, Ind. Madison, 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, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	174 158 124 220 37 48 162 73 133 41 42 46 102 U 838 90 33 40 80 82 82 83 83 83 83 840 82 82 83 83 83 83 83 83 83 83 83 83 83 83 83	107 106 95 131 24 30 46 109 56 56 29 28 38 78 U 602 64 43 25 145 64 95 66	34 37 20 46 9 10 1 8 35 9 22 9 5 4 12 U 125 14 12 14 13 27 24 7	18 11 8 30 2 4 2 1 13 5 4 2 6 4 9 9 9 5 7 7 3 2 5 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7311912532 · 513 · 1U 94 · 13165522	8 1 1 - 4 1 1 5 3 3 3 3 7 7 2 U U 13 1 1 - 1 1 1 1 1	1350 - 21569143014U 2262 - 3104 - 33	Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Diego, Calif. San Francisco, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash. Tacoma, Wash. TOTAL	144 1,269 23 64 U 78 74 U 29 116 154 162	22 79 18 62 103 847 15 38 U 36 51 U 25 79 109 109 U 98 32 62 7,348	2 29 1 24 19 222 6 13 U 12 12 23 29 31 26 U 18 10 16 2,119	3 23 9 10 124 8 U 19 8 U 19 13 16 21 11 U 10 3 5 1,158	1 6 - 8 9 46 - 2 U 9 1 U - 5 6 5 3 9 U 3 1 2 3 71	3 30 1 3 3 0 1 3 8 1 1 4 0 2 2 2 1 1 2 5 7	3 15 10 4 117 5 5 4 8 8 4 4 18 22 19 13 0 4 6 10 734

^{*}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 -: no reported cases

Urinary Incontinence — Continued

cians should emphasize behavioral treatments (e.g., bladder training and pelvic muscle exercises) for UI.

Reported by: L Branch, PhD, ABT Associates Inc; N Resnick, MD, C DuBeau, MD, Harvard Medical School; A Balsam, PhD, C Bottum, MPH, D Siegal, MPA, Massachusetts Dept of Public Health, Boston. A Yerkes, MPH, Oklahoma State Dept of Health; S McFall, PhD, College of Public Health, Univ of Oklahoma Health Sciences Center, Oklahoma City. Health Interventions and Translation Br, and Aging Studies Br, Div of Chronic Disease Control and Community Intervention, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: In addition to its clinical effects, UI results in substantial health-care costs: in 1987, the annual direct costs for care of patients with UI were estimated to exceed \$10.3 billion (2). Although existing therapies can improve two thirds of UI cases, the findings in this report suggest that most primary-care physicians neither routinely ask their elderly patients about UI nor believe they are adequately prepared to evaluate and treat UI. Previous studies have indicated that approximately half of patients with UI reported their physicians had never asked about UI, treated the condition, or referred them for treatment (6–9).

One of the national health objectives for the year 2000 is to increase to 60% the proportion of primary-care providers (i.e., physicians, physicians' assistants, nurses, and physical and occupational therapists) who routinely evaluate their patients aged ≥65 years for UI (objective 17.17) (10). In both Massachusetts and Oklahoma, interventions were conducted after the surveys to prepare physicians to evaluate and treat UI. In Massachusetts, these interventions included a local conference about UI for urologists and chiefs of gynecology, organization of a series of hospital grand rounds presentations about UI by urologists, and a statewide mailing of program materials and information about the AHCPR guidelines to primary-care physicians. In Oklahoma, some physicians at area hospitals received briefings at department or general medical staff meetings to reinforce the importance of asking patients about UI; in addition, the Oklahoma Geriatric Education Center conducted an education session about treatment options for UI.

The health-care impact of UI is likely to increase because of the changing demographic composition of the U.S. population. As a consequence, clinical providers and public health programs will need to strengthen capacities to prevent UI and to ensure that patients with this condition can receive appropriate treatment. Health-care providers should routinely ask elderly patients about this condition and associated problems, educate patients about noninvasive behavioral interventions for UI, and if necessary, refer patients for appropriate treatment.

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National Breast Cancer Awareness Month — October 1995

October is National Breast Cancer Awareness Month, and October 19 has been designated National Mammography Day. CDC supports breast and cervical cancer early detection efforts through cooperative agreements with state health departments in all 50 states. Through a partnership with CDC, 35 states and nine American Indian tribal organizations offer affordable screening mammograms to low-income women.

Additional information about CDC's Breast and Cervical Cancer Early Detection Program is available from the Division of Cancer Prevention and Control, National Center for Chronic Disease Prevention and Health Promotion, CDC, telephone (770) 488-4226.

Mammography Use — Wisconsin, 1980–1993

In the United States, efforts to reduce mortality from breast cancer focus primarily on secondary prevention (i.e., early detection and treatment). Since 1980, private, public, and voluntary organizations in Wisconsin have promoted screening mammography as a means for reducing the death rate from breast cancer (1,2). To assess the effectiveness of these efforts, the Division of Health, Wisconsin Department of Health and Social Services (DOH), analyzed data from annual statewide surveys of mammography providers during 1989–1993 and data about self-reported mammography use from the Behavioral Risk Factor Surveillance System (BRFSS) during 1987–1993. This report summarizes these analyses and trends in the number of mammograms performed annually in Wisconsin during 1980–1993.

An annual survey of all registered mammography providers in Wisconsin has been conducted since 1989. During 1980–1993, the number of mammography providers ranged from 76 to 236 (Table 1). Survey questionnaires are mailed annually to all mammography providers in conjunction with a mailing of DOH radiation-protection registration materials. The questionnaire asks each facility to estimate the total number of mammograms performed during that year and to provide information about mammography referral and follow-up procedures, fees, and availability of low-cost screening services. The 1989 survey requested estimates of the total number of mam-

Mammography Use — Continued

TABLE 1. Estimated annual number of mammograms — Wisconsin, 1980–1993*

	Mammogra	aphy provider survey	BRFSS†	% Difference (% BRFSS greater than provider survey)				
Year	No. providers	Estimated no. mammograms	Estimated no. women who had a mammogram					
1980	76	31,000	NA⁵	NA				
1981	76	34,000	NA	NA				
1982	83	39,000	NA	NA				
1983	85	50,000	NA	NA				
1984	93	74,000	NA	NA				
1985	126	130,000	NA	NA				
1986	142	188,000	NA	NA				
1987	145	237,000	389,000	64%				
1988	167	276,000	499,000	81%				
1989	183	334,000	499,000	45%				
1990	198	383,000	516,000	35%				
1991	218	455,000	608,000	34%				
1992	228	466,000	638,000	37%				
1993	236	517,000	607,000	17%				

^{*}Based on data from annual mammography provider surveys for 1989–1993 (the 1989 survey requested information for 1980–1989) and the Behavioral Risk Factor Surveillance System (BRFSS) for 1987–1993.

mograms performed during 1980–1989. The response rates for the five surveys conducted during 1989–1993 were 75%, 89%, 90%, 91%, and 91%, respectively. Data were adjusted for nonresponse to provide statewide estimates of the annual number of mammograms performed.

Trends in self-reported mammography use were determined by analyzing data from the BRFSS, which has included questions about mammography use since 1987. The BRFSS is a random-digit-dialed telephone survey of household residents aged ≥18 years that provides population-based surveillance data about selected health behaviors. The total number of mammograms performed in the state each year during 1987–1993 was estimated from the BRFSS by multiplying the adult female population in Wisconsin by the proportion of women who reported having had a mammogram during the preceding 12 months. The number of adult women interviewed in Wisconsin for the annual BRFSS ranged from 673 (in 1990) to 857 (in 1993).

Analyses of the mammography provider surveys (1989–1993) and the BRFSS (1987–1993) indicated steady increases in the number of mammograms performed each year during 1980–1993 (Table 1). Based on the provider survey, the total number of mammograms performed each year increased nearly 17-fold, from 31,000 in 1980 to 517,000 in 1993. Compared with the provider survey, estimates based on the BRFSS were consistently higher, varying from 81% higher in 1988 to 17% higher in 1993. In addition, the number of mammography providers increased 310%, from 76 in 1980 to 236 in 1993. Standard errors for annual BRFSS estimates ranged from $\pm 1.5\%$ to $\pm 1.7\%$. Reported by: P Lantz, PhD, M Bunge, E Cautley, JL Phillips, PL Remington MD, State Chronic Disease Epidemiologist, Div of Health, Wisconsin Dept of Health and Social Svcs. Div of Field Epidemiology, Epidemiology Program Office, CDC.

Editorial Note: The findings in this report document a nearly 17-fold increase in the annual number of mammograms performed in Wisconsin during 1980–1993. Although the estimated number of mammograms performed each year differed

[†]Standard errors for annual BRFSS estimates ranged from ±1.5% to ±1.7%.

[§] Not available.

Mammography Use — Continued

substantially by data source, the trends were similar for both sources. Two important factors probably contributed to the increase in mammography use during this period:

1) the substantial increase in the acceptance and use of screening mammography among physicians during the 1980s (3) and 2) initiation of extensive efforts to educate the public and health-care professionals about national screening mammography guidelines, which were implemented during the late 1980s (4). Other possible contributing factors include the initiation of low-cost mammography screening programs (5) and wider availability of high-quality, low-cost mammography equipment beginning during the early 1980s.

The findings in this report are subject to limitations associated with the two data sources. Although the provider survey is an example of a low-cost, efficient method to characterize trends in mammography use, it does not collect information about sociodemographic variables and may overestimate mammography use because data were based on the number of mammograms performed and some women receive more than one mammogram each year. In addition, the estimates based on the selfreported BRFSS data probably were higher than those from the provider survey for at least three reasons. First, some women who reported having had a mammogram during the previous 12 months probably received the mammogram >12 months previously (6-8). Second, women who participated in the BRFSS may not be representative of the total population of women in Wisconsin because they had telephones, were better educated, or were more likely to have had insurance coverage—factors related to an increased likelihood of having received a mammogram. Third, the BRFSS is a household survey that does not include institutionalized women (e.g., those in long-term-care facilities), who are less likely than noninstitutionalized women to receive mammograms (9).

The findings in this report are being used in Wisconsin to further identify groups of women who underuse mammography screening, develop intervention strategies to increase mammography use, and assess progress toward the year 2000 national health objectives for breast cancer and mammography (objectives 16.11 and 16.16) (10). This approach can be adapted for use by health departments in other states to assess the effectiveness of efforts to promote mammography screening.

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Mammography Use — Continued

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Notice to Readers

Publication of Draft Guideline for Prevention of Intravascular Device-Related Infections

The Hospital Infection Control Practices Advisory Committee and CDC published for public comment the *Draft Guideline for Prevention of Intravascular Device-Related Infections* in the September 27, 1995, *Federal Register.** Copies of the document (stock number 069-001-000-89-1) are available for \$8.00 from the Order and Information Desk, U.S. Government Printing Office, Washington, DC 20402-9329; telephone, (202) 512-1800. The draft document also can be viewed and photocopied at U.S. government depository libraries or other public or academic libraries that receive the *Federal Register*. Comments must be received in writing by October 30, 1995, at CDC, Attention: IV Guideline, Mailstop E-69, 1600 Clifton Road, NE, Atlanta, GA 30333.

Notice to Readers

Update: Availability of Electronic MMWR on Internet

Since January 27, 1995, the *MMWR* series has been available in an electronic format on the Internet (1); current and past copies (since January 15, 1993) in the *MMWR* series are available electronically. To access CDC's Internet file servers, users must have Internet access and software that retrieves files by file transfer protocol (FTP) or software that will access the World Wide Web (WWW). As of May 1, changes have been made in the names of some directories used to access the electronic *MMWR* files and AdobeTM Acrobat^{TM*} Reader software (produced by Adobe, Inc.) required to view the electronic *MMWR* in AdobeTM AcrobatTM portable document format (.pdf). Following are the revised instructions.

Where to Obtain MMWR Through the Internet

Users can receive *MMWR* by connecting to the following servers:

CDC FTP server. Use FTP to connect to CDC's file server *ftp.cdc.gov*. Supply user name **anonymous**, and give the user's Internet e-mail address in response to the prompt for the password. Select the subdirectory **/pub/publications**, then subdirectory

^{*60} FR 49978-50006.

^{*}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.

Notices to Readers — Continued

tory **mmwr**. Select subdirectory **wk** for the *MMWR* (weekly), subdirectory **ss** for *CDC* Surveillance Summaries, or subdirectory **rr** for *MMWR* Recommendations and Reports. Then view the listing, and download the files of interest.

Each .pdf file represents a single issue of *MMWR* and is named according to the publication, volume, and issue number. For example, mm4301.pdf contains all pages for the *MMWR* (weekly) Volume 43, Number 1. Files with the prefix rr or ss represent *MMWR Recommendations and Reports* or *CDC Surveillance Summaries*, respectively.

CDC WWW server. Programs that browse the WWW (e.g., Mosaic) allow particularly easy navigation of the Internet. Use WWW software to connect to the *MMWR* WWW pages at either of the following addresses:

http://www.cdc.gov/

Go to **Publications, Products, and Subscription Services**, then **Morbidity and Mortality Weekly Report (MMWR)** to find the *MMWR*, OR

http://www.cdc.gov/epo/mmwr/mmwr.html
 To access the MMWR, follow the instructions that appear on the screen.

How to Obtain MMWR from the Public E-Mail List

An automatic service is available for receiving a weekly notification of the contents of the *MMWR* and instructions on how to electronically retrieve the complete *MMWR* file through e-mail. To subscribe, send an e-mail message to *lists@list.cdc.gov*. The body content of the e-mail should read **subscribe mmwr-toc**. The subscriber will be added automatically to the mailing list and receive a weekly table of contents and other announcements regarding the electronic *MMWR*. Subscribers will also receive instructions about additional e-mail commands, such as retrieving documents, sending messages to the system operator, canceling a subscription, or sending an e-mail change of address.

Some sites may have to process the received mail attachments with a uudecode utility to create an acceptable binary file readable by AcrobatTM. If the user's e-mail system does not have uudecode, the user should contact his/her e-mail administrator. Uudecode software is available free of charge at many FTP sites on the Internet. Questions about the list service should be sent to mmwr-questions@list.cdc.gov by e-mail.

How to Obtain Free Reader Software

AdobeTM AcrobatTM Reader software is necessary to view the contents of the *MMWR* electronic files. Free AdobeTM AcrobatTM Reader software is available on the Internet from CDC and Adobe, Inc.

From CDC FTP server. To download Adobe™ Acrobat™ Reader software through the Internet, use FTP to connect to CDC's file server ftp.cdc.gov. Supply the user name anonymous and your Internet e-mail address when prompted for the password. Select the subdirectory pub, then the subdirectory Acrobat. Download the appropriate file (DOS, Macintosh®, UNIX®, Windows™).

From CDC WWW server. Free software also can be downloaded by connecting to the WWW. Using WWW software, connect to the following addresses for *MMWR* documents:

Notices to Readers — Continued

http://www.cdc.gov/

Choose Publications, Products, and Subscription Services, then Morbidity and Mortality Weekly Report (MMWR), and finally AdobeTM AcrobatTM Reader. Read the instructions. Then choose Obtain a free copy of the AdobeTM AcrobatTM Reader. Select "download to disk" from the WWW software, and download the appropriate DOS, Macintosh[®], UNIX[®], or WindowsTM reader(s).

http://www.cdc.gov/epo/mmwr/mmwr.html

Choose AdobeTM AcrobatTM Reader. Read the instructions. Then select Obtain a free copy of the AdobeTM AcrobatTM Reader. Select "download to disk" from the WWW software, and download the appropriate DOS, Macintosh[®], UNIX[®], or WindowsTM reader(s).

From Adobe, Inc., FTP server. Free Adobe™ Reader software is available by connecting to the anonymous FTP site *ftp.adobe.com* to download the software.

Adobe, Inc., also has a dial-in electronic bulletin board (BBS) at (206) 623-6984. Connecting to the BBS requires a modem and a terminal emulation program that supports VT-100 or ANSI emulation. Modem settings should be 8 data bits, 1 stop bit, and no parity. Adobe's BBS will support modems with speeds up to 14.4 kb. To use the BBS, the user should log in with his/her own name as the user ID, and select a password. Adobe BBS will not accept a blank as either the user ID or the password.

From Adobe, Inc., WWW server. Using WWW software, connect to *http://www.adobe.com/* and follow the instructions.

Adobe Software Support

AdobeTM AcrobatTM software installation and use questions should be directed to AdobeTM AcrobatTM software support. Assistance is available Monday–Thursday 6 a.m.–5 p.m. and Friday 6 a.m.–2 p.m. (Pacific time) at the following telephone numbers: AdobeTM AcrobatTM Reader Support, (900) 555-2362; AdobeTM AcrobatTM Technical Support, (408) 986-6580; AdobeTM Technical Support BBS, (206) 623-6984.

Users should not call CDC's MMWR office for software support.

Reference

1. CDC. Availability of electronic MMWR on Internet. MMWR 1995;44:48–50.

Erratum: Vol. 44, No. 37

In the report "Syringe Exchange Programs—United States, 1994–1995," the following limitation should have been included in the second full paragraph on page 691: "Because of incomplete reporting, the total number of syringes exchanged in 1992 is underestimated." In the next paragraph, the reference cited for the Tacoma hepatitis study is incorrect. The correct reference is "Hagan H, Des Jarlais DC, Friedman SR, et al. Reduced risk of hepatitis B and hepatitis C among injecting drug users participating in the Tacoma syringe exchange program. Am J Public Health (in press)." All subsequent references in the paragraph should be renumbered accordingly (i.e., references 7, 6, and 8 should become 7, 8, and 9).

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format and on a paid subscription basis for paper copy. To receive an electronic copy on Friday of each week, send an e-mail message to lists@list.cdc.gov. The body content should read subscribe mmwr-toc. Electronic copy also is available from CDC's World-Wide Web server at http://www.cdc.gov/ or from CDC's file transfer protocol server at ftp.cdc.gov. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone (202) 512-1800.

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