CENTERS FOR DISEASE CONTROL



MORBIDITY AND MORTALITY WEEKLY REPORT

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Perspectives in Disease Prevention and Health Promotion

State and Local Influenza Immunization Program Activities

Influenza prevention and control efforts in the United States have relied on cooperation between federal, state, and local public health agencies and private sector providers. Since the 1979–80 influenza season, public sector resources for influenza control have been provided primarily by state and local health agencies.

Between the 1985–86 and 1986–87 influenza seasons, the number of state and local projects offering influenza vaccine increased markedly. During the 1985–86 influenza season, 20 of 63 federal immunization grant-supported localities reported purchasing approximately 1,710,024 doses of influenza vaccine for use in public clinics. During the 1986–87 influenza season, 36 localities reported purchasing 2,179,485 doses of influenza vaccine. Compared with the previous year, the activities in 1986–87 represented increases of 80% in project participation and 27% in the number of doses purchased.

Programs in Allegheny County, Pennsylvania, and in California and Vermont illustrate state and local efforts to improve influenza vaccine coverage.

Allegheny County, Pennsylvania. During the 1986-87 influenza season, the Allegheny County Health Department conducted expanded outreach clinics to immunize high-risk persons against influenza. Of the 10,200 persons residing in nursing home facilities, 8529 (84%) received vaccine provided by the health department. Previous immunization coverage levels in Allegheny County nursing homes ranged from a low of 36% in the 1979-80 influenza season to a high of 71% during the 1985-86 season. An additional 43,926 doses were administered in health department clinics, hospital outpatient departments, community clinics, and senior citizen facilities. An estimated 21% of the 210,000 persons ≥65 years of age who were not in long-term-care facilities received publicly purchased vaccine. Allegheny County coordinated the development of a coalition involving the American Lung Association (ALA) of Western Pennsylvania and other health-care organizations that conducted surveys to measure the impact of and coverage levels for their programs. A telephone survey conducted by the ALA at the conclusion of the 1986-87 influenza season showed overall influenza vaccination rates of 32% in noninstitutionalized persons aged ≥65 vears in the general population. The ALA publicized the recommendations and distributed educational material to high-risk groups (1).

Influenza Immunization - Continued

California. The State of California, through the California Department of Health Services (CDHS), distributed over 481,000 doses of influenza vaccine, of which over 350,000 doses were administered to approximately 12% of California residents \geq 65 years of age. This program, in operation since 1974, is funded entirely through state general revenue funds. The CDHS distributes vaccine to 59 county and municipal health departments. Fees up to \$2.00 may be charged by local units to defray administrative costs. Vaccine is offered at clinics to all persons \geq 55 years of age and to persons of any age with certain chronic illnesses. Staff for outreach clinics and nursing home programs is provided jointly by California chapters of the American Red Cross and state and local health departments.

Vermont. The Vermont Department of Health receives a yearly grant from Blue Cross/Blue Shield of Vermont to support the purchase of influenza vaccine for an immunization program for persons ≥60 years of age and persons of all ages with high-risk conditions. Vaccine is distributed to home health agencies and visiting nurse associations that provide staffing and clinic coordination. Area Offices on Aging provide additional coordination and publicity through a newsletter distributed to senior citizens of Vermont. During the 1987–88 influenza season, approximately 11,000 persons received influenza vaccine through this program.

Reported by: Allegheny County Health Dept, Pittsburgh; R David, MD, Acting State Epidemiologist, Pennsylvania Dept of Health. DO Lyman, MD, State Epidemiologist, California Dept of Health Svcs. RL Vogt, MD, State Epidemiologist, Vermont Dept of Health. Div of Immunization, Center for Prevention Svcs, CDC.

Editorial Note: Older persons and those with certain chronic health problems are at increased risk for complications of influenza infection. Target groups for influenza immunization include children and adults with cardiopulmonary or renal disease, metabolic diseases (including diabetes mellitus), severe anemia, or compromised immune function; residents of chronic-care facilities; health-care professionals caring for high-risk patients; and household contacts of high-risk persons (2).

As many as 50,000 excess deaths are caused by influenza in the United States during epidemic years. Although influenza vaccine can substantially reduce influenzaassociated morbidity and mortality, only about 20% of high-risk persons are immunized annually. To increase coverage, many state and local health departments have collaborated with private sector groups to develop special influenza vaccination programs such as those reported above. In addition, in October 1988, CDC, in collaboration with the Health Care Financing Administration, awarded demonstration grant funds to nine programs to assess the cost effectiveness of furnishing influenza vaccine to Medicare part B beneficiaries.

In the hospital setting, influenza vaccine should be offered to high-risk persons between September and February (2). Although other organized vaccination campaigns for high-risk persons are optimally undertaken in November, health-care providers should make every effort to ensure that high-risk persons are immunized during routine health-care contacts during the fall and early winter. Studies suggest that at least 40%–55% of persons who are at high risk or who died of influenza and pneumonia may have received care in a health-care institution during the previous year; at least 75% of these persons have attended outpatient clinics but failed to receive influenza vaccine when vaccines should have been routinely available (2–4). Recognizing these missed opportunities is important in improving coverage levels in high-risk groups.

Influenza Immunization – Continued

Because of its substantial health impact, influenza is one of the most important vaccine-preventable diseases of adults. All providers of health care to adults should take every opportunity to review the immunization status of patients and, when indicated, offer their patients influenza vaccine and other vaccines (pneumococcal, tetanus/diphtheria toxoids, measles-mumps-rubella, and hepatitis B) appropriate for adults.

References

- CDC. Allegheny County 1986–87 influenza vaccination program Pittsburgh, Pennsylvania. MMWR 1987;36:617–9.
- 2. ACIP. Prevention and control of influenza. MMWR 1988;37:361-4,369-73.
- Barker WH, Mullooly JP. Pneumonia and influenza deaths during epidemics: implications for prevention. Arch Intern Med 1982:142:85–9.
- Williams WW, Hickson MA, Kane MA, et al. Immunization policies and vaccine coverage among adults: the risk of missed opportunities. Ann Intern Med 1988;108:616–25.

Notice to Readers

Availability of the CDC/NIH Manual, Biosafety in Microbiological and Biomedical Laboratories

The second edition of *Biosafety in the Microbiological and Biomedical Laboratories* is now available.

This document was developed jointly by CDC and the National Institutes of Health in 1984 to help define the principles of biosafety and to provide guidelines for implementing them in the research laboratory. It outlines standard and special microbiologic practices, safety equipment, and facilities that constitute four biosafety levels. Recommended safe microbiologic techniques are described in detail for special infectious agents through the use of agent summary statements. The 1988 edition is identical in content but has added the Agent Summary Statement for Human Immunodeficiency Virus and Report on Laboratory-Acquired Infection with Human Immunodeficiency Virus (1) to the information in the first edition.

Requests from academic institutions and private laboratories for single copies should be directed to NIH/DS, 31-1C02, Bethesda, MD, 20892. Copies for other institutions or multiple copies may be obtained for \$3.75 per copy (stock no. 107-040-000508-3) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

Reference

^{1.} CDC. 1988 agent summary statement for human immunodeficiency virus and report on laboratory-acquired infection with human immunodeficiency virus. MMWR 1988;37(suppl S-4).

Influenza Immunization - Continued

Erratum: Vol. 37, No. 45

p. 691 In the article, "State-Specific Estimates of Smoking-Attributable Mortality and Years of Potential Life Lost – United States, 1985," the two numbers in parentheses in item 3 of the last paragraph are reversed. This item should read: "deaths among nonsmokers caused by passive smoking (3825) and deaths from cigarette-caused fires (1570) were included in the previous estimate. . .." Also, RK Sikes, DVM, State Epidemiologist, Georgia Dept of Human Resources, should be added to the credits.

TABLE I. Summary - cases of specified notifiable diseases, United States

	461	h Week End	ing	Cumulative, 46th Week Ending				
Disease	Nov. 19, 1988	Nov. 21, 1987	Median 1983-1987	Nov. 19, 1988	Nov. 21, 1987	Median 1983-1987		
Acquired Immunodeficiency Syndrome (AIDS)	515	U*	117	27,144	17,979	6,963		
Aseptic meningitis	145	184	231	5,960	10,222	9,627		
ncephalitis: Primary (arthropod-borne						-		
& unspec)	17	24	24	689	1,169	1,169		
Post-infectious	2	2	-	110	92	95		
Gonorrhea: Civilian	12,170	12,886	16,982	614,015	683,442	786,295		
Military	165	573	403	10,316	14,682	18,702		
lepatitis: Type A	629	387	439	22,860	21,724	20,174		
Type B	466	511	493	19,803	22,479	22,841		
Non A, Non B	44	39	64	2,216	2,623	3,143		
Unspecified	69 37	44	77	2,027	2,754	4,526		
egionellosis	37	25	18	859	861	669		
eprosy	7	•	5	150	176	215		
Malaria	19	13	19	892	809	894		
Measles: Total [†]	42	17	5	2,639	3,523	2,664		
Indigenous	39	16	5	2,374	3,105	2,235		
Imported	3	1	1	265	418	303		
Meningococcal infections	52	65	45	2,496	2,587	2,377		
Mumps	111	185	49	4,081	11,521	2,928		
Pertussis	65	41	37	2,495	2,244	2,244		
Rubella (German measles)	2	2	8	187	321	594		
Syphilis (Primary & Secondary): Civilian	742	619	511	35,679	31,323	24,698		
Military	1	3	3	142	144	146		
Toxic Shock syndrome	5	8		307	300	333		
Tuberculosis	439	423	415	18,719	18,853	18,853		
Tularemia	4	1	6	169	183	183		
Typhoid Fever	18	7	7	345	301	336		
Typhus fever, tick-borne (RMSF)	5	7	7	591	581	720		
Rabies, animal	104	68	83	3,837	4,194	4,847		

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1988		Cum. 1988
Anthrax Botulism: Foodborne (Colo. 1) Infant	26 31	Leptospirosis Plague Poliomyelitis, Paralytic	41 14 1
Other Brucellosis Cholera	3 58	Psittacosis (Mo. 1, Calif. 1) Rabies, human	78 - 48
Congenital rubella syndrome Congenital syphilis, ages < 1 year Diphtheria	6 4 426	Tetanus Trichinosis (Mich. 1)	40 40

*Because AIDS cases are not received weekly from all reporting areas, comparison of weekly figures may be misleadiing. *There were no cases of internationally imported measles reported for this week.

		T		1300 a							·		
	AIDS	Aseptic Menin-		halitis Post-in-		orrhea		T	Viral), by 1		Legionel-	Leprosy	
Reporting Area		gitis	Primary	fectious	(Civ	rilian)	A	В	NA,NB	Unspeci- fied	losis	Lepicay	
	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1987	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988	
UNITED STATES	27,144	5,960	689	110	614,015	683,442	22,860	19,803	2,216	2,027	859	150	
NEW ENGLAND	1,163	375	24	4	19,221	21,186	754	1,037	111	85	49	15	
Maine N.H.	26 35	19 40	2 1	3	352 230	608 355	18 42	50 66	5 10	1 4	4 4	-	
Vt.	10 650	27 155	7	1	107 6,459	201 7,431	14 363	39 647	6 71	4 61	5 33	- 14	
Mass. R.I.	78	81	8	-	1,796	1,934	80	75	11	-	3	1	
Conn.	364	53	6	-	10,277	10,657	237	160	8	15	-	•	
MID. ATLANTIC Upstate N.Y.	9,124 1,184	643 347	52 33	4	95,817 14,006	107,456 15,606	1,731 680	2,840 681	167 66	281 19	200 75	8	
N.Y. City	5,069	123	8	3	39,700	57,028	320	1,193	16	205	45	7	
N.J. Pa.	2,152 719	61 112	11	•	13,817 28,294	14,703 20,119	393 338	650 316	57 28	41 16	40 40	1	
E.N. CENTRAL	1.940	985	180	13	104,279	104.686	1,499	2,095	194	112	200	5	
Ohio	441	380	61	3	23,629	23,411	298	488	32	19	79	-	
Ind. III.	80	92 92	27 32	10	8,002	8,287	148 481	304 447	19 68	24 29	28	4	
Mich.	898 417	374	43	10	31,334 33,267	30,486 33,392	364	617	51	37	55	-	
Wis.	104	47	17	-	8,047	9,110	208	239	24	3	38	1	
W.N. CENTRAL	668	245	52	11	26,339	27,758	1,250	897	96	31	72 4	1	
Minn. Iowa	146 39	29 35	11 9	3 3	3,535 1,946	4,138 2,715	90 43	119 77	19 13	3 2	18	-	
Mo.	350	99	1	-	15,153	14,722	756	537	44	16	21	-	
N. Dak. S. Dak.	4	5 18	4 5	2	163 444	261 549	6 26	12 4	3 3	5	1 14	-	
Nebr.	33	11	12	2	1,383	1,802	46	40	2	:	5	-	
Kans.	89	48	10	1	3,715	3,571	283	108	12	5	9	1	
S. ATLANTIC Del.	4,704 62	1,279 42	102 3	40	173,430 2,701	179,455 3,061	2,130 44	4,134 128	347 7	300 4	133 13	1	
Md.	497	187	9	3	18,040	20,469	266	623	38	25	18	1	
D.C. Va.	433 328	19 181	1 32	1 4	13,132 12,677	11,892 13,121	16 339	42 301	3 72	1 198	1 11	-	
W. Va.	16	35	22	-	1,217	1,273	14	65	5	4	-	-	
N.C. S.C.	249 166	157 21	21	1	24,535 13,799	26,442 14,087	291 40	745 476	84 12	- 5	31 26	-	
Ga.	669	142	1	2	32,741	32,055	560	601	13	6	21	-	
Fla.	2,284	495	13	29	54,588	57,055	560	1,153	113	57	12	-	
E.S. CENTRAL Ky.	667 85	406 141	60 20	8 1	49,085 4,943	51,711 5,206	698 461	1,269 255	169 59	13 2	47 20	2	
Tenn.	293	48	15	-	17,029	18,197	152	570	40	-	8	-	
Ala. Miss.	185 104	164 53	25	2 5	14,774 12,339	16,232 12,076	52 33	330 114	59 11	10 1	13 6	2	
W.S. CENTRAL	2,324	724	82	3	66,278	77,510	2,827	1,822	192	495	25	31	
Ark.	75	14	5	-	6,603	8,730	307	99	5	17	4	-	
La. Okla.	318 127	116 68	23 8	1	13,188 6,278	13,054 8,349	147 454	317 160	25 42	16 27	7 14	1	
Tex.	1,804	526	46	2	40,209	47,377	1,919	1,246	120	435	-	30	
MOUNTAIN	791	213	26	3	13,113	17,870	3,030	1,463	227	162	44	1	
Mont. Idaho	11 10	4		:	372 301	494 621	39 122	52 100	10 7	4	2	-	
Wyo.	6	2	-	-	180	389	5	12	3	-	3	-	
Colo. N. Mex.	281 49	69 22	3	- 1	2,905 1,307	4,050 1,961	207 493	178 215	63 18	73 1	8 4	1	
Ariz.	261	73	11	i	4,754	6,042	1,673	577	68	53	19	-	
Utah Nev.	58 115	25 17	4 5	1	480 2,814	552 3,761	281 210	126 203	37 21	18 9	3 5	-	
PACIFIC	5,763	1,090	111	24	66,453	95,810	8,941	4,246	713	548	5 89	86	
Wash.	342	-,000	7	4	6,184	8,025	2,042	772	177	69	21	7	
Oreg. Calif.	163 5,145	963	99	20	2,915 55,883	3,604 81,918	1,216 5,146	520 2,855	77 446	21 446	4 61	1 66	
Alaska	16	25	3	-	936	1,516	525	49	446	7	-	1	
Hawaii	97	102	2	•	535	747	12	50	5	5	3	11	
Guam P.R.	1 1,230	- 69	4	- 1	122 1,145	179 1,743	9 51	13	-	2	1	5	
V.I.	32		-		365	253	51	240 7	41 2	40	-	3	
Amer. Samoa	-	-	-	-	65	74	3	2	-	5	-	2	
C.N.M.I.	-	•	-	-	39	•	1	3	-	4	-	1	

TABLE III. Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

N: Not notifiable

U: Unavailable

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

			Measies (Rubeola)					Menin-							Buhalla			
Reporting Area	Malaria	Indig	enous		orted*	Total	gococcal Infections	Mu	mps		Pertussi	5		Rubella				
	Cum. 1988	1988	Cum. 1988	1988	Cum. 1988	Cum. 1987	Cum. 1988	1988	Cum. 1988	1988	Cum. 1988	Cum. 1987	1988	Cum. 1988	Cum. 1987			
UNITED STATES	892	39	2,374	3	265	3,523	2,496	111	4,081	65	2,495	2,244	2	187	321			
NEW ENGLAND	67	-	83	2	54	280	215	•	117	1	175	150	-	9	1			
Maine N.H.	3	:	7 67	-	44	3 162	10 23		105	-	24 47	28 39	-	5	-			
Vt.	4	-	-	-	-	26	16	-	5	-	4	4	-	-	-			
Mass. R.I.	33	-	2	-	2	65 2	94 21	-	7	-	60 17	50 3	-	3 1	:			
K.I. Conn.	18	-	7	- 2§	8	22	51		-	1	23	26	-	-	-			
MID. ATLANTIC	158	30	893	-	49	582	263	16	340	17	194	268	-	14	12			
Upstate N.Y. N.Y. City	38 86	-	19 46	:	18 6	40 463	124 64	:	96 101	9 1	112 6	154 13	-	2 7	10 1			
N.J.	11	30	299	-	11	39	63	9	53	7	15	17	-	ŝ	i			
Pa.	23	-	529	-	14	40	12	7	90	-	61	84	-	2	-			
E.N. CENTRAL	47	-	141	-	57	374	346	7	806	1	234	252	-	31	38			
Ohio	11	-	2	-	32	5	126	1	113 73	1	49 74	74 17	-	1	-			
Ind. III.	4 2	-	57 56	:	16	194	26 74	2	295		44	16	-	26	27			
Mich.	23	-	26	•	5	29	80	4	210	-	34	46	-	4	9			
Wis.	7	-	•	-	4	146	40	-	115	-	33	99	-	-	2			
W.N. CENTRAL	18	-	11	1	3	230 39	91 19	37	192	1	124 49	134 13	-	2	2			
Minn. Iowa	6 2	-	10	15	1	- 39	19	-	34	1	30	57	2	-	1			
Mo.	6	-	1	-	1	189	34	2	40	-	22	33	-	-	-			
N. Dak.	-	-	-	-	-	1	1	-	- 1	-	11 5	12 3	-	-	-			
S. Dak. Nebr.	1	-	-	-	-	-	12	-	11	-	-	1	-	-	-			
Kans.	3	-	-	-	-	1	21	35	106	-	7	15	-	2	1			
S. ATLANTIC	115	4	384	•	22	166	431	9	665	3	239	301	1	18	19			
Del.	1	-		:	-	32 7	2	1	1		7	5	:	-	23			
Md. D.C.	20 12	:	11	-	5	1	52 8	5	129 264	1	46 1	18	-	1	1			
Va.	20	3	207	-	2	1	51	2	136	2	23	50	-	11	1			
W. Va.	3	-	6	-	2	÷	7 66	1	17 51	-	8 65	39 119	1	1	1			
N.C. S.C.	13 10	-	-	-	5	6 2	36	-	6	-	1			-	- 1			
Ga.	5	-	-	-	-	9	68	-	29	-	36	23	-	2	2			
Fla.	31	1	160	•	10	108	141	-	32	-	52	47	-	3	9			
E.S. CENTRAL	19	-	70	-	-	6	238 53	2 2	439 210	1	100 12	48 2	-	2	3 2			
Ky. Tenn.	-	-	35 1		-		130	-	211	-	29	15	-	2	ī			
Ala.	10	-	-	-	-	4	40	-	15	1	55	24	-	-	-			
Miss.	9	-	34	•	-	2	15	N	N	-	4	7	-	-	-			
W.S. CENTRAL	78	-	14	-	3	448	167	19	789	3 2	203 25	274 12	-	11 4	11 2			
Ark. La.	4 12	-	-	:	1	-	20 47	11 2	116 288	1	18	49	-	-	-			
Okla.	10	-	8	-	-	4	19	-	197	-	62	162	-	1	5			
Tex.	52	-	6	-	2	444	81	6	188	-	98	51	-	6	4			
MOUNTAIN	42	-	117	-	30	496	74	11	203	30	740	193	-	6	25 8			
Mont. Idaho	5 2	-	5	:	28 1	128	2 8	:	2 4	3	2 323	6 62	-	:	1			
Wyo.	-	-	-	-		2	-	-	3		2	5	-	-	1			
Colo.	14	-	112	•	1	9	18	2	33	-	29	65	-	2	-			
N. Mex. Ariz.	2 13	-	-		-	317 36	11 18	N 8	N 137	27	51 306	12 33	-	:	5			
Utah	4	-	-		-	1	- 15	-	7	-'-	26	10	-	3	10			
Nev.	2	-	-	•	-	3	2	1	17	-	1	-	-	1	-			
PACIFIC	348	5	661	-	47	941	671	10	530	8	486	624	1	94	210 2			
Wash. Oreg.	22 16	-	76	-	2	44 100	62 41	2 N	52 N	3	110 46	93 70	-	•	2			
Calif.	297	5	644	:	37	792	545	8	438	5	265	220	1	66	134			
Alaska	3	-	1	-	-	1	6	-	13	•	7	6	-	-	2 70			
Hawaii	10	-	3	-	8	4	17	-	16	-	58	235	-	28				
Guam	-	-	226	-	1	2 771	-	-	2	-	-	-	-	1	1			
P.R. V.I.	2	-	220	:			11	-	10 31	-	15	20	-	3	1			
Amer. Samoa	-	-	-	-	-	1	2	-	3	-	-	•	-	•	-			
C.N.M.I.	1	-	-	-	-	-	1	-	2	-	-	-	-	-	-			

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

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

N: Not notifiable U: Unavailable [†]International [§]Out-of-state

	(Primary &		Toxic- shock Syndrome		culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
		Cum. 1987	Cum. 1988	Cum. 1988	Cum. 1987	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988
UNITED STATES	35,679	31,323	307	18,719	18,853	169	345	591	3,837
NEW ENGLAND	1,055	570	24	490	567	4	35	12	15
Maine N.H.	12	1	4	22	22	-	-	-	1
N.n. Vt.	6 3	3 4	5 2	9 4	18 14	-	1	•	5
Mass.	391	269	10	287	312	3	21	- 7	-
R.I.	30	11		39	58	-	6	2	-
Conn.	613	282	3	129	143	1	7	3	9
MID. ATLANTIC Upstate N.Y.	8,634 525	5,806 223	46 22	3,828 489	3,423 452	-	67	18	449
N.Y. City	6,012	4,334	6	2,128	1,686	-	13 · 41	11 6	43
N.J.	893	619	3 3	604	598	-	11	-	14
Pa.	1,204	630	15	607	687	-	2	1	392
E.N. CENTRAL	1,037	778	45	2,090	2,101	1	33	36	138
Ohio	96	93	31	400	378	-	8	24	5
Ind.	49	54	1	215	211	-	2	2	29
til. Naish	475	403	1	910	942	-	17	7	29
Mich. Wis.	388 29	174 54	12	472	483	1	4	2	34
			-	93	87	-	2	1	41
W.N. CENTRAL	213	163	43	466	550	76	4	91	417
Minn.	17	18	5	77	109	3	2	2	123
lowa Mo.	23 138	26 76	7	51	37	-	-	-	13
N. Dak.	130	/0	12 3	228 15	296 13	46	2	55	20
S. Dak.	-	11	4	32	24	16	-	7	96 112
Nebr.	28	11	4	14	25	3	-	í	18
Kans.	6	20	8	49	46	7	-	26	35
S. ATLANTIC	12,650	10,792	19	3,986	4,019	5	39	197	1,317
Del.	91	64	1	37	38	2	-	1	56
Md.	613	556	3	379	347	-	2	22	289
D.C. Va.	621	353	-	173	142	:	2		11
va. W. Va.	386 36	295 12		366 66	390 93	2	12	17	331
N.C.	726	650	9	448	473	-	1 2	2 107	91 8
S.C.	668	662	3	428	418		-	22	115
Ga.	2,268	1,506	-	640	711	1	7	23	270
Fla.	7,241	6,694	3	1,449	1,407	-	13	3	146
E.S. CENTRAL	1,750	1,708	23	1,517	1,697	11	3	87	274
Ky.	58	22	9	332	393	5	ĩ	29	111
Tenn.	735	672	10	452	511	5	-	37	69
Ala.	516	450	3	465	495	:	1	10	87
Miss.	441	564	1	268	298	1	1	11	7
W.S. CENTRAL	3,897	3,933	28	2,376	2,226	53	8	135	491
Ark. La.	225 774	231	2	270	266	34	-	30	81
Okla.	136	730 155	- 9	306 218	272 214	16	4	2 88	10
Tex.	2,762	2,817	17	1,582	1,474	3	4	15	31 369
MOUNTAIN	742	610	35	510	551	11	9	11	
Mont.	3	9	-	31	13		1	6	345 191
Idaho	3	5	5	19	28	-	-	1	11
Wyo.	1	3	•	5	2	2	-	3	38
Colo.	97	111	3	57	140	5	3	1	28
N. Mex. Ariz.	46 146	50	2	88	85	2	1	-	11
Utah	140	268 22	16 9	225 29	230	1	4	•	41
Nev.	431	142		56	24 29	1	-		9 16
PACIFIC	5,701	6,963	44	3,456			447	-	
Wash.	196	0,903	44	3,456	3,719 216	8 1	147 13	4	391
Oreg.	273	269	í	132	113	i	13	1	-
Calif.	5,191	6,533	35	2,939	3,159	4	124	2	374
Alaska	14	4	-	41	56	2		-	17
Hawaii	27	14	1	140	175	-	3	-	-
Guam	3	2	-	21	26	-	-		-
P.R.	605	820	-	216	270	-	5	-	64
V.I.	1	9	-	6	2	-	-	-	-
Amer. Samoa C.N.M.I.	1	-	-	3	8	-	1	-	•
	1		-	17	-	-	-	-	

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

U: Unavailable

	T	All Ca	uses, B	y Age	(Years)								(Years)		<u> </u>
Reporting Area	All	≥65	45-64	25-44	1-24	<1	P&I** Total	Reporting Area	All	≥65	45-64	r i	1-24	<1	P&I** Total
	Ages								Ages			20 11	1-2-4		
NEW ENGLAND Boston, Mass.	745 191	525 118	139 40	42	14	25	70	S. ATLANTIC	1,179	695		117	55	42	59
Bridgeport, Conn.	35	26	40	15 2	5	13 1	28 6	Atlanta, Ga.	121	65	31	17	6	2	3
Cambridge, Mass.	40	29	š	3	-		3	Baltimore, Md. Charlotte, N.C.	135 85	88 54	27	9 5	5	6	2
Fall River, Mass.	28	24	3	ĩ	-	-	ĭ	Jacksonville, Fla.	123	54 66	16 33	14	4	6 3	13 5
Hartford, Conn.	46	28	9	4	5	-	2	Miami, Fla.	95	50	23	13	5	4	5 1
Lowell, Mass. Lynn, Mass.	27	18	8	1	-	-	2	Norfolk, Va.	82	51	17	5	3 3	6	ż
New Bedford, Mass.	24 30	19 24	5 5	1	•	-	2	Richmond, Va.	95	59	20	7	3	6	8
New Haven, Conn.	54	41	š	3		2	4	Savannah, Ga.	54	37	10	6	1	-	4
Providence, R.I.	55	44	7	ž	-	2	3	St. Petersburg, Fla. Tampa, Fla.	122 56	87 37	19 13	9 4	3	4	8
Somerville, Mass.	16	12	2	1	1	-	2	Washington, D.C.	168	68	52	26	17	1	4
Springfield, Mass.	69	49	15	2	:	3	6	Wilmington, Del.	43	33	8	ž		-	-
Waterbury, Conn. Worcester, Mass.	41 89	24 69	10 13	4 3	3		1	E.S. CENTRAL	816	527	176	62	25	26	42
					-	4	10	Birmingham, Ala.	112	57	31	10	25 5	26 9	43
MID. ATLANTIC Albany, N.Y.	2,720	1,796	535	257	68	62	124	Chattanooga, Tenn.	73	48	15	Š	3 3	2	5
Allentown, Pa.	58 27	45 20	75	3 1	1	3	1	Knoxville, Tenn.	68	42	18	4	4	-	3
Buffalo, N.Y.	100	71	20	4	ź	3	7	Louisville, Ky.	143	107	22	8	3	3	8
Camden, N.J.	34	22	-9	2	-	ĭ		Memphis, Tenn. Mobile, Ala.	200 48	137 29	35 12	16 6	7	5	17
Elizabeth, N.J.§	24	19	4	1	-	-	1	Montgomery, Ala.	40 51	35	9	2	1	1	3 3
Erie, Pa.t	48	35	10	1	2	:	5	Nashville, Tenn.	121	72	34	11	2	2	4
Jersey City, N.J. N.Y. City, N.Y.	63 1,445	37 947	14 286	7 158	2 37	3 17	2 63	W.S. CENTRAL	1,690	1,075	353	151	62	49	64
Newark, N.J.	105	42	26	26	4	'7	6	Austin, Tex.§	57	36	13	7	1	49	2
Paterson, N.J.	36	19	īŏ	3	ĩ	Ś.	3	Baton Rouge, La.	39	29	6	2	ż		4
Philadelphia, Pa.	297	172	74	22	13	14	7	Corpus Christi, Tex.§		37	10	1	-	-	1
Pittsburgh, Pa.†	94	71	14	6	1	2	5	Dallas, Tex.	189	123	36	15	9	6	6
Reading, Pa. Rochester, N.Y.	36 137	24 103	8	3	1		3	El Paso, Tex. Fort Worth, Tex	57 97	32 64	14 17	77	2	2	5
Schenectady, N.Y.	27	24	26 3	5	-	3	8	Houston, Tex.§	734	436	169	89	7 24	2 16	10 18
Scranton, Pa.†	33	28	3	1	1		2	Little Rock, Ark.	79	55	14	6	- 1	3	7
Syracuse, N.Y.	53	37	7	6	i	2	5	New Orleans, La.	114	64	21	10	8	11	
Trenton, N.J.	53	40	6	3	-	4	1	San Antonio, Tex.	151	105	30	4	6	6	4
Utica, N.Y. Yonkers, N.Y.	18	12	1	3	2	-	1	Shreveport, La. Tulsa, Okla.	39 86	33 61	4	-	1	1	2
	32	28	2	2	•	•	3	MOUNTAIN			19	3	1	2	5
E.N. CENTRAL Akron, Ohio	2,496 89	1,646 63	507 14	169	73	99	112	Albuquerque, N. Mex	767 k. 80	502 43	134 14	73 13	28	29	40
Canton, Ohio	28	20	6	5 2	2	5	4	Colo. Springs, Colo.		43	8	8	6 1	4	4
Chicago, III.§	564	362	125	45	10	22	16	Denver, Colo.	131	99	18	12	i	1	5
Cincinnati, Ohio	110	75	21	5	6	3	17	Las Vegas, Nev.	123	79	23	14	5	2	10
Cleveland, Ohio	180	104	47	13	4	12	1	Ogden, Utah	22	16	4	-	1	1	1
Columbus, Ohio Dayton, Ohio	154	93	27	17	8	9	4	Phoenix, Ariz. Pueblo, Colo.	191 19	108 16	41 3	17	10	14	10
Detroit, Mich.	144 320	97 176	30 75	10 28	3 24	4 15	7	Salt Lake City, Utah	40	24	7	6	1	2	2
Evansville, Ind.	49	31	14	20	24	1	2	Tucson, Ariz.	99	74	16	š	3	3	4
Fort Wayne, Ind.	70	54	7	4	3	2	3	PACIFIC	1,905	1,264	332	187	58	60	117
Gary, Ind.	20	12	5	1	2	-	2	Berkeley, Calif.	29	20	5	- 107	1	3	2
Grand Rapids, Mich.	66	53	_7	3	1	2	3	Fresno, Calif.	75	41	15	10	6	3	9
Indianapolis, Ind. Madison, Wis.	172 37	101 29	53 3	8 3	1	9 2	5 5	Glendale, Calif.§	19	16	3	-	-	-	-
Milwaukee, Wis.	148	112	25	7	1	3	13	Honolulu, Hawaii	85	53	17	5	2	8	8
Peoria, III.	62	48	7	ź	3	ž	5	Long Beach, Calif. Los Angeles Calif.§	80 459	56 302	15 76	6 50	-	3	11
Rockford, III.	47	35	3	5	1	3	6	Oakland, Calif.§	71	46	13	8	22 2	5 2	16 3
South Bend, Ind.	42	35	7	-	-	-	1	Pasadena, Calif.	31	22	6	ĭ	ĩ	1	2
Toledo, Ohio	121 73	86	21	8	3	3	11	Portland, Oreg.	99	74	11	7	3	4	6
Youngstown, Ohio		60	10	-	1	2	1	Sacramento, Calif.	182	123		15	5	7	20
W.N. CENTRAL	831	571	166	50	21	23	42	San Diego, Calif. San Francisco, Calif.	121 190	78		12	4	4	9
Des Moines, Iowa Duluth, Minn.	73 24	54 16	10	6	1	2	3	San Francisco, Calif. San Jose, Calif.	172	117 108	33 33	35 16	- 9	5 6	4 16
Kansas City, Kans.	24 44	33	7	2	1	1	2 3	Seattle, Wash.	194	132		13	2	7	10
Kansas City, Mo.	125	70	30	14	4	÷	12	Spokane, Wash.	46	40		2	-		7
Lincoln, Nebr.	35	26	5	2	1	1	1	Tacoma, Wash.	52	36	6	7	1	2	4
Minneapolis, Minn.	175	111	43	9	6	6	9	TOTAL	13,149 ^{†1}	8,601	2.611	1,108	404	415	671
Omaha, Nebr.	85	56	24	4	1	2	7		-,	-,	-,	.,	-0-	415	0. 1
St. Louis, Mo.§ St. Paul, Minn.	142 57	103	20	10	4	5	1	1							
Wichita, Kans.§	5/ 71	48 54	5 14	2 1	2	1	1	1							
				'		•									

TABLE IV. Deaths in 121 U.S. cities,* week ending November 19, 1988 (46th Week)

*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.

ttTotal includes unknown ages.

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

Influenza Immunization – Continued Current Trends

Abortion Surveillance: Preliminary Analysis – United States, 1984, 1985

The total number of legal abortions reported to CDC from the 50 states and the District of Columbia was 1,333,521 in 1984 and 1,328,570 in 1985 (Table 1). The number of abortions reported for 1984 was approximately 5% higher than the number reported for 1983, whereas virtually no change occurred in the number reported between 1984 and 1985 (<1% decrease between 1984 and 1985).

In 1984, the national abortion ratio was 364.1 legal abortions per 1000 live births (Table 1). The ratio was 353.8 in 1985. The national abortion rate (number of legal abortions per 1000 women 15–44 years of age) was 24 for both 1984 and 1985, a figure essentially unchanged since 1980.

As in previous years, women obtaining abortions in 1984 and 1985 tended to be young, white, and unmarried and to have had no live births (Table 1). In 1985, 61.0% of women obtaining legal abortions were <25 years of age, 66.6% were white, 80.7% were unmarried, and 56.6% had had no live births. Comparable figures were also reported for 1984.

Curettage (suction curettage and sharp curettage) continued to be the primary method of abortion and accounted for 96.6% and 97.8% of all abortion procedures in 1984 and 1985, respectively. The remaining abortions were performed by intrauterine instillation, hysterotomy/hysterectomy, and other procedures. In both 1984 and 1985, as in previous years, approximately half of the legal abortions were performed in the first 8 weeks of gestation, and nearly 90% in the first 12 weeks of gestation.

Reported by: Pregnancy Epidemiology Br and Research and Statistics Br, Div of Reproductive Health, Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: CDC initiated national abortion surveillance in 1969. Between 1969 and 1982, the reported number of women obtaining abortions increased yearly. However, the annual percentage increase in numbers of abortions declined continuously between 1976 and 1982, from 9.2% for 1976–1977 to 0.2% for 1981–1982. Since 1980, the abortion numbers, ratios, and rates appear to be relatively stable, with minor year-to-year fluctuations.

Twenty-eight of the 52 reporting areas reported more abortions for 1984 than for 1983 (average increase of 8.9%); the remaining areas reported fewer (average decrease of 10.9%). Twenty-two of the areas reported more abortions in 1985 than in 1984 (average increase of 4.6%); the remaining 30 areas reported fewer (average decrease 5.2%).

Because of annual variation in the number of states reporting data to CDC on specific characteristics of women obtaining abortions, temporal trends based on these summary data should be viewed with caution.

Abortion Surveillance - Continued

Characteristics	1972	1976	1980	1981	1982	1983	1984	1985
Reported no. of legal abortions	586,760	988,267	1,297,606	1,300,760	1,303,980	1,268,987	1,333,521	1,328,570
Ratio*	180.1	312.0	359.2	358.4	354.3	348.7	364.1	353.8
Rate⁺	13	21	25	24	24	23	24	24
			1	Percentage	e distribut	ion ^s		
Age (yrs)								
≤19	32.6	32.1	29.2	28.0	27.1	27.1	26.2	26.3
20–24	32.5	33.3	35.5	35.3	35.1	34.7	35.3	34.7
≥25	34.9	34.6	35.3	36.7	37.8	38.2	38.5	39.0
Race								
White	77.0	66.6	69.9	69.9	68.5	67.6	67.4	66.6
Black and other	23.0	33.4	30.1	30.1	31.5	32.4	32.6	33.4
Marital status								
Married	29.7	24.6	23.1	22.1	22.0	21.4	20.8	19.3
Unmarried	70.3	75.4	76.9	77.9	78.0	78.6	79.2	80.7
No. live births [¶]								
0	49.4	47.7	58.4	58.3	57.8	57.1	56.9	56.6
1	18.2	20.7	19.5	19.7	20.3	20.7	20.9	21.3
2	13.3	15.4	13.7	13.7	13.9	14.2	14.4	14.5
3	8.7	8.3	5.3	5.3	5.1	5.2	5.1	5.1
≥4	10.4	7.9	3.2	3.0	2.9	2.8	2.7	2.5
Type procedure								
Curettage	88.6	92.8	95.5	96.1	96.4	96.8	96.6	97.8
Suction	65.2	82.6	89.8	90.4	90.6	91.1	92.8	92.9
Sharp	23.4	10.2	5.7	5.7	5.8	5.7	3.8	5.0
Intrauterine instillation	10.4	6.0	3.1	2.8	2.5	2.1	2.0	1.5
Hysterotomy/ hysterectomy	0.6	0.2	0.1	0.1	0.0**	0.0**	0.0**	0.0**
Other	0.5	0.9	1.3	1.0	1.0	1.1	1.4	0.7
Weeks gestation								
≤8	34.0	47.0	51.7	51.2	50.6	49.7	49.7	50.8
9– 10	30.7	28.0	26.2	26.8	26.7	26.8	26.8	26.2
11–12	17.5	14.4	12.2	12.1	12.4	12.8	12.9	12.3
13–15	8.4	4.5	5.2	5.2	5.3	5.8	5.9	5.9
16-20	8.2	5.1	3.9	3.7	3.9	3.9	3.9	3.9
≥21	1.3	0.9	0.9	1.0	1.1	1.0	0.8	0.8

TABLE 1. Characteristics of women obtaining abortions, by selected years - United States 1972-1985

*Abortions per 1000 live births.

[†]Abortions per 1000 women 15–44 years of age. [§]Excludes unknowns. Because the number of states reporting each characteristic varies from year to year, temporal comparisons should be made with caution. For 1972 and 1976, data indicate number of living children.

**<0.05%.



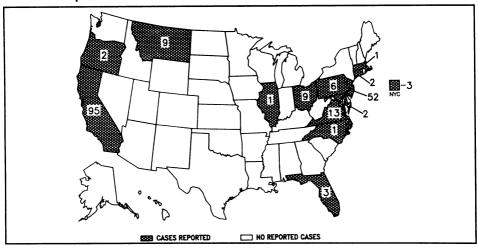


FIGURE I. Reported measles cases - United States, Weeks 42-45, 1988

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

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