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Epidemiologic Notes and Reports

Salmonella infantis – California, Colorado

California: Investigation by the San Diego Health Department of 6 cases of nosocomial *Salmonella infantis* infection that occurred in late December and early January among infants at 3 local hospitals revealed that 4 of the 6 patients had been fed a common isotonic diet. On January 26, *Salmonella* organisms (Group C1) were isolated from 2 production lots of this food at the FDA laboratory in Los Angeles.

The product was identified as "Precision Isotonic Diet" formula for oral or tube feedings often used in hospitalized individuals of all ages. The ingredients include egg albumin, sucrose, glucose, vitamins, and minerals. It is produced by Doyle Pharmaceutical Company in Minneapolis, Minnesota, and packaged as a powder in 2.06 oz. envelopes. The contaminated lots are 117A1286Ub and 478A2806U, which were produced on May 7 and October 6,1976, respectively. The product is distributed in the United States and Canada.

The manufacturer suggests that the egg albumin may have been the source of contamination and has initiated a voluntary recall of all lots of the 2 products that contain this egg albumin, Precision Isotonic Diet and Precision Moderate Nitrogen Diet. New production lots of these products – which contain egg albumin from a different source – will be identified by a code ending in the letter "Z" embossed on the edge of the envelope and printed in red ink on the case.

Colorado: Following report of the California outbreak, investigation by the Colorado State Health Department identified an additional case of nosocomial *S. infantis* infection in an 11-year-old girl who had received Precision Isotonic Diet during May and June 1976.

Reported by S Emerson, M Ginsberg, MD, S Naset, TR Philp, MD, V Taylor, M Thompson, DrPH, San Diego County Health Dept; CF Bryson, TF Midura, PhD, H Ratzay, SB Werner, MD, California State Dept of Health; TM Vernon, MD, State Epidemiologist, Colorado State Dept of Health; Food and Drug Administration; Enteric Diseases Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: S. infantis is 1 of the 10 most commonly isolated Salmonella serotypes. National surveillance data do not reveal an increase in isolations of this serotype during 1976 except for a slight increase in California. Any cases of S. infantis associated with the administration of this or other products should be reported to local and state health officials.

Current Trends

Carbon Monoxide and Liquefied Petroleum Gas Leakage Hazards in Recreational Vehicles – New Mexico

Preliminary findings of the Carbon Monoxide Hazard Reduction in Recreational Vehicles Program in New Mexico indicate a potentially serious health problem. Of 410 recreational vehicles (RV's) — including small trailers and pickup campers — surveyed from July through November, 1976, 60 (15%) units had overall inside carbon monoxide (CO) concentrations in excess of 34 ppm. In 58 units the source was an appliance; ovens, gas lamps, and stoves were the major sources. In 2 vehicles the vehicle's engine exhaust fumes were leaking into the RV.

Liquefied Petroleum Gas (LPG) leaks were detected in 173 (42%) units. The causes of the leaks found included loose or faulty connections, pilot lights inadvertantly left on but not lit, and faulty burner control valves.

All owners were notified of the hazards. In general, the operators were unaware of the leaks and CO hazards. Major contributing factors were inadequate maintenance, carelessness, and the operators' lack of awareness concerning the operation and maintenance of their appliances. Faulty design of some venting systems was also found.

Editorial Note: Carbon monoxide is a deadly gas (odorless, colorless, tasteless, non-irritating) produced when fuel is incompletely burned. Any device that uses fuel (cooking stove, lamp, space heater, hot water heater, engine, for example) has an air inlet to supply oxygen for combustion. If the inlet is improperly adjusted or if the air flow is restricted by debris or dirt, the amount of CO produced increases sharply. Low levels of CO in an enclosed area cause headache, dizziness, and sleepiness. Continued exposure causes nausea, vomiting, and irregular heartbeat. If one is exposed to high levels of CO for a prolonged time unconsciousness and death may ensue. Also, effects on the brain and nervous system may indirectly cause an accident resulting in injury or death. Carbon monoxide is particularly hazardous at altitudes when the oxygen tension of the ambient air is low.

Carbon Monoxide - Continued

Misuse of LPG or gas leaks create a hazardous condition which may result in fire or explosion. LPG vapors are heavier than air. Leaking gas will settle to the floor of the vehicle or compartments. It may be present in a high

Epidemiologic Notes and Reports

Isolation of Mycobacteria Species from Porcine Heart Valve Prostheses – United States

Since October 1976, CDC has received reports from 6 medical centers that 14 isolates of mycobacteria species have been obtained from preimplantation cultures of porcine heterograft heart valves manufactured by Hancock Laboratories Incorporated, Anaheim, California, The cultures usually have become positive after approximately 2week incubations in thioglycollate media. The isolates have not grown well on the media routinely used for isolation of mycobacteria. Two isolates have been identified at CDC as being *Mycobacterium chelonei*; the other isolates thus far are not identified. All 14 culture-positive valves were used for cardiac valve replacement before the cultures became positive. In patients receiving these prostheses, there has been no documented mycobacterial disease associated with the valves.

Pig hearts are shipped to the manufacturer from abattoirs throughout the country. Aortic valves are excised and treated with a 0.2% buffered glutaraldehyde solution; they enough concentration to ignite should it come in contact with a source of ignition.

Reported by WC Bennet, JW Edwards, Environmental Chemicals Section, New Mexico Environmental Improvement Agency; and the Environmental Health Services Div, Bur of State Services, CDC.

are trimmed and attached to a polypropylene sewing ring. During processing, valves and excised aortic wall remnants are treated with 1% buffered glutaraldehyde. Cultures of aortic wall remnants are obtained 2 times during processing. Valves with culture-negative remnants are distributed in 0.2% buffered glutaraldehyde.

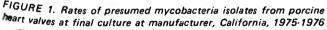
Before implantation, valves are removed from the glutaraldehyde solution and rinsed in sterile saline. Attached to each valve are 2 aortic wall remnants that may be cultured. Some hospitals do not routinely culture remnants at the time of implantation.

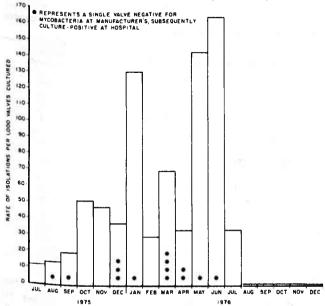
A cooperative investigation of the plant by the manufacturer, the U.S. Food and Drug Administration, and CDC revealed that for several years presumed mycobacteria have been intermittently cultured from tissue remnants in the plant. (Isolates were not definitely identified as mycobacteria until June 1976, when a consulting microbiologist identified some isolates as *M. avium-intracellulare.*) The

		5th WE	EK ENDING		СОМОТ	ATIVE, FIRST 5	WEEKS
	DISEASE	February 5, 1977	February 7, 1976	MEDIAN 1972–1976	February 5, 1977	February 7, 1976	MEDIAN 19721976
	lis	26	20	30	181	189	189
Brucellosis		3	2	2	13	20	9
	•••••••	5,548	5,226		24,577	22,669	
Diphtheria		-	4	2	1	43	10
Encephalitis		11	12	14	62	84	72
	Post-Infectious	2	4	4	6	20	16
	(Туре В	303	263	182	1,366	1,241	902
lepatitis, Viral	Type A	678	714	929	2,980	3,419	4,058
	(Type unspecified	180	180	,	828	865	,
Aalaria	• • • • • • • • • • • • • • • • • • • •	5	5	4	21	31	16
)	1,099	651	651	4,533	2,275	2,275
	ifections, total	32	34	27	188	144	144
	••••••	31	33	27	186	142	142
	••••••	1	1	-	2	2	4
189 · 22	• • • • • • • • • • • • • • • • • • • •	640	1,156	1,559	2,664	5,499	7,408
		8	25		69	132	
lubella (German		203	251	251	944	970	970
		C 1	-	1	5	3	5
		621	607		2 . 404	2,735	
	••••••••••••••••••••••••	1	3	1	9	14	8
		6	16	5	28	46	21
yphus, tick-bor 'enereal Disease:	ne (Rky. Mt. spotted fever)	-	1	1	7	2	9
	Civilian	17,840	19,093		93,657	97,844	
	Military	733	577		2.813	3.074	
Syphilis, prim	ary and secondary (Civilian	395	504		2,207	2,580	
	(Military	5	3		32	37	
labies in animal		34	47	47	213	156	238
	Table II. N	lotifiable Dise	ases of Low	Frequency: Uni	ted States		
			CUM.				CUN
nthrax:		Г	- Polion	yelitis, total:			
otulism: Tex. 1			5-772 CARCERS	0.0003752467476560000			1
	a syndrome: N.C. 1.		2 Psittad	11. 21. 10			3
				in man:			
			Trinhi	nosis: N.J. 1			13
			2				

Mvcobacteria - Continued

frequency of positive cultures increased substantially in late 1975 to mid-1976 (Figure 1). Since July 1976, the incidence of mycobacterial isolates has significantly decreased. The manufacturer now holds valves until cultures have been negative for 6 weeks (previously 2-4 weeks). No culture-positive valve is distributed. Investigation is continuing to determine the source of valve contamination with mycobacteria. Hancock Laboratories has voluntarily sent letters to cardiac surgeons and hospital personnel describing the problem and asking that valves processed from October 1975 through July 1976 be returned for exchange.





Reported by Hancock Laboratories Incorporated, Anaheim, Californie; JJ Marr, MD, St. Louis (Missouri) University School of Medicine: HD Donnell Jr, MD, State Epidemiologist, Missouri Dept of Health and Welfare; LL Maynes, RN, El Camino Hospital, Mountain View, California; I Krasnow, PhD, Long Beach, Veterans Administration Hospital; J Chin, MD, State Epidemiologist, California Dept of Health; RW Quenzer, MD, University of Colorado Medical Center, RF Waggoner, MS, SM(AAM), National Jewish Hospital, Denver; JA Curtin, MD, Washington Hospital Center District of Columbia; ME Levy, MD, State Epidemiologist, District of Columbia Community Health & Hospital Admin; CD Nutter, BS, National Institutes of Health, Bethesda, Maryland; K Lamprecht, Oklahoma City Veterans Administration Hospital; U.S. Food and Drug Adminiistration; Mycobacteriology Br, Bur of Laboratories, Epidemiologic Investigations Laboratory Br, Hospital Infections Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: Porcine prosthetic heart valves are used for aortic, mitral, and pulmonic valve replacement and for repair of various congenital heart defects. There is evidence that glutaraldehyde-treated porcine valves are almost nonthrombogenic and remain hemodynamically functional for periods of more than 6 years (1). Use of these valves has increased substantially in the past few years, and many surgeons feel that they are the valves of choice for valve replacement procedures. The largest manufacturer of these valves for clinical use is Hancock Laboratories.. In the past year an estimated 7,000 to 10,000 Hancock bioprostheses have beem implanted.

Solutions of 0.2% and 1% glutaraldehyde are used during processing, storage, and distribution of valves. The manufacturer has found that these solutions do not sterilize all valves contaminated with mycobacteria; therefore, the manufacturer and hospitals must depend on valve cultures to assess sterility. All valves which were reported to CDC to have positive mycobacterial cultures were culture-negative at the plant, and all of these valves were processed before August 1976 (Figure 1). Why these valves were culture-negative in the plant is unknown, but it is possible that remnant testing is not fully adequate to assess sterility of valves. An alternate, but less likely, explanation is that contamination occurred in individual hospitals.

No human disease has been attributed to the use of these valves, and the true frequency of contamination of available valves is unknown. The frequency of contamination as reported by the manufacturer's quality-assurance program has significantly decreased since July 1976, and the manufacturer estimates that 80%-90% of valves processed before August 1976 have been implanted. However, there may be a potential risk of a patients's developing mycobacterial disease if a contaminated valve is implanted.

The risk of infection associated with the Hancock valve (and other glutaraldehyde-processed valves) as compared with the risks associated with the use of other types of valves, is presently unknown. When use of the valve is felt to be indicated, FDA and CDC believe the following minimal precautions should be implemented, although they do not assure sterility of the valve : (1) use valves processed after July 1976, and (2) culture a tissue remnant in thioglycollate broth medium at the time of operation using techniques described in the valve package insert. If this culture is positive, characterization of the organism, including antibiotic sensitivities, may be useful in the subsequent clinical management of the patient.

Patients who receive these valves should be carefully observed for any evidence of infection. Diagnostic cultures of blood or tissue should include at least the use of thioglycollate and trypticase soy broth media and should be held for at least 3 weeks. All isolates of mycobacteria species associated with these valves should be reported to the manufacturer, state health departments, FDA, and CDC.

Reference

1. Zudhi N: The procine aortic valve bioprosthesis: A significant alternative. Ann Thorac Surg 21(6):573-575, 1976.

serum, b) morphology of the organism in yolk sac smears

stained by fluorescent antibody and by Giménez stain, c)

production of disease in guinea pigs, d) death pattern in

embryos of hens' eggs inoculated in the yolk sac, e) nega-

tive cultures on routine bacteriologic medium. Further

Follow-up on Respiratory Illness – Philadelphia

Two more isolations of the agent responsible for the respiratory outbreak in Philadelphia last July and August have been made. The same techniques described earlier (MMWR 26[2], 1977) were used to obtain the isolations from the lung tissues of 2 of 3 fatal cases. The new isolates have the following characteristics in common with the earlier 2 isolates: a) indirect fluorescent antibody staining of the organism in yolk sac smears with a known-positive convalescent

characterization is in progress. Serum specimens have been tested from 117 of the 180 cases in the Philadelphia outbreak. Eighty had serologic evidence of recent infection with the agent; 49 had seroconversions (increase in titer of at least 4-fold to 1:64 or higher), and 31 had high titers (1:128 or higher). In about half of the patients, the maximum titer has been 1:512 or greater. Seven cases with apparently well-timed serum specimens had no evidence of recent infection. Results of testing of the remaining 30 did not permit determination of whether or not there had been recent infection because of the timing of the specimens tested. Eleven persons with single days of exposure on July 21, 22, and 23 showed serologic evidence of recent infection as did 2 attendees at the Eucharastic Congress, suggesting that exposure occurred over a period of 2 weeks. Two Broad-Street pneumonias* and 2 Hotel A employees also showed evidence of recent infection but had not been included in the 180 cases.

In a continuing effort to define the level of antibody titers for the Philadelphia agent to be expected in patients with other diseases and in normal persons, convalescent sera from 95 pneumonia patients have been tested. Of these, 21 came from a recent outbreak of psittacosis in a turkey processing plant (MMWR 25[38], 1976); all 21 sera had characteristic rises in complement fixing antibody to psittacosis antigen. Against the agent causing the Philadelphia illness, none of the 21 pairs had changes of more than 2-fold. Two had titers of 1:64 in the convalescent specimen, but comparison with the acute specimens showed that this represented a decrease in titer of 2-fold in 1 case and an increase of 2-fold in the other. All the other titers were 1:32 or less.

The remaining 74 pneumonia sera examined had been submitted in recent months from various parts of the United States to CDC for viral diagnoses. The convalescent sera were first tested, and those with titers of 1:64 or greater were repeated with the acute specimen. All were negative except those from 1 Michigan patient who had a seroconversion from < 1:16 to > 1:512. His onset was August 19, 1976, and his pneumonia was severe; he had apparently not been out of the state during the possible incubation period.

Serum was also received from a patient who died of pneumonia in Indiana October 19, 1976. His onset was October 5,1976. On the tenth day of illness the titer was 1:16, and in the post-mortem specimen it was 1:256. Epidemiological investigations are being carried out by personnel from the state health departments and the Bureau of Epidemiology, CDC.

Also studied were sera from patients with Pontiac fever – a designation referring to an explosive outbreak of acute febrile illness involving personnel of and visitors to a county health department in Pontiac, Michigan, in July 1968 (MMWR 17[34], 1968). There were 144 cases and no

*Cases of Broad-Street pneumonia represent disease clinically similar to Philadelphia respiratory disease that occurred in persons who did not attend the Convention, were within 1 block of Hotel A between July 1-August 18, but said they did not go into Hotel A during the epidemic period. deaths. The typical disease was acute onset of fever, chills, and myalgia lasting 2-4 days with minor respiratory symp² toms. The incubation period was 1-2 days, and pneumonia was not seen.

Sera, preserved in CDC's Serum Bank, were tested from 37 patients with typical disease. At least 2 sera per patient were included. The results (Table 1) show that of 37 patients, 32 had serologic changes indicating that their illness was caused by an agent antigenically similar to that causing the respiratory disease in Philadelphia. The maximum titer observed in the seroconversions and positives was 1:512 or greater in 8 of 32 patients, a somewhat lower ratio than that seen with patients with the Philadelphia disease.

TABLE 1. Sera of patients with Pontiac fever. Results with indirect fluorescent antibody stains of yolk sacs infected with agent isolated from patients with Philadelphia respiratory disease.

Interpretation of titers	Number of Patients
Seroconversions: > 4-fold	26
4-fold	5
Positive (\geq 128) without seroconversion	1
Negative	5
Total patients tested	37
Maximum titer observed with	
seroconversions and positives ≥ 1024	3
512	5
256	10
128	9
64	5

Paired sera had also been collected in 1968 from control persons at another office of the health department. Of these, 10 pairs have been tested; all were negative. The highest titers seen with any of these 10 pairs was 1:32, and the changes in titer for any person were never more than 2-fold. As is standard practice, each serum associated with the Pontiac outbreak was tested as a coded unknown. Thus, the statistical possibility that these observations could have arisen from chance arrangement is small.

Thus it appears probable that Pontiac fever was caused by an agent antigenically related to that of the Philadelphi² illness. The differences in clinical form and in incubatio¹¹ period may indicate that the agents of the 2 outbreaks a^{re} not identical. Attempts are being made to isolate the etio¹² logic agent of Pontiac fever from materials that have bee¹¹ preserved at -70 C, so that the agent may be characterized and compared to the agent of the Philadelphia outbreak.

Reported by the Leprosy and Rickettsia Br, Respiratory Virolog^{II} Br, Virology Div, and Serum Bank Section, Scientific Services Di^{VI} Bur of Laboratories; Special Pathogens Br, Bacterial Zoonoses Br Bacterial Diseases Div, and Viral Diseases Div, Bur of Epidemiolog^{VI} CDC.

International Notes

Quarantine Measures

SENEGAL Smallpox - Change code to II > 6 mos. Insert: A Certificate is ALSO required from travelers who within the preceding 14 days have been in a country any part of which is infected.

SWAZILAND

Smallpox – Change code to II. Insert: A Certificate is ALSO r^{g} quired from travelers who within the preceding 14 days $h^{g v f}$ been in a country any part of which is infected.

Table III Cases of Specified Notifiable Diseases: United States Weeks Ending February 5, 1977 and February 7, 1976 – 5th M 5th Week

					· · · · ·		bruary 7			PATITIS, V	IRAL		
AREA REPORTING	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHI	HERIA	Primary:	Arthropod- Unspecified	Post In- fectious	Type B	Type A	Type	MALARIA	
	1977	1977	1977	1977	CUM. 1977	1977	1976	1977	1977	1977	1977	1977	CUM 1977
UNITED STATES	26	3	5,548	-	1	11	12	2	3 03	678	180	5	21
EW ENGLAND	1	1	520 14	-	-	2	1	-	3	12 2	10	-	1
Maine	-	-	14		_	_	-	-	-	1	-		_
New Hampshire*	_	-	13	÷	-		1 	-	-	-	-	-	-
Vermont Massachusetts	-	-	263	-	-	2	1	-	2	4	7	-	1
Rhode Island	1	ī	100 119	- 2	-	2	-	-	1	5	3	2	-
Connecticut						3	_					_	
DDLE ATLANTIC	-	_	442 354	-	_	2 1		-	60 24	61 19	29 8	-	6 3
Upstate New York	_	_	55	_	_	î	-	_	12	10	6	-	ž
New York City New Jarsey	-	-	NN	-	-	_	-	-	23	29	15	-	-
Pennsylvania *	-	-	29	-	-	-	-	-	1	3	-	-	-
AST NORTH CENTRAL	1	-	2,373	-	-	3	2	1	42	79	11		-
Ohio*	-	-	93 147	Ξ	-	1	-	1	9 5	26	- 3	Ξ	-
Indiana	1	-	513	-		_	-	-	3	6	2	-	_
Illinois Michigan	_	_	1,051	-	-	2	1	-	23	40	6	-	-
Wisconsin	-	-	569	-	-	Ξ	ī	-	2	7	ī	-	-
EST NORTH CENTRAL	1	-	775	-	-	2	4		27	42	4	1	1
Minnesota	-	-	2	-	_	-	1	-	10	4	-	1	1
10wa	-	-	377	=	-	2	3	-	4 9	4 22	4	-	-
Missouri = North Dakota	-	-	17	_	_	-	-	_	-	2	-	-	_
South Dakota	-	-	30	-	-	-	-	-	-	Ξ.	-	-	-
Nebraska	-	_	12 331	-	-	_	-	-	2 2	3 7	-	-	
Kanses							_			-			
DUTH ATLANTIC	6	-	3C1 5	-	-	2	1	1	32	126	25	1	4
Delawara* Maryland	-	-	16	-	-	-	-	-	5	11	7	1	2
District of Columbia	-	-	1	-	-	1	-	-	-	-	-	-	-
Virginia	1	-	19	-	-	-	-	1	5	7	5	-	2
West Virginia	- 5	-	71 NN	-	-	_	1	-	1 6	13 6	-	-	-
North Carolina South Carolina	_	_	14	_	_	_	_	_	-	4	-	_	-
Georgia*	-	18 -	-	-	-	-	-	-	-	25	-	-	-
Florida	-	-	175	-	-	1	-	-	15	60	12	-	1
AST SOUTH CENTRAL	6	-	243	-	-	-	1	-	24	51	7	-	-
Nentucky*	1	-	25	-	-	-	-	-	8	21	6	-	-
ennessee	2	-	NN	_	_	-	1	Ξ	6	14	L	Ξ	-
Alabama Mississippi	3	_	197 21	-	-	-	_	-	10	2 14	-	-	-
EST SOUTH CENTRAL	4	2	328	_	-	-	1	-	27	90	22	_	1
Arkansas *	-	-	2	-	-	-	-	-	3	11	1	-	
Louisiana	-	-	NN	-	-	-	1	-	-	-	-	-	-
Uklahoma	-	-	35	-	-	-	-	-	3	13	6	-	-
18X85*	4	2	291	-	-	-	-	-	21	66	15	-	1
OUNTAIN	-	-	278	-	-	-	-	-	12	60	11	1	4
montana	-	-	14	-	-	-	-	-	-	2	3	-	-
	-	_	22	_	-	_	-	_	-	4	1	-	Ξ
Wyoming Colorado =	-	-	122	-	-	-	_	-	8	20	1	1	3
new Maxico	-	-	5	-	-	-	-	-	ĩ	15	Â.	-	-
Arizona	-	11-	NN	-	-	-	-	-	-	9	1	-	1
Utah Nevada #	-	-	83 32	-	-	-	_	-	3	10	1	-	-
			200	_			-		7(~	2	
ACIFIC	7 3	_	288 260	_	1	-	2	-	76 4	157	61 2	2	4
uregon	-	-	200	_	-	_	_	_	6	13	4	-	-
Lautornia ·	4	<u> </u>	-	-	-	-	2	-	63	84	54	_	2
Alaska Hawaii	-	-	4 23	-	1	2	-	_	1 2	55 1	-	- 2	- 2
								_	-	•	•		£
uam*	NA	NA	NA	NA	2	NA	-	-	NA	NA	NA	NA	-
Maile Rico	-	-	5	-	-	-	-	-	1	11	-	-	-
Virgin Islands			-	-					-				

NA: Not available
 NN: Not notifiable
 Delayed reports: Asep. Meng.: Ohio add 1, Guam add 1 (1977); Brucellosis: Mo. add 1 (1977); Chickenpox: Pa. add 1 (1976), N. Hamp. add 10, Dela. add 17, Ga. add 14, Calif. add 4, Guam add 14 (1977); Chickenpox: Pa. add 1 (1976), N. Hamp. add 10, Dela. add 17, Ga. add 14, Calif. add 4, Guam add 14 (1977); Eleayed reports: Asep. Meng.: Ohio add 1, Guam add 1 (1977); Brucellosis: Mo. add 1 (1977); Chickenpox: Pa. add 1 (1976), N. Hamp. add 10, Dela. add 17, Ga. add 14, Calif. add 4, Guam add 14 (1977); Eleayed reports: Asep. Meng.: Pa. add 2 (1977); Hep. A: Pa. add 2 (1977); Hep. A: Va. add 36, Nev. add 1 (1977); Hep. A: Pa. add 13, Ga. add 47, Ark. add 3, Tex. add 2, Colo add 4 (1976), N. Hamp. delete 1, Ga. add 13, Ky. add 84, Guam add 2 (1977); Hep. unsp.: Pa. add 1, Colo. add 1 (1976), Mo. delete 1, Ky. add 21, Guam add 2 (1977); Hep. unsp.: Pa. add 1, Colo. add 1 (1976), Mo. delete 1, Ky. add 21, Guam add 2 (1977).

Table III-Continued Cases of Specified Notifiable Diseases: United States Weeks Ending February 5, 1977 and February 7, 1976 – 5th Week

	We	eks Endi	ing Febru	ary 5, <u>1</u>	977 and	Februa	ry 7, 19	976 — 5th	Week			
	ME	ASLES (Rube	eola)	MENINGO	COCCAL IN TOTAL	FECTIONS	м	UMPS	PERTUSSIS	RUB	ELLA	TETANUS
REPORTING AREA	4077	CUMU	LATIVE	4077	CUMUL	ATIVE		CUM.	4075		CUM.	CUM.
	1977	1977	1976	1977	1977	1976	1977	1977	1977	1977	1977	1977
UNITED STATES	1,099	4,533	2,275	32	188	1 4 4	640	2,664		203	944	5
NEW ENGLAND	33	100	12	2	9	9	13	122	-	9	56	-
Maine*	11	1 46	-	-	1	-	-	1	-	-	1	_
New Hampshire* Vermont	7	34	-	-	-	-	2	2	-	-	-	-
Massachusetts	12	12	2	1	2	3	-	10	-	3	33	_
Rhode Island	3	7	7 3	1	5	2	2 9	10 88	-	4 2	10 11	-
MIDDLE ATLANTIC	96	608	261	5	33	14	22	163	1	26	124	_
Upstate New York	23	68	140	2	10	4	6	30	1	15	34	-
New York City	6	26 11	12 16	1	8 12	4	14	73	-	6	21	_
New Jersey Pennsylvania	67	503	93	1	3	2	2	45 15	-	5	47 22	-
-	269	1,405	790	3	20	15	281	886	1	59	352	_
EAST NORTH CENTRAL Ohio	3	55	2	ĩ	12	4	3	124	_	ĩí	81	-
Indiana	138	700	103	-	-	-	6	42	-	4	118	-
Illinois	30 12	132 101	51 178	1	2	1 6	41 102	94 2.84	- 1	14 20	31 74	_
Michigan	86	417	456	-	2	4	129	342	-	10	48	-
WEST NORTH CENTRAL	281	1,136	33	2	7	12	137	711	-	9	68	1
Minnesota	89	152	1	-	-	2	3	3	-	1	2	-
lowa*.	123 15	664 80	7	_ 2	- 6	4	108 14	383 111	-	2 1	38 6	1
Missouri * North Dakota	12	2	1	-	-	-	-	2	_	_	-	-
South Dakota	-	4	-	-	-	1	-	1	-	-	-	-
Nebraska Kansas	54	3 231	19 5	÷.	1	2	12	1 210	-	1 4	1 21	-
SOUTH ATLANTIC	35	69	260	9	37	32	23	98	-	4	12	1
Delaware *		1	15	-	1	-	5	15	-	-	-	-
Maryland	10	10	87 1	1	4	1	1	8 2	-	=	-	_
District of Columbia* Virginia	5	24	2	-	3	-	2	21	-	-	1	1
West Virginia	2	16	43	-	4	2	3	26	_	_	4	-
North Carolina	_	_	_	5	10	8	_	3	-	2	3	_
Georgia*	18	18	_	2	4	-	-	1		-	-	-
Florida	-	-	112	1	7	15	12	20	-	2	2	-
EAST SOUTH CENTRAL	33	97	111	4	21	11	59	201	-	29	114	1
Kentucky	31 2	53 44	106	1	10 8	2	22	19 128	-	1 27	6 106	1
Tennessee	-	-	-	2	3	ŝ	37	54	-	1	2	-
Mississippi	-	-	4	-	-	1	-	-	-	-	-	-
WEST SOUTH CENTRAL	56	156	175	3	32	24	45	234	3	8	28	1
Arkansas	- 4	15	- 5	1	1 16	-	_	12	2	1	-	-
Oklahoma	6	13	155	-	-	8	21	114	-	3	7	_
Texas	46	137	15	2	15	15	24	108	1	4	20	1
MOUNTAIN	28	205	489	-	4	4	19	81	1	4	30	-
Montana	16	130	17	-	-	1	10	42	-	-	3	-
Idaho	4	15	112	_	1	-	10	42	-	_	- 1	-
Wyoming	-	32	8	-	1	_	5	13	-	-	5	-
New Mexico	-	-	2	-	-	-	1	3	1	1	1	-
Arizona*	5	21 2	8 341	-	2	2 1	- 3	22	_	3	20	-
Utah	3	5	1	-	-	-	-	1	-	-	_	-
PACIFIC	268	757	144	4	25	23	41	168	2	55	160	1
Washington	29	86	2	3	5	5	13	40	-	21	51	-
Oregon	1 238	7 616	140	1	1 14	1	13 13	26 88	2	3 29	7 100	1
Alaska	- 238	48	-	-	4	-	-	10	-	-	-	-
Hawaii	-	-	2	-	1	-	2	4	-	2	2	-
Guem	NA	-	4	_	_	1	NA	_	NA	N A	-	-
Puerto Rico	10	42	7	-	-	1	9	51	-	-	2	-
Virgin Islands*	-	-	-	-	-	-	4	4	-	-	-	-

NA: Not available *Delayed reports: Measles: Mo. delete 3 (1976) Maine delete 1, N. Hamp. add 7, Iowa delete 2, Mo. delete 1, Dela. delete 1, Ariz. add 2 (1977); Men. Inf.: Ga. add 4 (1976), Ga. add 3, La. delete 2, Ariz. delete 1 (1977); Mumps: Dela. add 7, Ga. add 1, V.I. add 14 (1977); Pertussis: D.C. delete 1 (1977).

Table III-Continued Cases of Specified Notifiable Diseases: United States Weeks Ending February 5, 1977 and February 7, 1976 – 5th Week

			r Ť				FEVER		<u>y 7, 1976 – </u>			0-1-1		RABIE
	TUBEI	RCULOSIS	TULA- REMIA		HOID Ver	TICK-I	BORNE			ISEASES (Civili	i			- IN
REPORTING AREA		r—	n.m.a			(RN	ASF)		GONORRHEA		<u> </u>	PHILIS (Pri	· · · · · ·	
	1977	CUM.	CUM.	1977	CUM.	1977	CUM.	1977	CUMULA		1977		LATIVE	_ сим.
		1977	1977		1977		1977		1977	1976		1977	1976	1977
UNITED STATES	621	2,404	9	6	28	-	7	17,840	93,657	97,844	395	2,207	2,580	213
NEW ENGLAND	18	80	-	1	2	-	-	439	2,376	2,732	14	72	74	1
Meine New Hampshire*	3	6 4	-	-	-	-	_	35 13	178 86	233 52	_	2	5	1
Vermont	-	3	_	_	_	_	_	15	56	61	_	1	1	_
Massachusetts	9	39	-	-	1	-	-	176	1,032	1,284	11	52	49	-
Rhode Island Connecticut	3 2	8 20	-	1	-	-	_	42 158	141 883	189 913	3	17	2 17	_
	85	309	_	1	7	-	-	2 200	11 621		E 4	217		
MIDDLE ATLANTIC	19	309	_	-	-	_	_	2,290 239	11,521 992	9,183 1,237	56 12	317 24	430 26	3
New York City	24	104	-	-	6	-	-	1,024	6,408	3,798	32	201	291	_
New Jersey	26	98	-	1	1	-	-	523	1,540	1,636	2	43	55	-
Pennsylvania*	16	70	-	-	-	-	-	504	2,581	2,512	10	49	58	-
EAST NORTH CENTRAL	93	361	2	-	4	-	-	2,235	13, 321	15.858	39	240	229	11
Ohio*. Indiana	37 7	81 35	1	_	1	_	-	619 175	3,840 705	4,344 1,151	3	61 5	50 7	- 1
Illinois	28	132	_	_	1	_	_	635	4,627	5,797	32	142	127	-
Michigan	15	93	-	-	2	-	-	590	2,987	3,087	3	23	33	-
Wisconsin	6	20	1	-	-	-	-	216	1,162	1,479	1	9	12	10
WEST NORTH CENTRAL	14	83	1	-	2	-	2	928	5,149	4,960	7	43	56	45
Minnesota	2	16	-	-	1	-	-	188	853	1,038	4	15	16	24
lowa	1	11	-	-	-	-	-	85	589	655	1		4	10
Missouri North Dakota	11	41	1	_	1	-	2	443 12	2,322 71	1,852 73	2	16	28	2
South Dakota		2	_	_	_	_	_	27	143	166	_	-	_	_
Nebraska	-	1	-	-	_	-	-	90	408	418	-	1	4	-
Kansas	-	11	-	-	-	-	-	83	763	758	-	7	4	2
SOUTH ATLANTIC	130	638	4	-	4	-	-	3,904	21,271	22,777	87	632	766	25
neismate _#	4	4	-	-	-	-	_	51	333	327	4	6 47	8 63	_
Maryland District of Columbia	21 7	92 24	-	-	-	-	-	430 201	2,452 1,218	3,279 1,271	6 17	75	66	_
Virginia	5	83	_	_	I	_	_	516	2,359	2,726	12	54	67	1
West Virginia	7	23	-	-	_	-	-	66	31.6	3 0 3	-	-	2	_
North Carolina*	24	111	-	-	-	-	-	579	3,123	3,495	11	95	134	_
South Carolina Georgia*	16	61 72	2 2	-	_	-	-	681 565	2,164 4,041	2,096 4,098	3	32 96	47 88	23
Florida	35	168	-	_	3	-	-	815	5,265	5,182	34	227	291	1
EAST SOUTH CENTRAL	71	213	-	_	_	_	3	1,879	7,726	8,570	34	88	97	1
Kentucky	20	41	-	-	-	-	1	263	1,097	1,088	3	9	15	-
Tennessee*	26	83	-	-	-	-	2	691	3,306	3,408	10	30	46	1
Alabama	14	62 27	-	-	_	_	-	572 353	1,903 1,420	2,234 1,840	5 16	15 34	18 18	_
WEST SOUTH CENTRAL	76	237	1	_	-	_	2		12,930	15,463	48	294 7	285 9	88
Arkansas Louisiana*	2 12	18 67	-	_	-	_	-	216 455	1,052 1,669	L,356 2,222	4	60	64	5
Uklahoma	13	27	-	-	-	-	1	228	1,031	1,347	1	10	14	24
Texas	49	125	1	-	-	-	1	1,243	9,178	10,538	40	217	198	59
MOUNTAIN	18	51	1	2	2	_	-	818	3,764	3,848	5	48	80	3
Montana*	1	1	1	-	-	-	-	61	227	182		-	1	3
Idaho	3	6	-	-	-	-	-	47	200	176	-	2	-	-
Wyoming Colorado	_	3	-	-	-	-	_	46 201	119	85 926	2	5 18	4 32	-
New Mexico	2	4	_	_	1	_	_	201 165	952 488	926	-	8	32	_
Arizona	12	27	_	-	_	-	_	163	1,067	1,054	-	12	19	-
Utah Nevada	-		-	1	1	-	-	37 98	189 522	263 301	-	2 1	1	-
		_	-											
PACIFIC	116	432	-	2	7	_	-	3,205 330	15,599 1,214	14,453	105	473	563 15	36
Oregan	3	16	-	_	_	_	_	188	1,141	1,081	1	17	14	_
California	98	334		2	7	-	-	2,562	12,509	11,386	99	447	525	30
Alaska *	15	- 73	-	-	-	_	-	54 71	425 310	406 315	- 5	1	- 9	-
	13	63	_	-										
Guam*	NA	-	-	NA	-	NA	-	NA	-	51	NA	-	-	-
Puerto Rico Virgin Islands*	17	44	-	-	-	-	-	84	291	236	13	66	41	1
	-		-	-	-	-	-	2	14	33	-	-	14	-

NA: Not available *Dalayed reports: TB: Ohio delete 12, N. Car. delete 8, Ga. add 7 Mont. add 1 (1976), Dela. add 1, N. Car. delete 1, La. delete 1, Alaska add 8, Guam add 5 (1977); Typhoid fever: Pa. delete 1 (1976); GC: La. delete 2, Wash add 106 mil., Guam add 21 civ., V.I. add 3 civ. (1977); Syphills: Ups. N.Y. add 3 (1976), N. Hamp. add 2 mil., Pa. delete 1 civ., La. delete 1 civ. Wash add 10 civ. (1977); An. rabies: Ga. add 4 (1976), Tenn. add 1 (1977).

Table IV Deaths in 121 United States Cities* Week Ending February 5, 1977 – 5th Week

		A	LL CAUS			Pneu- monia	y 5, 1977 — 5111 Wee			ALL CAUS	ES		Pneu- monia
REPORTING AREA	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	and Influenza ALL AGES	REPORTING AREA	ALL AGES	65 Years and Over	45—64 Years	2544 Years	Under 1 Year	and Influenza ALL AGES
NEW ENGLAND	686	443	171	35	19	38	SOUTH ATLANTIC	1,294	786	343	79	50	41
Boston, Mass	185 45	117	47	8	5	10	Atlanta, Ga.	172	102	41	13	9	6
Bridgeport, Conn Cambridge, Mass	35	31 27	11 5	1 3	1	1	Baltimore, Md Charlotte, N. C	2 20 52	125 31	71 9	12 5	6 4	2 1
Fall River, Mass.	30	24	6	-	-	-	Jacksonville, Fla.	119	79	26	5	6	4
Hartford, Conn	60	29	19	5	4	2	Miami, Fla.	1 20	79	35	5	-	3
Lowell, Mass.	25	14	9	2	-	1	Norfolk, Va	85	45	24	5	9	3
Lynn, Mass. New Bedford, Mass.	26 32	19 24	6 6	1	-	-	Richmond, Va.	83	45	24	7	5	6
New Haven, Conn	47	29	10	5	2	-	Savannah, Ga St. Petersburg, Fla	47 87	29 75	16 8	1	1	2
Providence, R.I.	70	40	19	2	4	8	Tampa, Fla.	99	69	19	6	3	7
Somerville, Mass.	12	8	3	ĩ	-	-	Washington, D. C.	153	74	55	14	5	2
Springfield, Mass Waterbury, Conn	43 34	27 26	12 6	2 2	2	3	Wilmington, Del	57	33	15	3	2	-
Worcester, Mass.	42	28	12	2	-	2							
• • • • • • • • • • • • • • • • • •				-		-	EAST SOUTH CENTRAL	7 49	432	200	43	41	40
							Birmingham, Ala.	1 37	69	44	11	7	3
	2,919		721	171	93	139	Chattanooga, Tenn	76	44	19	8	-	11
Albany, N. Y Allentown, Pa	39 27	17 19	10 6	6 2	4	2 3	Knoxville, Tenn	64 107	44	15	1	17	- 6
† Buffalo, N. Y.	123	74	34	5	5	9	Louisville, Ky Memphis, Tenn	167	73 90	23 46	3 8	13	4
Camden, N. J.	42	29	11	-	1	1	Mobile, Ala.	56	29	14	6	5	1
Elizabeth, N. J.	33	22	11	-	-	2	Montgomery, Ala.	50	27	14	1	4	3
Erie, Pa	28	20	5 7	1	-	1	Nashville, Tenn	92	56	25	5	4	12
Jersey City, N. J Newark, N. J	31 70	19 32	19	2 8	2	32							
	1,529		348	97	51	51	WEST SOUTH CENTRAL	1,236	709	311	89	67	47
Paterson, N. J.	39	21	11	3	1	4	Austin, Tex	48	30	8	5	3	2
Philadelphia, Pa	393	235	1 19	19	10	28	Baton Rouge, La.	35	23	3	2	5	1
Pittsburgh, Pa	191	113	62	5	5	9	Corpus Christi, Tex.	48	24	11	2	8	1
Reading, Pa	33 127	24 85	7 25	17	1 5	- 15	Dallas, Tex	163	91	39	15	8	2
Schenectady, N. Y	27	16	6	4	1	1	Fort Worth, Tex.	52 70	25 50	13 16	5 2	4	6
Scranton, Pa.	48	32	15	1	-		Houston, Tex.	287	133	93	29	15	2
Syracuse, N. Y.	64	47	10	5	1	-	Little Rock, Ark	67	37	18	3	5	6
Trenton, N. J.	23	11	8	4	-	2	New Orleans, La.	187	103	64	10	6	-
Utica, N. Y	19 33	15 . 29	3	1	-	1 5	San Antonio, Tex Shreveport, La	131 52	89 36	27	6	3	10 5
, a. t		27	•			,	Tuisa, Okia.	96	68	10	5 5	2 8	12
EAST NORTH CENTRAL	2,488	1.484	693	136	83	65							
Akron, Ohio	84	58	18	2	3	-	MOUNTAIN	493	289	133	37	19	26
Centon, Ohio	51	33	13	2	2	-	Albuquerque, N. Mex	65	38	17	8	1	6
Chicago, III.	619	333	192	43	26	13	Colorado Springs, Colo.	34	23	7	2	1	3
Cincinnati, Ohio Cleveland, Ohio	190 239	119 130	59 79	6 15	5	5 2	Denver, Colo Las Vegas, Nev	96 20	58	29	6	1	5 3
Columbus, Ohio	92	54	26	5	4	3	Ogden, Utah	20 15	12	6 5	2 1	-	2
Dayton, Ohio	118	70	37	3	5	6	Phoenix, Ariz.	123	70	36	6	7	ĩ
Detroit, Mich.	283	169	71	27	4	8	Pueblo, Colo.	20	11	5	2	1	3
Evansville, Ind.	37	27	5	2	1	-	Salt Lake City, Utah	46	26	10	4	4	2
Fort Wayne, Ind.	84 21	54 12	19 7	2 1	2 1	2 2	Tucson, Ariz	74	44	18	6	4	1
Grand Rapids, Mich	42	31	10	1	-	3							
Indianapolis, Ind.	167	102	34	12	11	2	PACIFIC	1,813	1,183	404	110	63	36
Madison, Wis	21	14	5	-	-	3	Berkeley, Calif	12	8	3	1	-	-
Milwaukee, Wis	134	89	33	4	4	3	Fresno, Calif	56	34	14	5	2	1
Peoria, III	83	48 13	22 9	3	4 -	2 8	Glendale, Calif	34	24	5	3	_	-
Rockford, III	24 44	30	7	3	3	3	Honolulu, Hawaii	60 94	35 68	18 19	3	2 1	-
Toledo, Ohio	95	59	29	4	ĩ	-	Los Angeles, Calif.	658	434	144	45	15	16
Youngstown, Ohio	60	39	18	1	1	-	Oakland, Calif.	67	39	13	5	8	
							Pasadena, Calif Portland, Oreg	37	30	6	-	1	- 3
WEST NORTH CENTRAL	778	519	171	44	31	27	Sacramento, Calif.	1 21 74	77 50	23 13	5 3	10 7	3
Des Moines, lawa	64	48	10	3	1	4	San Diego, Calif	125	81	30	5	4	-
Duluth, Minn	30	22	4	2	1	3	San Francisco, Calif	168	98	48	16	4	-
Kansas City, Kans	38	21	10	5 3	1 3	 5	San Jose, Calif Seattle Wash	70	42	18	5	2	1
	121 30	85 24	28 4	_	-	1	Seattle, Wash	146	99 37	35	4	- 4	5
Kanses City, Mo Lincoln Nebr	20		20	7	10	3	Tacoma, Wash.	44	27	3 12	3	2	-
Lincoln, Nebr	102	64	20										
	102 101	59	29	8	- 4	ī		••			-	•	
Lincoln, Nebr Minneapolis, Minn Omaha, Nebr St. Louis, Mo	101 169	59 111	29 38	8 12	4 6	1 4							
Lincoln, Nebr Minneapolis, Minn Omaha, Nebr	101	59	29	8	4	1	TOTAL	12,456			744	466	459

*By place of occurrence and week of filing certificate. Excludes fetal deaths. † Estimate based on average percent of divisional total.

The Morbidity and Mortality Weekly Report, circulation 52,000, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs 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.

telegraphs to CDC by state nearth departments. The reporting week concludes at close or business on Friday; complied data on a national dasis are orticially released to the public on the succaseding Friday. The editor welcomes accounts of interesting cases, outbrasks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Canter for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333. Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn.: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

Current Trends

Surveillance of Childhood Lead Poisoning - United States

During the transitional quarter of fiscal year 1976 (July 1, 1976-September 30, 1976) 60 childhood lead poisoning prevention programs reported screening 102,271 high-risk children (Table 2). By comparison 98,328 children were screened by 67 programs during the first quarter (July 1, 1975-September 30, 1975). Of the children screened, 18,933 required pediatric management; of these, 3,630 were in Classes III and IV.* Chelation therapy was administered to 1,260 children. Over the past 5 quarters there has been a steady increase in the proportion of children found to be in Class IV – the category which indicates "extremely elevated" blood levels (\geq 80 mg/100ml by blood lead test, \geq 190 mg/100 ml by the erythrocyte protoporphyrin [EP] test). The number of children in this category ranged from 5% in the first quarter to 10.1% in the transitional quarter.

The ratio of dwelling units with the environmental hazards reduced to dwelling units found with lead has remained relatively unchanged over the past 5 guarters.

Reported by the Environmental Health Services Div, Bur of State Services, CDC.

*Lead Poisoning Categories in children are defined in MMWR 25(9): 66, 1975.

 TABLE 2. Results of screening in childhood lead poisoning control projects – United States

 Transitional Quarter of Fiscal Year 1976 (July 1, 1976 to September 30, 1976)

Augusta Mag. Lawali Mala Lawali Mala Lawal	1			NUME	BER OF CHI	LDREN		NUMBER	OF DWEL	LINGS
Projects Screened Total Class II III & IV Total Chas II III & IV			Requirin	g Pediatric M	anagement					1
Projects Screened Total Clastes To						recharric wanagement				
Aussense 7.444 1202 247 3.04 8.44 5.1 280 280 280 Lawell V. Main Difference M. Conn. 1.040<	Projects	Screened	Total		Classes	Total		Inspected	with	Reduce
NY. 1.7500 1.7500 1.00000 1.00000 1.00000<	Augusta, Me.	7 966			305	845	5	20	279	242
NY. 1.7500 1.7500 1.00000 1.00000 1.00000<	owell, Mass.		155	-43	13	291	-6	37	40	-21
NATURAL 1.7500	New Haven, Conn.	1,086	342	122	42	327	23	173	85	10
NATURAL 1.75000 1.750	tamford, Conn. Vaterbury, Conn.	898	448 134	42	14	545	64	133	104	14
Name 1 2000 1 1000<	UMULATIVE FY 76	14,482 66,530	2,290	3,342	470	3.045 14,367	124 502	1.925	4,980	4,50
Name Description Description <thdescription< th=""> <thde< td=""><td>lbany, N.Y. amden, N.J.</td><td></td><td></td><td></td><td></td><td>100</td><td></td><td>28 11</td><td></td><td>1</td></thde<></thdescription<>	lbany, N.Y. amden, N.J.					100		28 11		1
Instance M.d. 5.7524 3000 1400 000	oboken N.J.	1,739	549	156		203	18	5382	37	
Instance M.d. 5.7524 3000 1400 000	ew York City ewark, N.J.	18:157*	2,002*	1.292*	491*	7.500*	642	426	259	201
Name Description Description <thdescription< th=""> <thde< td=""><td>aterson, N.J.</td><td>9557</td><td>210</td><td>47</td><td>29 47 21</td><td>236</td><td>28 38</td><td>103</td><td>50 84 28</td><td>2</td></thde<></thdescription<>	aterson, N.J.	9557	210	47	29 47 21	236	28 38	103	50 84 28	2
Instance M.d. 5.7282 3000 1400 1000 8004 500 1283 1000 Balance 1.700 1.400<	ensselaer, N.Y.	1,218	122	54	23	273	10	355	24	
Name Description Description <thdescription< th=""> <thde< td=""><td>UMULATIVE FY 76</td><td>111112</td><td></td><td>Conc. C (1997) (1997)</td><td>10/2012/02/2012</td><td>19:413</td><td>and the second s</td><td></td><td></td><td>2,52</td></thde<></thdescription<>	UMULATIVE FY 76	111112		Conc. C (1997) (1997)	10/2012/02/2012	19:413	and the second s			2,52
Corrison 1.142 855 455 400 4303 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 100 6003 100	Altimore, Md. nester, Pa.	5.794	306	146	106	689 814	59	124	100	
Corrison 1.142 855 455 400 4303 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 6003 100 100 6003 100	orfolk, Va. hiladelphia Pa	1.186	136	325	57	159	250	1.038	484	5
Consisting 1.1400 285 455 400 4000 4000 4000 10000 1000 1000	ashington, D.C.	1 664	617	107	28	1,373	33	114	103	
Consisting 1.1400 285 455 400 4000 4000 4000 10000 1000 1000	REGION III TOTAL UMULATIVE FY 76	17.028	12:363		434	4,418	202	1.741	975	6,41
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Class II and Classes III & IV defined in CDC Statement, increased Lead Absorption and Lead Polsoning in Young Children, March 1975. *Estimated

Current Trends

Influenza - United States

Outbreaks of confirmed influenza B in schools in 1977 have now been reported from Vermont, Connecticut, New York, New Jersey, Pennsylvania, Michigan, Mississippi, Iowa, North Carolina, South Carolina, Tennessee, Georgia, Louisiana, Texas, and Colorado. Similar outbreaks, without laboratory confirmation, have been reported from Alabama, Arkansas, and Delaware. Disease activity is presently most pronounced in the Middle Atlantic, Southeastern, and Gulf States.

The Dade County (Florida) Health Department reported an outbreak of A/Victoria influenza which began January 18 and affected 59 of 176 residents and 15 of 100 staff members of a local nursing home. Twenty-two patients were hospitalized, and 5 deaths occurred. The Florida Health Department Virology Laboratory isolated 4 A/Victoria/3/75-like viruses from ill patients. Among patients* the attack rate in recipients of bivalent vaccines was 7%

*A case was defined as a person with febrile upper respiratory illness in the period January 18-February 4, 1977.

(3/41), while the rate in nonvaccinated patients was 41% (56/135) (vaccine efficacy = 83%). There is presently no other indication of significant influenza activity in the Miami area.

This is the first reported outbreak of A/Victoria influenza in the United States this season. During the past 2 months, only 4 isolates of A/Victoria-like virus from sporadic cases have been made in this country.

Figures 2 and 3 show pneumonia and influenza deaths and deaths due to all causes for 121 U.S. cities through February 5, 1977. They indicate that there is no excess mortality due to pneumonia and influenza in the United States.

Reported by R Morgan, MD, MPH, Dade County (Fla) Health Dept; E Buff, Virology Laboratory, EWP Smith, MD, Acting State Epidemiologist, Florida Dept of Health and Rehabilitative Services; State Epidemiologists from Alabama, Arkansas, Connecticut, Dela ware, Georgia, Iowa, Mississippi, South Carolina, and Vermont; National Influenza Immunization Program; Respiratory Virology Bi, Virology Div, Bur of Laboratories, Field Services Div, Viral Diseases Div, Bur of Epidemiology, CDC.



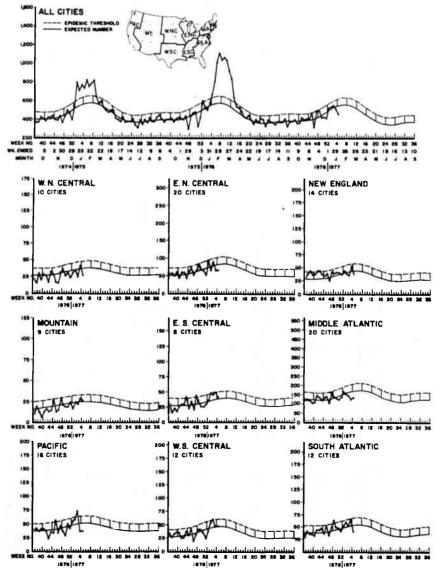
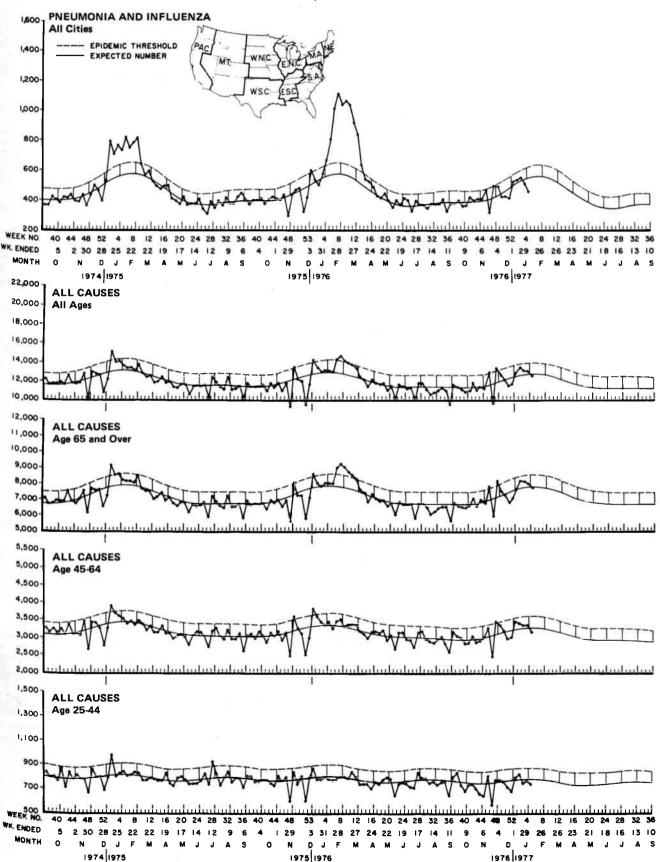


FIGURE 3. Mortality in 121 United States cities



Follow-up on Guillain-Barre Syndrome - United States

Fifty states, the District of Columbia, and 1 United States territory have reported a total of 685 cases of Guillian-Barre syndrome (GBS) to CDC in the period October 1, 1976-February 3, 1977. There have been 354 cases in influenza vaccine recipients (12 of whom received a non-A/ New Jersey influenza vaccine) and 314 cases in non-recipients. Seven additional patients received vaccine after their onset of GBS. The vaccine status for 10 cases is unknown. Eighteen states have reported a total of 28 deaths for an overall case fatality ratio of 4.0%. Fourteen of these were in influenza vaccine recipients and 13 in persons with no history of vaccination. In 1 case vaccination status is unknown.

GBS attack rates by 1-week periods after vaccination for 22 states for the period October 6-December 21, 1976, are shown in Table 3. The highest attack rates observed were during weeks 2 through 4 after vaccination.

It should be noted that the attack rates of GBS in Table 3 are for recipients of vaccine containing either A/New Jersey alone or A/New Jersey and A/Victoria components; these recipients were from the 22 states from which adequate vaccine history and vaccine distribution data are available. The rates do not include the 8 GBS patients who received B/Hong Kong vaccine alone. Adequate vaccine

On February 8, 1977, Secretary of Health, Education, and Welfare Joseph A. Califano, Jr. announced the following recommendations:

1. The moratorium on bivalent influenza vaccine (A/New Jersey and A/Victoria) will be lifted. It is recommended that bivalent vaccine be given to high-risk persons as previously defined by the Advisory Committee on Immunization Practices (ACIP). Special attention should be given to persons residing in nursing homes and health care institutions.

For the general population, discretionary use of bivalent vaccine will be permitted for individuals most likely to

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distribution figures are not available for the influenza B vaccine; hence rates of GBS for recipients of that vaccine cannot be accurately determined. However, the possibility of an association between influenza B vaccine and GBS exists and should be known both to individuals to be immunized and to physicians.

TABLE 3. Guillain-Barre syndrome attack rate by 1-week periods after vaccination, 22 States*, October 6-December 21, 1976

Week - Period After Vaccination	Vaccinated Cases	Attack Rate		
1	15	.94 2.09		
2	32	2.09		
3	45	3.12		
4	19	1.54		
5	8	.74		
6	3	.35		
7	3	.46		
8	1	.21		
9	1	.37		

*Alabama, Arizona, Colorado, Delaware, Florida, Georgia, Hawa Idaho, Kansas, Maryland, Missouri, Nebraska, New Jersey, M Mexico, Ohio, Oklahoma, Oregon, Rhode Island, South Dako Utah, Michigan, Wyoming

**Attack rate in cases per million person-weeks of risk

Reported by the National Influenza Immunization Program and Viral Diseases Div, Bur of Epidemiology, CDC.

Influenza Vaccine Recommendations

be exposed, such as those who care for high-risk ind^{ivi} duals.

- The moratorium on monovalent B/Hong Kong influen²⁸ vaccine will be lifted.
- The moratorium on monovalent A/New Jersey influenza vaccine will remain in effect. Careful surveillance will continue, and appropriate action will be taken at the first sign of an A/New Jersey influenza outbreak.

A new informed consent form – setting forth the risk of Guillain-Barre following influenza immunization – being prepared and should be signed by potential vaccine before receiving influenza vaccine.

