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Epidemiologic Notes and Reports

Viral Gastroenteritis — Pennsylvania

Two recent waterborne outbreaks of gastroenteritis totaling at least 423 cases have occurred in Pennsylvania summer camps. Serologic evidence from 6 patients has implicated parvovirus-like agents as the cause.

Outbreak 1: In June 1978, CDC was notified of a gastrointestinal illness occurring in visitors at a camp in northeastern Pennsylvania. Fifty-seven of the 74 groups visiting this camp between May 1 and June 16 were questioned, and 13 reported illness in over 15% of their members. A total of 350 persons were reported to have been ill. All but 1 of the 13 groups with illness stayed at the camp between either May 12 and May 21 or June 5 and June 14. The attack rate among the 8 groups that had illness and also completed questionnaires ranged from 17%-73%.

Serum and stool specimens were collected from the members of the last group that visited the camp and reported illness. Studies for bacterial pathogens were negative, but 3 of 5 ill persons had a 4-fold titer rise in antibody to a Norwalk-like agent; 2 controls were negative. The illness in this group was characterized by vomiting (81%), abdominal pain (74%), nausea (67%), and diarrhea (56%). A questionnaire administered to this group showed no association between illness and performing activities, eating food, occupying a particular cabin, or drinking water from a stream that flows through the camp. However, a significant association was found between quantity of camp water consumed and illness. A similar questionnaire, administered to 2 other ill groups, showed no association between illness and activities performed, food eaten, cabin occupied, or exposure to stream water. In 1 of the 2 groups, however, a significant association between quantity of camp water consumed and illness was shown.

The initial study of the water system demonstrated the presence of coliforms (38/dl), inadequate chlorination (0 ppm), and several sites of possible contamination. These problems were corrected, and no further illness has been reported from the camp.

Outbreak 2: On July 27, 1978, an outbreak of gastroenteritis was reported from another summer camp in northeastern Pennsylvania. The cases were characterized by abdominal pain (80%), nausea (73%), and vomiting (53%). Headache (47%), diarrhea (38%), and chills (38%) were also prominent findings. The median duration of illness was 2 days.

Review of the infirmary records revealed 73 cases of gastroenteritis during the first session of the summer camp, which lasted from June 6-July 23. This is approximately 10 times the rate reported from last year. A sharp increase in cases began 48 hours after the arrival of the second-session campers. As determined from questionnaire data, the attack rate in the second session was 61.5% (120/195). Food was not incriminated. However, consumption of 5 or more glasses a day of water or water-containing beverages was sig-

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Viral Gastroenteritis - Continued

nificantly associated with illness (p<.05). Bacterial samples from the camp water supply revealed fecal coliforms from well water. Although the camp water supply was chlorinated, tests for residual chlorine level revealed 0 ppm until July 28, when an adequate chlorination level was achieved. No new cases have been reported since July 29.

Laboratory studies of stools from 10 patients and 10 controls revealed no bacterial pathogens. Three of 3 paired serum specimens, however, showed 4-fold or greater rises to Norwalk agent by radioimmunoassay. Electron microscopy of stools is pending. Reported by M van Ouiverkerk, South Brunswick Township, New Jersey; R Altman, MD, State Epidemiologist, H Ragazzoni, DVM, W Weisgarber, New Jersey Dept of Health; J LaCoe, Pennsylvania Dept of Environmental Resources; D Arbott, RN, M Castello, RN, M Grumbine, RN, WE Parkin, DVM, DrPH, State Epidemiologist, I Ratliff, RN, Pennsylvania Dept of Health; Enteric Virology Br, Virology Div, Bur of Laboratories, Environmental Health Services Div, Bur of State Services, Enteric Diseases Br, Bacterial Diseases Div, Enteric and Neurotropic Viral Diseases Br, Viral Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: Parvovirus-like agents (for example, Norwalk, Montgomery County, Hawaii) have been suspected of causing waterborne outbreaks of gastroenteritis (1). The agents responsible for 2 outbreaks previously reported have been confirmed as Norwalk-like viruses (2,3). These 2 Pennsylvania outbreaks further illustrate that parvovirus-like agents may contribute to gastrointestinal disease. Newer techniques, such as radioimmuno-assay, have made diagnosis of outbreaks easier as long as proper specimens have been collected.

These 2 outbreaks also substantiate previous reports that a high attack rate, predominance of upper gastrointestinal symptoms, and a relatively short duration of illness are compatible with viral gastroenteritis (2,4).

References

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Foodborne Marijuana Outbreak — Colorado

On April 27, 1978, 9 of 22 persons who had attended an office coffee party became ill with muscular incoordination (9 persons), dizziness (8), difficulty concentrating (8), confusion (7), difficulty walking (7), dysarthria (7), dry mouth (7), dysphagia (5), blurred vision (5), and vomiting (1). Three persons consulted a physician. Food-specific attack rates implicated a bundt cake as a cause of the symptoms. Illness began 15-120 minutes after consumption of the cake. Most symptoms resolved after several hours, but 2 persons manifested extreme excitability and paranoia for about 3 weeks.

An interview with the baker of the cake provided no information on the cause of the illness. The remainder of the cake had disappeared, and the platter on which it was served had been washed. However, thin-layer chromotographic analysis of a few crumbs scraped from the knife used to slice the suspect cake and 2 other cakes served at the party indicated the presence of tetrahydrocannabinol (THC), the major active ingredient of marijuana. Analysis of urine collected 3 days after the episode revealed THC in 3 of 4 specimens tested. All 9 patients denied prior marijuana use.

Reported by WS Dunn, SW Ferguson, PhD, K Kelley, S Terry, A Wislocki, Colorado Dept of Health, in the Colorado Disease Bulletin VI(20), May 20, 1978; Special Studies Br, Chronic Diseases Div, Bur of Epidemiology, CDC.

Foodborne Marijuana Outbreak — Continued

Editorial Note: The pharmacologic effects of marijuana vary with the dose, cannabinoid content and concentration, route of administration, and prior exposure of the subject. The concentration of ℓ - Δ °-tetrahydrocannabinol, the primary active ingredient, varies in different parts of the plant and in plants of different geographic origins (1). Following oral ingestion, effects usually begin in 30-60 minutes, peak after 2-3 hours, and may persist another 2 hours (2). In spite of the fact that gastrointestinal absorption is complete, ℓ - Δ °-THC is nearly 3 times more potent when inhaled than when swallowed, in part because the liver and the lungs produce different metabolites (2,3). Metabolites can be found in the urine for several days (2).

Persons not previously exposed to marijuana respond differently than persons who have had experience with the drug. For example, non-users are less likely to have a strong subjective experience (a "high") (4). The severe and somewhat unusual symptoms reported in this episode may be due to the dose ingested, the lack of experience with marijuana of the ill persons, or the presence of another unidentified contaminant.

References

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Cutaneous Myiasis in Participants of an Archaeologic Expedition in Guatemala

Between April 2-12, 1978, a group of 25 persons participated in an expedition to several archaeologic sites in the lowland jungle region of the Peten in northern Guatemala. Following the trip 3 persons developed cutaneous myiasis, or botfly infestation. These included a 37-year-old female airline employee from Albany, New York, a 30-year-old male naturalist from Nashville, Tennessee, and a 26-year-old male student from Europe, who remained in Guatemala City.

Lesions in all cases were multiple. The airline employee had 4, the naturalist 6, and the student 2. Five were on the upper extremities; 2 were on the lower extremity, 3 on the trunk, 1 on the buttock, and 1 on the scrotum. Depending upon the case, lesions were first distinguished from numerous minor insect bites, cuts, and scratches 4 days to several weeks after the patients had left the jungle area. Initially the maculopapular lesions were erythematous and intensely pruritic; they developed into somewhat nodular furuncles, 1-2 cm in diameter, with a volcano-like appearance. They became episodically painful, with sharp, needle-like pains and a sensation of "something moving" within. Most lesions were centrally necrotic, and drained small amounts of bloody, serous, or purulent fluid. When an opening was occluded, a tiny, white, worm-like organism would appear. One patient was found to have transient regional lymphadenopathy. Generalized symptoms, other than anxiety, were absent. Total and differential white blood cell counts and eosinophil counts were within normal limits on 3 occasions on the 1 patient tested. One patient was diagnosed as having probable onchocerciasis and was hospitalized in isolation for 10 days.

The lesions resisted antibiotics, when used, and persisted for up to 5 weeks until surgical removal, in 1 case, or self-treatment by occlusion and subsequent expulsion of

Cutaneous Myiasis — Continued

the living parasite. Fly larvae collected from the lesions of 2 patients were identified as *Dermatobia hominis*.

Reported by J Bistowish, MD, Metropolitan Health Dept, Nashville; RH Hutcheson Jr, MD, State Epidemiologist, Tennessee State Dept of Public Health; R Athanasiou, PhD, MD, J Maguire, MD, St Peter's Hospital, Albany, New York; Bur of Tropical Diseases; Field Services Div, Parasitic Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: The human botfly (or warble fly), D. Hominis, ranges from southern Mexico to northern South America. Infestation is indirect since the female fly deposits her eggs on various biting arthropods, including mosquitos, which serve as mechanical carriers of the eggs. Lesions develop on exposed areas of the body frequently, but not exclusively, as in 2 of these cases. Under jungle conditions virtually all areas of the body are occasionally exposed to mosquitos.

Lesions of myiasis must be distinguished from other tropical diseases. They are easily confused with onchocerciasis or bacterial infection. Cutaneous myiasis should be suspected in returnees from Central and South America who present with persistent, pruritic, and occasionally painful, furuncular lesions, particularly with central necrosis and bloody, serous, or purulent discharge. Preferred treatment includes incision and extraction of the larvae. Subsequent healing is generally rapid. Since the usual vector is a mosquito, the use of insect repellent, protective clothing, and screens or bed nets should offer at least partial protection from this parasitic infection as well as onchocerciasis and malaria.

TABLE I. Summary — cases of specified notifiable diseases, United States [Cumulative totals include revised and delayed reports through previous weeks.]

	41st WE	EK ENDING		CUMU	LATIVE, FIRST 4	II WEEKS	
DISEASE	October 14, 1978	October 15, 1977*	MEDIAN 1973-1977**	October 14, 1978	October 15, 1977*	MEDIAN 1973-1977**	
Aseptic meningitis	173	135	111	4,453	3,650	3,104	
Brucellosis	1	3	4	120	180	180	
Chickenpox	582	628	610	125,446	162,809	146,578	
Diphtheria	1	1	ı	64	73	147	
Encephalitis: Primary (arthropod-borne & unspec.)	13	57	34	735	859	1,146	
Post-infectious Post-infectious	7	1	3	167	168	225	
Hepatitis, Viral: Type B	242	309	219	11,608	12,992	9.083	
Туре А	586	434	684	22,745	24,129	27.482	
Type unspecified	196	142	1 007	6.971	6,938	7 21,402	
Malaria	8	10	10	564	436	339	
Measles (rubeola)	104	90	103	24.279	53,282	24,543	
Meningococcal infections: Total	36	17	19	1.895	1.394	1,164	
Civilian	36	17	19	1.871	1.385	1.139	
Military	_	_	_	24	9	25	
Mumps	128	231	403	13.873	16.807	45,987	
Pertussis	40	54		1,622	1,354		
Rubella (German measles)	39	64	87	16,703	18,935	15.122	
Tetanus	2	2	1	66	58	71	
Tuberculosis	456	543	543	23,506	23.793	24,692	
Tularemia	3	3	3	101	134	123	
Typhoid fever	7	13	13	390	309	332	
Typhus fever, tick-borne (Rky. Mt. spotted)	14	11	ii	943	1.047	759	
Venereal diseases:					.,		
Gonorrhea: Civilian	19.820	20,558	20.558	788.398	783.457	783.457	
Military	320	455	455	20,037	21,461	23,367	
Syphilis, primary & secondary: Civilian	476	305	381	16.842	16,146	19,022	
Military	5	2	6	240	238	272	
Rabies in animals	59	66	58	2,447	2.457	2.398	

TABLE II. Notifiable diseases of low frequency, United States

	CLIR	A. 1978	pr. C.	CUM. 1978
Anthrax		5	Poliomyelitis: Total (Va. 1)	3
Botulism	1	61	Paralytic	li
Cholera		9	Psittacosis 1 (Calif. 1)	84
Congenital rubella syndrome †		23	Rabies in man	-
Leprosy 1	1	22	Trichinosis	43
Leptospirosis (Oreg. 1, Hawaii 1)		49	Typhus fever, flea-borne (endamic, murine) f	33
Plague	i	7	Typical toroi, that both tendente, marrie,	

^{*}Delayed reports received for calendar year 1977 are used to update last year's weekly and cumulative totals.

^{**}Medians for gonorrhea and syphilis are based on data for 1975-1977.
†The following delayed reports will be reflected in next week's cumulative totals: Cong. rubella syn.: Calif. 1; Leprosy: Calif. 2; Psittacosis: Calif. 1; Typhus, murine: Calif. 1.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending October 14, 1978, and October 15, 1977 (41st week)

	ASEPTIC	BRU-	CHICKEN				NCEPHALI	TIS	HEPATI	TIS (VIRA	L), BY TYPE		
REPORTING AREA	MENIN- GITIS	CEL.	POX	DIPHT	HERIA	Pri	mary	Post-in- fections	В	A	Unspecified	MAI	ARIA
	-1978	1978	1978	1978	CUM. 1978	1978	1977*	1978	1978	1978	1978	1978	CUML 1978
UNITED STATES	173	1	582	1	64	13	57	7	242	586	196	8	564
NEW ENGLAND	4	_	§1	_	-	_	1	-	10	24	13	_	28
Maine	-	-	28	-	-	-	-	-	-	6	-	-	1
N.H.† Vt.	_	_	3 2	-	_	_	_	_	-	1	-	=	4
Vi. Vass.	2	_	23		_	_	1	_	1 4	1 5	1 11		7
R.I.	1	_	21	-	_	-	-	-	-	4	_	-	5
Conn.	1	-	14	-	-	-	-	5	5	7	1	-	11
MID. ATLANTIC Jostate N.Y.	42 6	_	22 7	Ξ	1_	-	3	-	29 2	25	13 1	1	118 18
V.Y. City	19	_	ģ	_	1	_	ı	_	14	4	4	_	52
N.J. †	12	_	NN	-	-	-	-	_	13	17	8	-	22
Pa.	5	-	6	-	-	-	2	77	-	-	-	1	26
.N. CENTRAL	2 C	-	157	-	-	5	17	1	27	69	14	-	39
Ohio † nd.†	1	_	8	_	-	2	9	1 -	13	21 6	2	-	5
II.	_	=	12	_	=	Ξ	2	_	3	14	4	=	14
fich.	17	_	59	-	-	1	3	-	6	21	6	-	15
Vis. T	2	-	78	-	-	2	1	-	2	7	2	-	2
V.N. CENTRAL	9	-	42	-	2	-	-	-	8	61	8	-	22
finn. owa	_	_		_	_	_	_	_	5	32	-	Ξ	4
owa No.	9	_	23 1	_	1	_	_	_	2	2 19	1	Ξ	
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ATLANTIC	27	_	51	_	_	3	20	6	36	79	29	2	98
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ld.	3	-	20	7	12 <u>7</u> 1		7	-	110	_	-	1	22
P.C.	-	-	1	-	-	-	-	-	-	1	-	-	2
/a.t V.Va.	5	_	. 4	_	-	1	-	_	8	7	4	_	20
I.C.	_	_	17 NN		_	2	6	_	1	3	_	=	1 10
i.C.	1	_	-	_	-	_	_	_	í	5	2	_	- 4
a. t	_	-	_	-	_	-	-	-	3	18	_	1	8
la. †	18	-	29	-	-	-	14	6	20	45	23	-	30
S. CENTRAL	15	-	8	-	-	1	6	-	24	48	11	_	6
Cy. Fenn.	1	-	1	-	-	_	_	-	2	-	1	-	2
ienn. Ala	1	-	NN 7	Ξ	_	1	4 2	_	8 12	16	3 7	_	1 1
Miss.	4	_	<u>'</u>	_	=	_	-	_	2	23	_	_	2
V.S. CENTRAL	17	_	21	~	1	1	4	_	21	68	49	-	26
∖rk.	3	-	2	_	1	1	1	-	2	4	7	_	1
.a. Okla.	_	_	NN	_	=	_	2	_	3	15	10	_	3
ex.t	12	_	19	_	_	_	1	Ξ	1 15	3 46	6 26	_	22
OUNTAIN	2	_	21	_	4	_	3	_	13	67	12	-	7
font.	-	-	5	-	_	-	-	-	1	3	-	-	_
daho	-	_	_	-	_	Ξ	_	-	-	4	-	_	==
Vyo. t Colo.	1 1	_	14	_	2	_	3	_	- 9	1 18	1 2	_	4
l. Mex.†	_	_	-	_	_	_	_	_	1	5	1	Ξ	ì
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	_	_	Z	_	1	-	-	-	1	2	-	_	1
ACIFIC	37	1	169	1	56	3	3	-	74	145	47	5	220
Vash. † Oreg.	- 8	-	106	1	52	-	1	-	7	12	1 12	_	7
reg. Calif.†	8 29	1	_	_	1	3	_ 2	_	4 60	108	33	5	180
Alaska		_	50	_	3	_	_	_	2	2	1	_	4
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/.l.	NA .	NA - Not av	N A	NA_		NA -	-		N A	NΔ	NA	NA	1

NA: Not available.

^{*}Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

The following delayed reports will be reflected in next week's cancel to update last year 1 week's and cumulative totals. Asp. meng. Ohio +41, Ind. +12, Wis. +3, Tex. -1, Wash. +5, Calif. +24; Chickenpox: Calif. +11, Pac. Trust Terr. +12; Enceph., prim: Ind. +10, Wis. +4, Kans. -1, Calif. +6; Enceph., post: Fla. +1, Hep. 8: N.J. +5, Va. -1, Ga. +3, N. Mex. +1, Calif. +57; Hep. A: N. H. +1, N.J. -3, Kans. -5, Ga. +4, Tex. -8, Calif. +96; Hep. unsp.: N.J. -4, Wis. +2, Kans. +3, Va. -1, Tex. -11, Wyo. +1, Calif. +44, Pac. Trust Terr. +4; Malaria: Fla. +1, Calif. +5.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending October 14, 1978, and October 15, 1977 (41st week)

	м	EASLES (RU	BEOLA)	MENING	OCOCCAL IN TOTAL	FECTIONS	, N	AUMPS	PE RTUSSIS	RUB	ELLA	TETANUS
REPORTING AREA	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	CUM. 1977*	1978	CUM. 1978	1978	1978	CUM. 1978	CUM. 1978
UNITED STATES	104	24,279	53,282	36	1,895	1,394	128	13,873	40	39	16,703	66
NEW ENGLAND	14	1,581	2,456	1	103	57	4	749	-	1	747	
Maine	1	1,315	170	-	8	3	-	492	-	-	153	
N.H.† Vt.	- 2	46 31	511 254	Ξ	7 2	3	_	15 5	_	_	101 27	
Mass.	10	253	624	_	45	17	1	89	~	ı	220	
R.I.	-	8	64	-	18	1	1	39	_	_	42	_
Conn.	1	328	823	1	28	27	2	109			204	
MID. ATLANTIC Unstate N.Y.	2	2,186 1,399	8,358 3,817	2	315 100	1 8 1 4 3	4	638 207	6 3	6	3,010 525	
N.Y. City	2	357	732	_	73	48	i	152	3	2	135	
N.J.	_	74	195	2	60	42	1	138	-	2	1,608	
Pa.	-	356	3,614	-	82	48	1	141	-	2	742	
E.N. CENTRAL	19	10,986	11,362	6	202	153	53	5.646	14	7	8,406	
Ohio Ind.†	3	490 199	1,858 4,335	2	70 36	56 9	25	983 321	14	2	1,372	
III.	5	1,145	1,765	-	30	36	1	1,868	_	1	1,712	
Mich.	2	7,668	977	2	55	38	9	1,394	_	2	3,185	
Wis.†	9	1,484	2,427	-	11	14	18	1,080		2	1,544	
W.N. CENTRAL	3	39 8 3 8	9.466	3	64	59 19	16	1,946	_	4	675	
Minn. Iowa†	1 2	56 55	2,622 4,284	1	15 5	19	10	21 136	_	1	128	
Mo.	-	14	1,044	2	27	20	i	1,170	_	ž	107	
N. Dak.	-	196	24	_	3	1	-	15	-	1	82	· -
S. Dak. Nebr.	_	- 5	67 214	=	3	4 2	_	7 25	_	_	111 34	
Kans.	-	90	1,211	-	11	5	5	572	-	-	153	
S. ATLANTIC	34	5,065	4,636	9	471	310	8	821	2	2	1,029	17
Del. Md.	_	7 51	22 372	1	16	21 20	_	56 70	_	_	35	
D.C.	_		14	-	2	20	_	2	_	_	í	
Va.	1	2,829	2,725	_	55	26	4	172	1	L	247	1
W. Va. N.C.	_	1.054 120	248 65	- 1	13 93	9 64	2	176 69	1	1	322 180	
S.C.	_	158	153	i	28	33	_	17		_	28	
Ga.†	_	31	768	2	50	47	-	68	-	_	26	-
Fla.	33	795	265	4	182	90	2	191	-	-	183	7
E.S. CENTRAL	4	1.389	2.033	5	154	142	2	1,147	6		504	
Ky. Tenn	4	115 955	1,190 727	2 1	30 40	26 36	1	192 451	4	100	130	
Ala.	_	89	78	i	46	53	1	423	2	_	22	
Miss.	-	226	3 8	1	38	27	-	81	-	-	150	1
W.S. CENTRAL Ark.	13	1,104 16	2,101 29	5	281 22	280 15	13 2	1,715 602	5 L	4	940 58	
La.	_	343	74	4	117	127	_	65	_	_	486	1
Okla.	1	14	60	_	16	14	-	4	1		12	. 3
Tex.	12	731	1,938	ι	126	124	11	1:044	3	13.4	384	9
MOUNTAIN Mont.	1	251 105	2,530 1,162	1	42	34 3	4 2	418 145	_	3	207 18	
Idaho	_	103	161	-	4	5	_	20	_	_	2	
Wyo.	-	-	19	=	-	2		1	-	-	-	-
Colo. N. Mex.	ı -	31	5C3 257	1	3 8	1	1	95 16	_	L	4.8	
Ariz.	-	51	317	-	15	10	_	17	_	1	94	
Utah	-	44	18	_	5	3	_	116	-	- T	30	1
Nev.	_	19	93	-	4	1	1	8	-	1	12	-
PACIFIC Wash	14	899 204	10,300 542	4	263	178	24	793	7	12	1,185	
Oreg.	-	148	366	1	44 29	23 LA	12	169 108	ī	5	114	
Calif.†	6	534	5,257	2	180	106	5	461	6	7	932	13
Alaska Hawaii	-	1	60	1	7	29	_	9	-	_	1	_
nawali	-	12	35	_	3	2	-	26	_	_	12	
Guarn	NΑ	24	ç	_	_	1	NA	38	NA	NΑ	4	1
Pac. Trust Terr.1	3 10	16 265	NA 988	_	_	N A	1	2	-	-	16	
P.R.					7	1	45	1,308	1	_		

^{*}Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals: the following delayed reports will be reflected in next week's cumulative totals: Measles: Wis. -2, Ga. +2, Calif. +7, Pac. Trust Terr. +3; Men. inf.: Ind. +1, Ga. +1, Calif. +7; Rubella: N.H. +1, Calif. +1.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending October 14, 1978, and October 15, 1977 (41st week)

	TUBE	RCULOSIS	TULA-		HBID	(Tick-I	FEVER		VENER	AL DISEASES (RABI (in	
REPORTING AREA			REMIA	FE	WEA	(RM	SF)		GOMORRHEA		SYI	PHILES (Pri.		Assertd	
	1978	CUM. 1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	Cum. 1977*	1978	CUM. 1978	CURL 1977*	1978	
NITED STATES	456	23,506	101	7	390	14	943	19,820	788,398	783,457	476	16.842	16, 146	2,4	
EW ENGLAND	2	764	2	1	77	-	13	405	20.450	21,082	11	465	649		
aine	_	57	_	_	_	-	-	35	1,638	1,557	_	7	23		
.н.†	-	14	_	_	5	-	-	12	934	854	_	5	4		
t.	2	31 448	_	1	1 58	-	5	11	504	524 8,988	7	287	6 456		
ass.	_	53	_		4	_	1	22	8,968 1,454	1,678		207	475 8		
l. onn.†	NA	161	7	_	5	_	7	133	6,932	7,481	4	147	152		
ID. ATLANTIC	83	4,038	5	1	47	1	51	1,983	85,334	81,656	65	2,188	2,267	,	
ostate N.Y.	11	612	4	_	6	_	28	468	14,498	13,983	_	153	210	1	
Y. City	31	1,421	1	_	31	1	4	600	32,419	31,941	41	1,510	1,435		
1,1	6	960	-	-	5	-	11	326	15.957	14,629	14	272	290		
	33	1,045	-	1	5	-	8	489	22,460	21,103	10	253	332		
N. CENTRAL	86	3.686	1	-	35	1	45	3,762	122,113	123,583	52	1.908	1.692		
101	12	656 426	1	_	6	1	21	930 431	31.726 12.281	32,309 11,439	20 10	344 128	388 132		
d†	32	1,400	_	_	15	_	23	1,271	38,721	40,213	21	1,212	13Z 878		
ich.1	27	1.030	_	_	13	_		773	28,386	28,623	-	174	196		
is.†	8	174	7.9	-	-	-	-	357	10,999	10,999	1	50	88		
N. CENTRAL	18	748	21	1	17	-	40	912	40.161	40,960	17	372	364		
inn.	-	132	-	-	7	_	-	211	6,847	7,457	-	133	115		
wwa		86	. 1	_	3	_	1	71	4,422	4,798	-	38	34		
la.t	12	317	17	_	4	_	20	338 14	17,708 727	16, 934	5	117	140		
. Dak. Dak t	_	61	_		=	_	1	25	1.371	1.211	1	3	3		
ebr.	3	21	_	_	_	_	7	189	2,939	3,544	2	13	25		
ins.†	3	103	3	1	3	-	5	64	6,147	6.252	9	65	38		
ATLANTIC	103	5.014	9	1	54	7	514	4,943	193.021	193,033	113	4,451	4,453		
el.	- 4	45	-	-	3	_	5	70	2,736	2,618	_	9	19		
d f	16	750	5	-	11	_	105	603	24 . 86 1	23,939	. 1	331	283		
.C.	12	246 526	4	_	1	1	107	286 497	12.852 18.633	12.630 20.305	13 14	346 374	461 442		
a . Va	8	195		_	5	_	11	88	2,655	2,543	- 17	16	3		
ic.t	24	787	_	_	ź	3	186	461	27,104	28,926	12	466	601		
C.	6	436	_	_	5	_	54	579	19,059	18,207	4	233	197		
a.	_	693	-	_	4	3	45	861	37,323	37,280	18	1.101	997		
a	31	1,346	-	1	10	-	_	1.518	47,798	46,585	51	1,575	1,450		
S. CENTRAL	52	2.237	6	-	8	3	174	1.604	67,765	69,452	25	895	623		
γ.	12	505 690	2	_	2	2	42 110	164	8,890	9,438	7	116	81		
enn. Ia.	13 21	550	_	_	3 2	_	110	726 491	25.024	28, 101	3	310	195		
iss.	6	492	1	_	í	1	ii	223	19,375 14,476	18,548 13,365	11	151 318	137 210		
S. CENTRAL	43	2,739	47	2	36	2	92	2,348	106,532	98,555	89	2.738	2.322		
rk.	7	313	3.2	2	7	_	14	216	7,747	7,622	_	60	57		
a.	8	477	ė	_	3	-	1	377	17,397	14,603	21	588	549		
kla.	2	268	5	_	_2	-	53	225	13.058	9,461	3	80	63		
ex.	26	1.691	3	-	24	2	24	1,530	71,330	66,869	65	2,010	1,653	•	
OUNTAIN	14	682 50	7	-	19	-	10	707 30	29,997	31,585	4	362	339		
ont. aho	2	50 27	2	_	3 5	_	2	30 23	1,680 1,241	1,667 1,449	_	8 13	11		
vo.†	_	14	2	_	-	_	1	23	701	748	_	13	11		
yo olo.	_	74	-	_	4	_	2	292	8,348	8, 294	3	113	103		
Mex.	5	116	-	-	ž	_	_	99	4,214	4,643	_	71	71		
niž.	6	310	1	-	3	_	1	104	7.810	8,759	-	81	126		
tah ev.	- 1	32 59	2	_	1	-	1	33 102	1.625 4.378	1.877 4.148	1	12 56	8 14		
	_				_										
ACIFIC	55 NA	3,598	3	1	97 7	_	4	3,256	123,025	123,551	100	3,459	3,447		
ash. reg.	NA	244 145	_	_	í	_	1 2	367 295	10.349 8.724	9,426 8,566	NA 5	176 128	201 114		
reg. slif.1	48	2,714	3	1	81	_	1	2,411	97,733	98,862	94	3-111	3,077		
aska	_	59	_	_	-	-	_	137	3,983	4,116	_	9	23		
awaii	7	436			8			56	2,236	2,581	1	35	32		
uam	NA	50	_	NA	_	NA	_	KA	173	169	NA	_	2		
ac. Trust Terr. 1	2	4	_	-	_	_	-	1	29	NA	_	_	MA		
R.	3	302	_	_	:1 2	NA	_	23	1,724	2,544	5	389	431		
d.	NA.	4		N.A				8.6	151	170	NA		я		

^{*}Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

The following delayed reports will be reflected in next week's cumulative totals: TB: N.L. -147, Mich. -5, Kans. -2, Md. -1, N.C. -2, Calif. +52, Pac. Trust Terr. +1; T. fever: Conn. -1, Ind. +1, Calif. +4; GC: N.H. +1 civ., Conn. +16 mil., Ind. +549 civ., Wis. -4 civ., S. Dalt. -1 civ., Wyo. +28 civ., Calif. +3798 civ. +125 mil.; Syphilis: Ind. +7 civ., Mo. +2 civ. +1 mil., Calif. +64 civ.; An. rables: Ohio +6, Wis. +2, Calif. +9.

TABLE IV. Deaths in 121 U.S. cities,* week ending October 14, 1978 (41st week)

		ALL CAUS	ES, BY AG	E (YEARS)					ALL CAUS	ES, BY AG	E (YEARS)			
REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P&I** TOTAL	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P&I**	
NEW ENGLAND	658	445	157	25	11	26	S. ATLANTIC	1,210	696	362	70	41	46	
Boston, Mass.	188	107	59	4	8	6	Atlanta, Ga. Baltimore, Md.	152	88	39	16	. 1	6	
Bridgeport, Conn. Cambridge, Mass.	44	30	11	3	-	1	Charlotta, N.C.	199 38	88 20	73 7	2 8	12	8	
Fall River, Mass.	26 26	23 19	1	2	_	2	Jacksonville, Fla.	92	57	22	3	8		
Hartford, Conn.	51	37	11	3	_	1	Miami, Fla.	138	79	47	7	4	_	
Lowell, Mass.	28	18	9	ī	-	3	Norfolk, Va.	59	37	12	6	1	1	
Lynn, Mass.	12	10	2	-	-	-	Richmond, Va.	64	34	23	4	1	4	
New Bedford, Mass.	26	19	5	2	-	3	Savannah, Ga. St. Petersburg, Fla.	52	32	14	4	1	6	
New Haven, Conn. Providence, R.I.	49 59	34 37	12 16	3	1	1 7	Tampa, Fla.	92 63	76 41	12 19	1 1	3 2	4	
Somerville, Mass.	7	6	16	•	2		Washington, D.C.	228	120	77	17	6	é	
Springfield, Mass.	45	33	ĝ	2	_	1	Wilmington, Del.	43	24	17	i	_	Ž	
Waterbury, Conn.	29	22	3	2	_	1 .								
Worcester, Mass.	68	50	14	2	-	-	E.S. CENTRAL	559	324	139	42	29	24	
							Birmingham, Ala.	91	56	19	8	5	2	
MID. ATLANTIC	2,553	1.634	621	181	54	109	Chattanooga, Tenn.	61	29	18	6	7	3	
Albany, N.Y.	69	44	14	4	1	1	Knoxville, Tenn.	30	24	4	-	1	1	
Allentown, Pa. Buffalo, N.Y.	21	12	7	2	-	-	Louisville, Ky	85	57	18	. 3	3	5	
Buttalo, N.Y. Camden, N.J.	109	74	27 9	4	4	7	Memphis, Tenn. Mobile, Ala.	144 26	80 12	40 4	10 8	6 1	3	
Elizabeth, N.J.	38 30	25 20	7	3	_	3	Montgomery, Ala.	38	20	12	2	2	3	
Erie, Pa.	27	12	14	í	_	1	Nashvillo, Tenn.	84	46	24	5	4	5	
Jersey City, N.J.	50	35	10	4	-	3								
Newark, N.J.	50	26	16	3	4	1								
N.Y. City, N.Y. Paterson, N.J.	1,381	878	326	120	25	39	W.S. CENTRAL	1,194	673	302	101	67	25	
Philadelphia, Pa.	55 296	36 189	9 73	6 18	2 10	6 25	Austin, Tex. Baton Rouge, La.	47 39	30 24	5 7	7	3 2	3	
Pittsburgh, Pa.	54	32	18	10	1	2	Corpus Christi, Tex.	31	17	6	2	5	i	
Reading, Pa.	34	26	7	1	_	2	Dallas, Tex.	149	77	45	9	ģ	3	
Rochester, N.Y.	110	78	21	3	4	11	El Paso, Tex.	45	26	15	3	1	2	
Schenectady, N.Y. Scranton, Pa.	25	17	7	-	1	1	Fort Worth, Tex.	89	49	19	10	8	2	
Syracuse, N.Y.	25	17	8	-	_	2	Houston, Tex.	346	183 24	88	38	17	1	
Trenton, N.J.	103	67 18	23 15	6 2	2	3	Little Rock, Ark. New Orleans, La.	36 115	24 56	6 38	2 8	8	_	
Utica, N.Y.	17	12	4	_	Ξ	1	San Antonio, Tex.	147	90	41	7	4	2	
Yonkers, N.Y.	24	16	6	1	-	i	Shreveport, La. Tulsa, Okla.	61 89	4 2 5 5	10 22	3	5	3	
E.N. CENTRAL	2,241	* 200	531	145	85	56								
Akron, Ohio	63	25	24	4	5	- Jo	MOUNTAIN	523	321	116	41	24	13	
Canton, Ohio	48	34	8	ż	ź	2	Albuquerque, N. Mex.	43	27	11	_	2	3	
Chicago, III.	549	351	126	45	14	17	Colo. Springs, Colo.	22	14	6	1	1	1	
Cincinnati, Ohio	118	81	23	5	5	4	Denver, Colo.	118	74	23	10	6	3	
Cleveland, Ohio	153	88 81	39	10	4	1 -	Las Vegas, Nev. Ogden, Utah	50 13	22 10	13	10	1	1	
Columbus, Ohio Dayton, Ohio	127 103	57	25 41	8 2	6	2	Phoenix, Ariz.	123	65	32	10	10	_	
Detroit, Mich.	290	175	67	21	13	ž	Pueblo, Colo.	31	22	7	1	1	3	
Evansville, Ind.	69	46	18	2	2	3	Salt Lake City, Utah	47	36	7	4	-	2	
Fort Wayne, Ind.	53	36	7	2	3	3	Tucson, Ariz.	76	51	15	5	3		
Gary, Ind.	12	6 37	3	2	2	1	l							
Grand Rapids, Mich. Indianapolis, Ind.	. 52 150	89	6 35	6 11	9	5 2	PACIFIC	1.352	873	309	95	38	34	
Madison, Wis.	60	42	9	5	3	4	Berkeley, Calif.	16	7	a	_	-	-	
Milwaukee, Wis.	130	87	28	5	7	2	Fresno, Calif.	60	44	12	2	1	7	
Peoria, III.	36	21	8	4	2	1	Glendale, Calif.	20	16	4	-	-	1	
Rockford, III	33	21	10	-	-	2	Honolulu, Hawaii	49 79	25	12	6 1	5	- 3	
South Bend, Ind. Toledo, Ohio	43 93	24 59	14 24	4	1	4	Long Beach, Calif. Los Angeles, Calif.	365	53 246	25 76	23	5	ě	
Youngstown, Ohio	59	39	16	3	1	-	Oakland, Calif.	62	35	14	8	3		
							Pasadena, Calif. Portland, Oreg.	22 113	14 80	8 21	5	6	_	
W.N. CENTRAL	670	427	143	37	39	30	Sacramento, Calif.	64	35	17	. 7	3	1	
Des Moines, Iowa	56	34	12	5	3	1	San Diego, Calif.	88	43	19	18	3	- 3	
Duluth, Minn.	23 30	11 18	9	2	1	3	San Francisco, Calif. San Jose, Calif.	146	88 38	37 18	13	5	3	
Kansas City, Kans. Kansas City, Mo.		18 78	27	_	2	4	Seattle, Wash.	127	95	27	9	4	-	
Lincoln, Nebr.	134 26	19	6	8	15 1	5	Spokane, Wash.	46	34	9	í	ì		
Minneapolis, Minn.	17	56	11	3	5	á	Tacoma, Wash.	38	30	ź	2	2		
Omaha, Nebr.	70	43	17	2	7	1.	i							
St. Louis, Mo.	131	79	39	7	4	1	l						_	
St. Paul, Minn.	59	46	9	2	1	3	TOTAL	10,960	6,792	2.680	737	388	363	
Wichita, Kans.	64	43	9	5	-	9	Expected Number	10,814	_		681	421	373	

^{*}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

Current Trends

Primary and Secondary Syphilis – United States, July 1978

Reported primary and secondary syphilis cases numbered 1,677* in July 1978, representing an increase of 4.5% over cases for July 1977 (1,605). July is the fifth consecutive month this year that more infections were reported compared to the same month of last year. During the first 7 months of 1978 (January-July), 11,918 such cases were reported—2.3% more than the number reported during the same time period of 1977.

Although 30 areas reported an increase in the number of cases occurring in 1978 compared to 1977, the problem remains largely localized to 5 areas. Fifteen areas reported fewer cases and 4 areas reported the same number of cases in the first 7 months of 1978 compared to the same time period of 1977 (Table 2).

TABLE 2. Summary of reported primary and secondary syphilis cases by reporting area, July 1978 and July 1977 — provisional data

Reporting Area by HEW Regions	July Ca		Cum	lar Year ulative ry-July	Reporting Area by HEW Regions	July		Calendar Year Comulative January-July		Reporting Area by HEW Region	July		Calendar Year Cumulative January July	
_	1978	1977	1978	1977]	1978	1977	1978	1977	1	1978	1977	1978	1977
Connecticut	12	12	93	185	Illinois	21	10	89	100	Arizona	13	12	58	98
Maine	0	2	1 7	14	(Excl. Chicago)		l			California	145	119	970	858
Massachusets	10	47	198	346	Chicago	95	75	735	547	(Excl. LA & SF)		1		""
New Hampshire	a	0	4	4	Indiana	13	10	48	60	Los Angeles"	175	85	984	774
Rhode Island	3	1 1	16	8	(Excl. Indianapolis)		l	l	1	San Francisco*	45	76	362	498
Vermont	ا م	ĺ	3	5	Indianapolis*	7	1 1	32	32	Hawaii	3	1 A	26	22
REGION I TOTAL	25	62	321	482	Michigan	18	20	136	155	Nevada	12	l i	29	9
	1				Minnesota	9	10	111	83	REGION IX TOTAL	393	297	2,429	2.259
New Jersey	24	27	180	201	Ohio	34	26	245	289				.,	-,
New York	23	32	128	168	Wisconsin	5	7	40	58	Alaska	l o	2	1 7	19
(Excl. NYC)	Į.		-	J	REGION V TOTAL	202	165	1,436	1,324	Idaho	1 2	ه ا	6	4
New York City	121	130	1.117	1,017			i	1	1	Oregon	9	6	83	71
REGION II TOTAL	168	189	1.425	1,386	Arkansas	4	8	45	38	Washington	16	28	119	136
			1	'	Louisiana	60	61	393	379	REGION X TOTAL	27	36	215	230
Delaware	1	=1	1 7	15	New Maxico	6	7	60	47					-
District of Columbia	28	51	244	351	Oklahoma	11	8	58	47	UNITED STATES			i	!
Maryland	13	- 11	92	95	Texas	195	182	1,330	1,129	TOTAL	1,677	1,605	11,918	11,650
(Excl. Baltimore)	1	1	ĺ		REGION VI TOTAL	276	266	1,886	1,640		ļ		<u> </u>	-
Baltimore	17	22	166	155		1	l		1	Puerto Rico	33	51	281	350
Pennsylvania	1 7	10	64	92	lows	2	3	28	22	Virgin Islands	4	1 1	13	10
(Excl. Philadelphia)	1		ł		Kansas	13	2	52	41	UNITED STATES	l	l	i	1
Philadelphia	17	15	106	148	Missouri	17	11	73	89	INCLUDING		l		
Virginia	24	48	263	329	Nebraska	1	0	8	24	GUTLYING AREAS	1,714	1,657	12,212	12,010
West Virginia	1	0	10	1	REGION VII TOTAL	33	16	161	176					1
REGION III TOTAL	108	158	952	1,186		l	l	i	l		L	l		
	i			'	Colorado	7	10	59	73					
Alabama	18	13	92	73	Montana	a	1	6	5					
Florida	135	149	1.150	1,124	North Dakota	0	0	2	2					
Georgia	67	75	465	427	South Dakota	1	0	2	2	Note Cumulative total		revised and	d delayed r	eports
(Excl. Atlanta)	į .		1		Utah	a	1	11	5	through previous	months.			
Atlanta*	50	39	312	242	Wyoming	a	0	4	2	Source CDC 9 98. HE	w pus c	229 OU	VD Coote	d Davison
Kentucky	13	8	80	50	REGION VIII TOTAL	8	12	84	89	Atlanta, Georgi				
Mississippi	38	20	227	155		1	ſ	l	I					
North Carolina	52	55	314	521			Į.		l					
South Carolina	34	27	165	155			Į .		l	1				
Tennessee	30	18	204	131			l		l	1				
REGION IV TOTAL	437	404	3 0 0 9	2.878				l	l	1				

*County data

Reported early latent (less than 1 year's duration) syphilis cases numbered 9,768 during January-July 1978, up 1.1% over the number reported during January-July 1977. Reported by Venereal Disease Control Div. Bur of State Services. CDC.

Epidemiologic Notes and Reports

Infant Botulism - Arizona

Botulism toxin has been isolated from the serum and stool of a 6-week-old boy hospitalized in Phoenix, Arizona, with infant botulism. This is the first time that toxin has been isolated from the serum of an infant with the disease.

^{*}provisional data

Infant Botulism - Continued

The infant was born on July 31 in California and was constipated since birth (4 stools in 6 weeks). He was breast-fed but occasionally drank some canned fruit juices. He had no known ingestion of honey. On September 17, he was noted to have decreased appetite; previously he had been described as a vigorous eater. On September 18, he was hypotonic and suffered a respiratory arrest after being hospitalized. He was noted to have pooling of secretions, poorly reactive pupils, extra-ocular muscle dysfunction, and absent deep tendon reflexes.

CDC isolated botulism toxin from the boy's serum and stool on September 23. The stool contained type A botulism toxin; insufficient serum was available to permit typing the toxin detected in it. A subsequent serum specimen obtained on September 23, 3 days after the initial specimen, was shown to contain type A toxin.

Blood chemistries and hematological studies were normal. Blood, urine, throat, and spinal fluid cultures showed no pathogens on culture. Cerebrospinal fluid pressure, cell count, and glucose and protein content were normal. An electromyogram was consistent with neuromuscular blockade, showing the BSAP pattern described in infant botulism.

The infant was initially treated with ampicillin and gentamicin for presumed sepsis. These were discontinued when cultures were negative and the diagnosis of infant botulism was made. No antitoxin has been given. As of October 16, the infant continued to require mechanical ventilation, although bowel motility was normal, and he showed increased spontaneous movements.

Reported by D Alexander, MD, A Kaplan, MD, A Lersch, MD, St. Joseph's Hospital, Phoenix; A Kelter, MD, State Epidemiologist; Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: The syndrome of infant botulism has been recognized frequently since its initial description in 1976 (1-3). The question of whether antibiotics and/or antitoxin are indicated in therapy, in addition to supportive care, remains to be answered, pending further studies on the natural history of this illness.

References

- 1. Pickett J, Berg B, Chaplin E, Brunstetter-Shafer M: Syndrome of botulism in infancy: Clinical and electrophysiologic study. N Engl J Med 295:770-772, 1976
- 2. Arnon SS, Midura TF, Clay SA, Wood RM, Chin J: Infant botulism: Epidemiological, clinical and laboratory aspects, JAMA 237:1946-1951, 1977
- 3. MMWR 27:17-23, 1978

Follow-up on Vibrio cholerae serotype Inaba Infection - Louisiana

No new confirmed environmental, seafood, or human *Vibrio cholerae* isolates have been identified in Louisiana in the past week. Subsequent culturing of the Gueydan sewerage system, triggered by the positive isolate last week (1), yielded no cholera organisms, and review of the area's hospital and physician records disclosed no recent cases of severe diarrhea.

Air-transported shipments of unprocessed crabs from Louisiana were received by 4 states last week, and their public health officials are being kept apprised of the developments in Louisiana. Monitoring of these air shipments by the U.S. Food and Drug Administration (FDA)—including culturing crabs and noting distribution sites—continues.

Reported by HB Bradford, PhD, Director, Bur of Laboratories, CT Caraway, DVM, State Epidemiologist, Louisiana Dept of Health and Human Resources; FDA; Enteric Diseases Br, Epidemiologic Investigations Laboratory Br, Bacterial Diseases Div, Quarantine Div, Field Services Div, Bur of Epidemiology, CDC.

Editorial Note: Although Louisiana has been removed from the World Health Organization's list of cholera-infected areas, travelers should be aware that because of possible

Vibrio cholerae — Continued

delays in communication, some countries may require evidence of cholera immunization. A single dose of vaccine is sufficient to satisfy International Health Regulations (2).

Each of the Louisiana cholera patients was treated with tetracycline. The recommended dose in adults is 3 to 4 gm of tetracycline orally over 2 to 3 days (3). For pediatric cholera, the dosage is 30 to 60 mg/kg/day for 2 to 3 days, an amount believed unlikely to cause staining of teeth (4). For moderate or severe cholera cases, antibiotic therapy is merely an adjunct to the primary objective of rapidly replacing fluid and electrolyte losses. Ringers lactate with 10 mEq potassium added to each liter, or a comparable solution, is the treatment of choice (2).

The finding of 3 asymptomatic persons among the 11 cholera infections in Louisiana underscores the fact that El Tor cholera produces a high percentage of symptomless infections (5).

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Errata, Vol. 27, No. 36

- p 339 Because of some numerical errors in the references to the article on Human Diploid Cell Strain Rabies Vaccine, those references are being reprinted here in correct form.
- 1. Wiktor TJ, Plotkin SA, Koprowski H: Development and clinical trials of the new human rabies vaccine of tissue culture (human diploid cell) origin. Dev Biol Stand 40:3-9, 1978
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