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EPIDEMIOLOGIC NOTES AND REPORTS BOTULISM — West Virginia, Pennsylvania

Between May 6 and 9, 1973, 8 of 28 persons from 5 related families became ill with nausea, vomiting, and abdominal pain 12-55 hours after sharing a meal of spaghetti and assorted meats, salads, and condiments. All 8 were hospitalized, 7 in Wheeling, West Virginia, and 1 in McKeesport, Pennsylvania; 7 developed signs of neurologic dysfunction 1-3 days after onset of the gastrointestinal symptoms. Cranial nerve abnormalities, weakness, and fatigue were common, and sore throat or dryness of the mouth was reported by all.

Food-specific attack rates for 18 items served at the gathering implicated a canned fried hot pepper product as the probable vehicle, and mouse neutralization tests performed by the Food and Drug Administration on a sample of the peppers remaining from the meal identified botulinal toxin, type B. All 8 patients were given trivalent botulinal antitoxin

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(Connaught) and are in satisfactory condition. Pretreatment serum specimens from the 8 patients were negative for detectable toxin.

The pepper product in which the toxin was detected was Nancy's Mild Hot Peppers In Oil, prepared by Felix and Sons Wholesale, Inc., Fairmont, West Virginia, a small family company operating from a private home. The peppers are fried, packed in oil in glass jars, and distributed in West Virginia, Pennsylvania, and Ohio. On May 11, the company

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

	19th WEE	K ENDING	MEDIAN	CUMULATIVE, FIRST 19 WEEKS				
DISEASE	May 12, 1973	May 13, 1972	MEDIAN 1968-1972	1973	1972	MEDIAN 1968-1972		
Aseptic meningitis	24	56	26	695	664	544		
Brucellosis	2	1	4	50	44	52		
Chickenpox	6,333	5,190		108,820	81,421			
Diphtheria	_	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	72	40	66		
Encephalitis, primary:		3				2002		
Arthropod-borne and unspecified	29	13	20	372	297	371		
Encephalitis, post-infectious	13	7	9	93	101	118		
Hepatitis, serum (Hepatitis B)	182	174	125	2,782	3,480	2,493		
Hepatitis, infectious (Hepatitis A)	1,014	1,171	1,113	18,718	20,985	20,721		
Malaria	6	35	84	82	494	938		
Measles (rubeola)	1.098	1,399	1,399	16,564	17,996	17,996		
Meningococcal infections, total	40	43	47	655	657	1,259		
Civilian	39	42	42	638	629	1,130		
Military	1	1	2	17	28	131		
Mumps	2,176	2,191	3,022	38,539	40,900	52,450		
Rubella (German measles)	1,215	788	2,283	18,962	14,573	28,158		
Tetanus	1	4	3	25	34	34		
Tuberculosis, new active	701	645		11,547	11,868			
Tularemia	1	2	2	21	41	33		
Typhoid fever	5	6	6	307	95	92		
Typhus, tick-borne (Rky. Mt. spotted fever)	9	10	10	30	31	21		
Venereal Diseases:					and the second	Market Sale		
Gonorrhea	17,856	13,289		280,479	248,066			
	469	509		9,754	8,689			
Syphilis, primary and secondary	94	87	79	1,331	1,652	1,479		

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.	control Effection at Annual State of the control of the	Cum.
Anthrax:	1	Poliomyelitis, total: Calif 1	1
Botulism:	_	Paralytic: Calif 1	1
Congenital rubella syndrome: Hawaii - 1, Va 1	9	Psittacosis: Calif. – 2	5
Lenrosy: Calif - 1	42	Rabies in man:	
Leptospirosis:	1 11	Trichinosis: N. Mex 1	33
Plague:		Typhus, murine: Miss 1	/

BOTULISM - Continued

voluntarily recalled all of their products. Studies to determine the error in processing are in progress.

Since the initial investigation, 4 additional cases of gastroenteritis associated with the ingestion of this pepper product have been reported to CDC. One of the ill persons had eaten peppers left over from the May 6 meal, but the other 3 were not related to the initial patients and lived in 3 separate communities in the tristate area. All 4 patients were treated with botulinal antitoxin. No neurologic symptoms have been reported in any of these patients.

(Reported by George Kellas, M.D., Director, Medical Education, Francis Gaydosh, M.D., Thomas Ritz, M.D., Michael Caruso, M.D., and Richard Terry, M.D., Wheeling Hospital, Wheeling, West Virginia; Thomas L. Thomas, M.D., Director, and Jack E. Clem, Administrative Assistant to the Director, Wheeling-Ohio County Health Department; William L. Cooke, M.D., Director, Division of Disease Control, and N. H. Dyer, M.D., Director of Health, West Virginia Department of Health; Walter McElroy, M.D., McKeesport Hospital, McKeesport, Pennsylvania; Eleanor Streiff, Director, Supportive Services, Hugh Robins, M.D., Assistant Deputy Director, Medical Services, Gerald Barron, Administrator, Food Division, and Joseph

Sarandria, Laboratory Director, Allegheny County Health Department; W. D. Schrack, Jr., M.D., Director, Division of Communicable Diseases, Pennsylvania Department of Health; the Food and Drug Administration; and 3 EIS Officers.)

Editorial Note

Patients in this outbreak presented with characteristic symptoms closely resembling those in a carefully documented family outbreak of type B botulism (1). The illness in the current outbreak was relatively mild; fixed dilated pupils and respiratory impairment, 2 commonly reported signs, were not observed. No additional cases have been reported since the product was recalled.

Including the present episode, 81 botulism outbreaks have been reported to CDC from the United States in the past 10 years, and 7 have been traced to peppers; 3 were caused by type A toxin, 3 by type B, and 1 by an unidentified toxin. Of these 7 outbreaks, this is the 1st caused by a commercially processed pepper product.

Reference

1. Koenig MG, Drutz DJ, Mushlin AI, Schaffner W, Rogers DE: Type B botulism in man. Am J Med 42:208-219, 1967

INTERNATIONAL NOTES FOLLOW-UP ON SMALLPOX — United Kingdom

As previously reported (MMWR, Vol. 22, No. 14), 3 cases of smallpox occurred in the United Kingdom in March and April 1973. Two of these were secondary cases in a 34-year-old man and his 29-year-old wife who were contacts of the index case; both of these patients died. On April 27, the United Kingdom reported a 4th case of smallpox in a 22-year-old nurse who provided care to the 2nd and 3rd patients. The nurse gave a history of vaccination in childhood and a subsequent vaccination at an unknown time; because she had had close contact with the secondary cases on April 4 and 5, she was revaccinated on these 2 dates. On April 14, she became ill with fever, headache, and backache and had 2 small

papular eruptions on the dorsum of her hand. The illness lasted a few days and then spontaneously disappeared. Examination of these lesions for smallpox by electron microscopy was negative, and no virus was isolated in chicken eggs. The case was reported as *variola sine eruptione* on the basis of clinical evidence. As of May 13, 1973, metropolitan London was declared smallpox-free.

(Based on information provided by the Department of Health and Social Security, England; and the World Health Organization: Weekly Epidemiological Record, Vol. 48, Nos. 13, 14, and 17.)

SURVEILLANCE SUMMARY SMALLPOX – Worldwide

WORLDWIDE

Through May 1, 1973, a total of 46,915 cases of small-pox had been reported to the World Health Organization (WHO) in 1973, an increase of 79% over the total recorded at this time last year. The increase is entirely attributable to a substantial increase in incidence in Bangladesh and northern India, where the most serious epidemics in many years have occurred this season. In all other countries, smallpox incidence declined sharply or, as in the case of Pakistan, remained essentially unchanged.

In 1970, a record low in smallpox incidence was recorded-33,640 cases. With the extension and improvement of surveillance activities and more complete reporting, the number of cases rose to 52,770 in 1971 and to 65,087 in 1972. This was regarded as an encouraging development: more cases were being detected, but more outbreaks were being contained. In 1973, based on present trends, a further increase in cases can be anticipated. Most of this increase,

however, reflects not improved notification, but a substantial increase in incidence in India and Bangladesh. The eventual total of cases in these 2 countries will depend on the efficacy of emergency measures now being taken. However, if present trends continue, India could record more than 60,000 cases, and Bangladesh 40,000 cases—over 90% of the world's total.

Although smallpox incidence increased this year, the number of countries reporting 1 or more cases each month continued to decline. In December 1972 and January and February 1973, 6 countries reported cases, the fewest ever to record cases in a given month. In 1973, smallpox cases have occurred in 10 countries; 4 of them—Ethiopia, Bangladesh, India, and Pakistan—account for all except 51 cases.

A serious threat to the success of the global eradication program was the development this year of major epidemics of smallpox across most of northern India, especially in the (Continued on page 167)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MAY 12, 1973 AND MAY 13, 1972 (19th WEEK)

The same of the sa	ASEPTIC	BRUCEL-	CHICKEN- POX	150			ENCEPHALITI	S	HEPATITIS			
AREA	MENIN- GITIS	LOSIS		DIPH	THERIA	Primary including unspec. cases		Post In- fectious	Serum (Hepatitis B)		tious titis A)	
	1973		1973	1973	Cum. 1973	1973	1972	1973	1973	1973	1972	
UNITED STATES	24	2	6,333	-	72	29	13	13	182	1,014	1,171	
NEW ENGLAND	-	-	1,086	-	2	2	1	1	3	58	92	
Maine*	-	-	24	-	-		=	-	1 2	_	7	
New Hampshire *	-	-	20	-	-	-	-	-	-	3	7	
Massachusetts	_	Ē	58 640	-		2	1			5 29	3 51	
Rhode Island	-	_	119	-	2	-	2		1	6	13	
Connecticut	(- -	-	225	-	-	-	-	1	2	15	11	
MIDDLE ATLANTIC	2	_	489		-	2	1	1	42	192	165	
Upstate New York	1	_	1	1 2	113 2	_			4	45	35	
New York City	1	-	171	-	-	1	-	-	18	45	36	
New Jersey	-	-	NN	-	_	-	1	-	9	53	57	
Pennsylvania	-	-	317	-	-	1	-	1 -	11	49	37	
EAST NORTH CENTRAL	2	-	2,457	-		8	3	1	27	162	213	
Ohio *	-	-	527	_	477 2	3	2	27	8	59	47	
Indiana		-	210	-	-	-	2	-	27	6	7	
Illinois	-	-	105	-	-	7	-	1	9	48	68	
Michigan	2	-	485 1,235	-	-	5	1	-	10	45	87	
	-	- 5	1,233	-	1755	-	-	-	+	- 4	4	
WEST NORTH CENTRAL	1	-	458	-	7	1	1	1	4	33	57	
Minnesota	-	-	-	-	-	- 1	-	1	2	7	2	
lowa	1	-	374	-	-	1	-	-	-	_1	9	
Missouri	-	-	29		-	-	-7	-	-	8	26	
North Dakota *	-	-	33	.63		- 5%	-	-	-		3	
South Dakota Nebraska		-	5	-	7	-	-	-	7.1	- 1-	2	
Kansas	_	_	15	-		ii []	1	1	4	1 16	1 14	
					32.74				- 11			
SOUTH ATLANTIC	3		518	-	1.50	3	1	-	12	121	141	
Delaware		-	.74	=:	-		-	-	-	-	-	
Maryland District of Columbia	-	7.	48	25.7	7.1	₹ 3	-	-	2	11	24	
Virginia	1 2		8 75		-		-	. 3		-	5	
West Virginia *	-		228			1	1	_	3	9 8	34 8	
North Carolina	1		NN			2		- 1	6	28	21	
South Carolina	(10)	_	159	_		2	12	2	-	13	19	
Georgia	_	4	-	-	-	_	_	- 2	-	10	6	
Florida	2	-	=	-	-	-	-	-	1	42	24	
EAST SOUTH CENTRAL	3	1	148	46					4.0	0.0		
Kentucky	2	1 2	110	0		2	<u> </u>	_ <u>=</u>	13	83 19	62 19	
Tennessee	2	4	NN	_		2	Ξ.	2 1	3	48	39	
Alabama	-	-	37	-	-	2.5	-	2.0	3	9	2	
Mississippi	1	1	1	-		-	-		3	7	2	
WEST SOUTH CENTRAL	4		529		3	4	1	,	1,	141	176	
Arkansas *	200	1	41		IIVI.	LDE Z	12	3	11 2	141	176	
Louisiana *	1	-	NN	-	-	2	-	2	8	21	13	
Oklahoma	1	-	62	-	-	1	1	-	1	11	28	
Texas	2	-	426	-	3	1		1	-	107	131	
MOUNTAIN			470									
Montana		1	179	-	2	-	1	1	3	36	47	
idaho .	_	_	46	-	9 D	7	1	1	_	7	3 5	
wyoming			8			0001 (001)	_			10	د	
Colorado	_		24	_	-	-		I.	1	9	12	
New Mexico	-	-	62	-	2	-		1	-	8	11	
Arizona *	-	7	-	-	-	-	-	2		1	12	
Utah Nevada	-	-	39	-	-	-	-	-	2	-	4	
	-	-	-	-	= 3		-	1.70	-	1	-	
PACIFIC Wash:	9	1	469	-	58	7	4	5	67	188	218	
"asningion	-	-	412	-	53	-	-	-	4	29	29	
oregon	-	70	2		3		1	5	2	16	29	
California Alaska	9	1	-	7	2	7	2	5	61	134	146	
Hawaii	- 2		14	-	7/		1	i i i i a i i	11/2	-	7	
	7-	57	41	-70		7	7	-	-	9	7	
Gran, 4												
Guam *	_	-	20	-	-	-	-	-	-	-	-	
Puerto Rico . Virgin Islands	3	1.0	4	-			- 5		-	18	24	
- папапаз			, ,		-			-		255	-	

Delayed reports: Aseptic meningitis: Guam 1 Chickenpox: Me. 7, N.H. 47, Ark. 6, Guam 28 Encephalitis, primary: N. Dak. 1

Hepatitis B: N.H. 1, Ohio 12, Ariz. 1 Hepatitis A: Me. 10, N.H. delete 1, Ohio delete 12, W. Va. 1, Ark. 5, La. delete 1, Ariz. 21, Guam 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MAY 12, 1973 AND MAY 13, 1972 (19th WEEK) - Continued

AREA			MEASLES (Rubeola)				TOTAL					RUBELLA	
		Cum.		Cumu	ılative	*	Cumu	lative	1077	Cum.	1973	Cum.	
	1973	1973	1973	1973	1972	1973	1973	1972	1973	1973	1973	1973	
UNITED STATES	6	82	1,098	16,564	17,996	40	655	657	2,176	38,539	1,215	18,96	
NEW ENGLAND	1	6	365	5,978	1,671	3	30	28	107	1,718	221	2,58	
Maine *	Ξ	_	1 4	19 738	171 163	2	- 6	3 1	1	130	27	31	
Vermont		2	2	93	95	_	2		19	213	16	2	
Massachusetts	1	2	205	3,274	276	-	11	14	34	588	113	1,47	
Rhode Island	_	_ 2	79 74	395 1,459	279 687	1	1 10	8 2	17 36	171 472	63	16 56	
AIDDLE ATLANTIC	1	11	80	1,285	735	5	96	75	359	4,821	217	2,8	
Upstate New York	i	6	32	332	91		35	18	NN	NN	13	2	
New York City		1	25	652	154	2	18	21	200	2,870	44	28	
New Jersey	40	1	8	150	454	1	21	18	109	1,128	148	2,13	
Pennsylvania	-47	3	15	151	36	2	22	18	50	823	12	1	
AST NORTH CENTRAL Ohio	2	11 2	385 12	5,413 212	7,024 196	3 2	75 36	90 33	728 232	10,672	255 36	4,09	
Indiana	- 5	1	26	452	994		2	9	42	806	37	71	
Illinois	2	6	94	1,186	2,523	_	12	19	121	1,880	26	6	
Michigan		2	205	2,783	1,246	1	22	25	187	2,923	93	1,0	
Wisconsin	-	I -	48	780	2,065	_	3	4	146	3,064	63	1,1	
VEST NORTH CENTRAL	_	- 4	7	316	664	6	56	56	123	3,614	111	1,0	
Minnesota	-	1	1	15	14	-	41-1	11	1	72	22	1.	
Iowa	-	-	- 5	209	430	3	11 28	2	87	2,361	1	2	
Missouri	_	1 1	1 7	22 44	142 39	2	3	18	14	436 50	66	2	
South Dakota	Ī		_	-	4	_	3	2	4	11	15	-50	
Nebraska	-		14	3	17	_	4	7	3	80	6	1	
Kansas	-	1	-	23	18	1	7	16	14	604			
OUTH ATLANTIC	-	9	56	832	1,535	4	105	140	191	4,463	104	1,4	
Delaware		_	-	5	12	-	-	1	10	205	1		
Maryland	-	-	-	1	12	-	16	24	19	457	-	10	
District of Columbia	-	-	-			1	17	33	18	419	11	3	
Virginia	_	4	7 6	351 142	184	<u></u>	2	6	53	1,530	16	1	
West Virginia		1		4	27	1	20	21	NN	NN	12	1	
South Carolina	_	1	11	48	177	-	7	13	12	288	8		
Georgia	-	-	17	35	122	7	17	3	3	20	1	6	
Florida ,	-	3	15	246	957	1	24	35	72	1,522	55	- 100	
EAST SOUTH CENTRAL	11.5	2	34 17	495	900	3	60 24	56 19	185 44	2,509 756	34 11	9:	
Kentucky	141	1 1	15	333 129	468 169	<u>i</u>	20	21	61	975	14	3	
Alabama	1	2	1	- 12	120	1	11	10	66	336	5	13	
Mississippi	-	-	2	33	143	1	5	6	14	442	4	10	
VEST SOUTH CENTRAL	1	9	12	532	1,065	7	105	80	124	2,503	66	1,2	
Arkansas *	_	-	3	62	10	1	12	7	18	204	2		
Louisiana	1	2	2	61	69		21	23	2	50	6	1.	
Oklahoma	1	1 6	1 6	39 370	9 977	3	10 62	6 44	9 95	1,977	1 57	8	
	- I -						+					1,9	
OUNTAIN	9 7	7	11	432	1,265	3	16	12	84 8	1,945 172	55 19	1,9	
Montana		<u> </u>	5	12 189	12 16	1	1	3	2	101	2	2	
Wyoming	<u> </u>		1 =	10	1	1	_	1	4	417			
Colorado	_	1	- 1	113	382	1	3	2	24	266	31	1,3	
New Mexico	J)	1	5	97	84	1	3	1	45	767	2		
Arizona		4	-	10	624	-	2	1 1	1	140 75	1	- 5	
Utah		_	- 1	1	146		2	1 1	1	7	<u>'</u>		
			4.0	1 201	2 127	_	112	120	275	6,294	152	2,7	
Washington	1	23	148 86	1,281 543	3,137 718	6	7	11	52	818	24	4	
Oregon	1	2	21	327	36	2	10	10	66	1,241	79	5	
California		18	40	402	2,298	4	91	95	127	3,609	48	1,7	
Alaska	D -	2	-	_	11		4	1 1	23	468	1	The World	
Hawaii	-	1	1	9	74			3	7	158			
Guam *	-	-	-	3	2		-	7		4	-		
uerto Rico	1.5	- 1	148	1,169	322 1	-	4	2 2	27 4	392 13	1		

*Delayed reports: Measles: Me. 1, N.H. 5 Mumps: Me. 26, N.H. 2, Ark. 5, Guam 2 Rubella: Me. 5, N.H. 15

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MAY 12, 1973 AND MAY 13, 1972 (19th WEEK) - Continued

	TETANUS	TUBERCULOSIS		TULA-	TYP	HOID		S-FEVER BORNE	VENEREAL DISEASES		RABIES IN	
AREA		(New	Active)	REMIA	FE	VER	(Rky. Mt. spotted fever)		GONOR- RHEA	SYPHILIS (Pri. & Sec.)		MALS
	Cumulative 1973	1973	Cum. 1973	Cumulative 1973	1973	Cum. 1973	1973	Cum. 1973	1973	1973	1973	Cum. 1973
UNITED STATES	25	701	11,547	21	5	307	9	30	17,856	469	94	1,331
EW ENGLAND	1	18	386	-	1	4	_	1	349	5	3	74
Maine .*	Ī	3	28		-	-	-	-	27	-	1 1	44
New Hampshire *	<u> </u>	2	10	1.5		_			17 12	-	744	26
Massachusetts	1217	6	219		1	4	1712	1	84	2	1	
Rhode Island	1	2	29	1 1 - 011					32		2.77	
Connecticut	, - - 1	5	75	1 - 1	- 1	-	-		177	3		
IDDLE ATLANTIC	4	110	2,370		# _	21	_	1	2,666	91	-	OIO F
Upstate New York	-	13	438		- 1	3	_	50.0 m	351	3		40.00
New York City	2	24	876	-		7	-		1,107	55	_	tion is
New Jersey	2	25	431	-	-	6	- 7	100-	676	24	-	-7/15 C
Pennsylvania	1.7	48	625		-	5	- 1	1_1	532	9	-	
AST NORTH CENTRAL	4	187	1,824		-	12	25	110.2	1,870	23	6	125
Ohio	-1	36	564	110-	-	5	-	e - 1	602	7	-	18
Indiana		7	233	1-15	- I	BUILT IN	i e	131	233	5	3	3.5
Illinois	2	45	504		#-1	2	Tr 1	-	247	7	3	37
Michigan	1	22 77	389 134		2	3 2			541 247	4	-	34
								- T	247	-	- 11	34
EST NORTH CENTRAL	4	15	435	2		8		1	861	7	33	376
Minnesota	-	- 5	58	-	-	3	- "	50 - n	157	4	10	125
Iowa *	3	1	40	_	-	_		T.V -	113	- 1	8	89
North Dakota	1		203 15	2		3	- 1	1	330	3	3	33
South Dakota	2.5	i	29			1			4 24	· ·	7	64
Nebraska	210	2	35	41.24		i		_	50	10 To	1	29
Kansas		5	55	· -	11.	5 = 5	-	10 = 1	183		4	34
OUTH ATLANTIC	4	135	2,208	5		214	7	14	F 700	1,0		
Delaware	On India	1 2	25	1 1		214	<u>'</u>	1	5,709 74	168	7	118
Maryland		13	213	H = 1	1	4	_		331	28		6
District of Columbia	- 10	. 3	114	7.17	10-11	120		- 1	2,076	19		_
Virginia	-	29	302	1 1	- 1	- 1	2	2	435	47	1	42
West Virginia *		4	119	10.00					81	-	3	14
North Carolina *		15 18	352 223	1 -		3	3	5	575	16	-	
Georgia		23	382	3	- 1	1	2	4 2	443	18	-	1
Florida	4	28	478		- I	205	_	_	698 996	6 34	3	38 17
AST SOUTH CENTRAL	3		1 005					10				
Kentucky	1	65 8	1,005 263	5	1	5 1		4	1,237	36	10	262
Tennessee	1	28	293	3	1	2		2	173 462	13	9	140 92
Alabama	i	18	265			2		2	314	6		30
Mississippi		11	184	1	e - 1	-		_	288	10	100 - 100	30
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Syphilis: Alaska 1

Rabies: Me. delete I, W. Va. I, Ariz. 3

Morbidity and Mortality Weekly Report

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING MAY 12, 1973

Week No. 19

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

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		والأوالي				corrections for previous weeks)	231,112	133,474	7,447	12,2

[†]Delayed report for week ending May 5, 1973

^{*}Estimate based on average percent of divisional total

SMALLPOX - Continued

States of West Bengal, Uttar Pradesh, and Bihar. Urban areas, where smallpox programs have been generally less effective than in rural areas, have served as reservoirs of smallpox and disseminators of disease throughout the surrounding vicinity. Of greatest concern was the occurrence of a major epidemic in Calcutta, the largest outbreak in more than 10 years. The comparatively plentiful transport facilities in India have compounded the problem, as many persons have traveled during the incubation period thousands of miles across India and have reestablished foci of infection in smallpox-free areas. Epidemics, still incompletely reported, developed as far northwest as Jammu and Kashmir and as far east as the states bordering Burma. Efforts throughout India to strengthen the eradication program have been initiated, but without an even more substantial effort in the summer and fall, more serious epidemics could occur in 1974.

Bangladesh

After 18 months of freedom from smallpox achieved through a successful eradication program, outbreaks developed in Bangladesh in February 1972, coincident with the return of smallpox-infected refugees from India. Initially, the outbreaks were largely confined to districts in the southwest of the country, where both national and WHO staff were mobilized in an effort to restrict the outbreaks to these areas.

Because of the large number of outbreaks and problems of transport and communication, effective containment proved difficult. In addition, the summer monsoon, a period which is usually associated with a substantial seasonal decline in smallpox incidence, was exceptionally light, and many foci persisted which might otherwise have spontaneously terminated. Finally, food shortages resulted in considerable population movement and spread of smallpox throughout the country. With recognition of the magnitude of the problem, the government mobilized 20,000 health workers. No definitive decline in incidence has yet occurred, but it is still early to measure the full impact of these efforts.

Other Countries

In Botswana, 8 smallpox cases occurred in a geographically limited focus which had remained undetected for almost 5 months. Intensive containment measures have been taken and are continuing—the last known case had its onset in March 1973. Nepal has reported 17 cases as a result of 5 importations from India. An additional 8 cases which have recently occurred are under investigation as are 11 cases recently reported by Afghanistan. Single case importations also occurred in the French Territory of the Afars and the Issas, the United Kingdom, and Japan: 4 cases occurred in the United Kingdom as a result of a laboratory-acquired infection. (Reported by the World Health Organization: Weekly Epidemiological Record, Vol. 48, No. 18, May 4, 1973.)

EPIDEMIOLOGIC NOTES AND REPORTS TYPHOID FEVER – Alabama

Between July 18 and August 23, 1972, 6 bacteriologically confirmed and 1 clinically suspect case of typhoid fever occurred among children in 3 communities in Alabama. The 5 persons who became ill in July all sought medical attention; I was initially diagnosed as having typhoid fever. The 2 cases which developed in August were in siblings of children who had previously been ill. The Salmonella typhi isolate from the 6 confirmed cases was subsequently identified as phage type E_1 .

Epidemiologic investigation revealed that the children were cousins and that the 5 who became ill in July had spent some time that summer at their grandmother's house in Autauga County, Alabama. Investigation of the house and its environs revealed a fly-infested wooden shack with an outdoor pit privy in disrepair. Water was obtained from a shallow open well. Bacteriologic analysis of water samples from the well revealed coliforms too numerous to count. Cultures of stool specimens from more than 50 family members and contacts were negative, and no carrier responsible for the outbreak could be discovered.

Control measures included treating patients, using special hospitalization funds obtained from the Autauga County Commission, educating families in basic sanitary principles, and making repairs to the grandmother's well.

Nine months later, the Cleveland, Ohio, Department of Health notified the Alabama State Department of Health that a known typhoid carrier was moving from Cleveland to Autauga County. Investigation initiated by the county's public health nurse supervisor revealed that the 70-year-old new-

comer was a sister of the children's grandmother and had visited her in Alabama on July 2-3. During her stay, she had had diarrhea and fecal incontinence, having soiled the floors of her bedroom and the living room. On the day of this incident, the 5 children who became ill later in July visited their grandmother and played on the floor. All 4 stool specimens from the typhoid carrier yielded S. typhi, phage type E₁. (Reported by Edna Earl Tucker, R.N., Public Health Nurse Supervisor, Marion S. Headley, Sanitarian, J. B. Dismukes, M.D., Health Officer, Autauga County Health Department; W. H. Till, M.D., general practitioner, Prattville, Alabama; Jay Renz, Director, Enteric Pathogens Section, Public Health Laboratory, Frederick S. Wolf, M.D., State Epidemiologist, Alabama State Department of Health; Rita Thomas, R.N., Public Health Nurse Supervisor, J. Glenn Smith Health Center, Marie C. Reed, R.N., and Jack Robertson, M.D., Director of Health and Public Welfare, Cleveland Department of Health; John H. Ackerman, M.D., State Epidemiologist, Ohio Department of Health; and an EIS Officer.)

Editorial Note

The source of this outbreak would not have been discovered without the alert utilization of the information provided by the Cleveland Department of Health. It is impossible in retrospect to evaluate the relative importance of fecal soilage of the floor, contamination of water, and the prevalence of flies and possible contamination of food in this outbreak. The 2 cases occurring in August probably represent secondary spread, but the precise means of transmission is unclear.

SURVEILLANCE SUMMARY SHIGELLA - United States, July-December 1972

Between July and December 1972, a total of 7,486 shigella isolations from humans were reported to CDC, for a national incidence rate of 40.6 isolations per 1 million population (Figure 1). This represents an increase of 1,174 (18.6%) over the 6,312 isolations reported for the preceding

Figure 1 ATTACK RATES OF SHIGELLOSIS, BY STATE JULY-DECEMBER 1972

6 months and an increase of 282 (3.9%) over the 7,204 isolations reported for the corresponding months of 1971. The high degree of host specificity of shigella for man is illustrated by the fact that all except 19 of the infections reported in the last 6 months of 1972 occurred in man. The 19 nonhuman isolates were from other primates.

A total of 68.3% of reported isolations were from children under 10 years of age; the highest attack rate was in the 1-4 age group, and the second highest attack rate was in the < 1 year age group.

Of the 25 different serotypes reported, Shigella sonnei was the most common, accounting for approximately 79.2% of all isolations. The second most frequently isolated serotype was S. flexneri 2a (7.6%).

(Reported by the Enteric Diseases Section, Bacterial Diseases Branch, Epidemiology Program, CDC,)

A copy of the original report from which these data were derived is available on request from

Center for Disease Control Attn: Shigella Surveillance Activity Epidemiology Program Atlanta, Georgia 30333

INTERNATIONAL NOTES **OUARANTINE MEASURES**

The following change should be made in the "Supplement-Vaccination Certificate Requirements for International Travel," MMWR, Vol. 22, No. 17:

The Morbidity and Mortality Weekly Report, circulation 30,500, is published by the Center for Disease Control, Atlanta, Ga.

Director, Center for Disease Control Director, Epidemiology Program, CDC Editor, MMWR

David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D.

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. New Caledonia and Dependencies

Smallpox-Delete the note. Yellow fever-Insert code II.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

Address all correspondence to:

Center for Disease Control Attn: Editor

Morbidity and Mortality Weekly Report
Atlanta, Georgia 30333

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

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