

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE WHEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION DATE OF RELEASE: AUGUST 8. 1969 - ATLANTA, GEORGIA 30333

EPIDEMIOLOGIC NOTES AND REPORTS HEPATITIS - Cook County, Illinois

Between May 25 and July 12, 1969, 16 cases of viral hepatitis were reported among patients at a 300-bed community hospital in Cook County, Illinois. Twelve of these patients had been previously hospitalized on a single surgical ward from Feb. 24 to March 31, 1969, and had contact with a nurse who became jaundiced on March 29 (Figure 1). The other four cases represented sporadic occurrences of hepatitis. The 12 associated patients' symptoms included malaise, arthralgias, and jaundice. Hepatitis was confirmed by laboratory tests in all 12, and sera from six of nine patients tested were positive for Australia antigen. The range of possible incubation periods for all patients was from 71 to 114 days with a mean of 92 days. The eight female and four male patients ranged in age from 21 to 60 years. All 12 had undergone

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surgery and two had received blood transfusions; 10 of the 12 had received halothane anesthesia. None gave a history of contact with a known hepatitis case outside the hospital or ingestion of raw shellfish.

In a comparison group of 35 other surgical patients hospitalized on the same ward between February 24 and March 31, none had received transfusions, and 29 had undergone halothane anesthesia. The mean duration of (Continued on page 270)

	31st WEE	K ENDED	MEDIAN	CUMULATIVE, FIRST 31 WEEKS				
DISEASE	August 2, 1969	August 3, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968		
Aseptic meningitis	75	144	72	1,156	1,402	1,104		
Brucellosis	7	9	6	111	125	144		
Diphtheria	3		1	86	100	99		
Encephalitis, primary:			and second and			land and state		
Arthropod-borne & unspecified	43	28	41	620	552	841		
Encephalitis, post-infectious	14	11	13	204	328	533		
Hepatitis, serum	95	96	603	3,065	2,498	1 04 140		
Hepatitis, infectious	963	906	1 003	27,656	25,979	} 24,146		
Malaria	87	42	3	1,633	1,268	192		
Measles (rubeola)	231	226	844	19,540	18,765	186,190		
Meningococcal infections, total	43	24	40	2,210	1,840	1,840		
Civilian	41	24		2,008	1,667			
Military	2			202	173			
Mumps	724	947		65,310	121,236			
Poliomyelitis, total	1	2	3	6	37	37		
Paralytic	1	2	3	6	37	37		
Rubella (German measles)	335	425		47,316	42,181	"		
Streptococcal sore throat & scarlet fever	4,541	4,703	4,202	281,750	279,110	279,110		
Tetanus	5	3	6	82	85	124		
Tularemia	1	2	3	87	123	123		
Typhoid fever	5	9	11	161	185	229		
Typhus, tick-borne (Rky. Mt. spotted fever) .	19	15	15	277	149	150		
Rabies in animals	50	58	70	2.203	2.208	2.740		

TABLE 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Leptospirosis: Kans1 Plague: Psittacosis: Pa1	11 38 3	Rabies in man: Rubella congenital syndrome: Trichinosis: Calif2, Pa1. Typhus, murine: Tex14	6 151

HEPATITIS - (Continued from front page)

hospital stay was 9.4 days for the 12 persons who later developed hepatitis and 6.5 days for the comparison group. Ten of the 12 hepatitis patients had received IM Demerol*, from the involved nurse compared with 22 of the 35 patients in the comparison group. No break in the nurse's aseptic technique could be ascertained.

The nurse most likely contracted her hepatitis from an accidental needle puncture which occurred in the second week of January. The needle was contaminated with blood from a multiply-transfused patient who developed jaundice in the third week of January. The nurse probably transmitted her disease between February 24 and March 31 while caring for the 12 patients. The exact route of transmission is not known. To date, no secondary infections have been reported.

(Reported by Norman J. Rose, M.D., M.P.H., Chief, Bureau of Epidemiology, Illinois Department of Public Health; Colette M. Rasmussen, M.D., M.P.H., Chief, Division of Preventive Medicine, Cook County Department of Public Health; and an EIS Officer.)

*Trade names are provided for identification only, and inclusion does not imply endorsement by the Public Health Service or the United States Department of Health, Education and Welfare.

Editorial Comment:

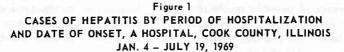
The clinical history, incubation period, and lack of contact with known hepatitis during the 2 months prior to onset of symptoms are consistent with the epidemiology of classic serum hepatitis. Moreover, the presence of Australia antigen in sera from 67 percent of the patients is compatible with the findings of Prince¹ and Blumberg et al² who demonstrated Australia antigen in 77 percent and 41 percent, respectively, of cases of posttransfusion hepatitis. The latter investigator found Australia antigen in only 22 percent of infectious hepatitis cases.

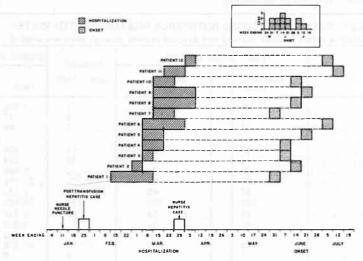
In this outbreak the nurse represented the only exposure common to all 12 patients. In 10 of the 12 cases the parenteral route of infection was a possibility; in all 12 a fecal-oral route might be implicated. The exact method of transmission is not known. Close surveillance of household contacts is being maintained in order to detect potential secondary spread of the disease.

References:

¹Prince, A. M.: An antigen detected in the blood during the incubation period of serum hepatitis. Nat Acad Sci, 60(3):814, July 1968.

²Blumberg, B. S. et al.: Australia antigen and hepatitis. JAMA 207(10):1895, March 10, 1969.





ARTHROPODBORNE ENCEPHALITIS – United States

Record precipitation during the past year in many areas of the country has provided optimum conditions for the occurrence of outbreaks of arthropodborne encephalitis this summer. Because of this possibility, surveillance for human and equine encephalitis cases has been intensified in many states. At the present time, there are two active foci of arthropodborne encephalitis: the Columbia River Basin in Oregon and Washington and north and northcentral Florida. Two counties in northern Oregon (Morrow and Umatilla) and three in southern Washington (Benton, Franklin, and Yakima) – all part of the Columbia River Basin – reported approximately 110 cases of clinical equine encephalitis. Two cases in Washington and three in Oregon were confirmed as Western Equine Encephalitis, with laboratory data on the others pending. No human cases were reported. Surveillance and mosquito control efforts have been initiated.

In Florida, two human cases of Eastern Equine Encephalitis were reported. A 10-year-old girl from Orlando expired on June 18, after a 6-day illness characterized by high fever, nuchal rigidity, severe headache, and convulsions. Eastern Equine Encephalitis virus was isolated from brain material obtained at postmortem. A 6-monthold boy with similar symptoms became ill on July 7. Paired sera specimens taken on July 9 and 22 showed a diagnostic rise in complement fixation antibody titer against Eastern Equine Encephalitis antigen from negative to 1:16. This child is from Tallahassee but probably acquired the disease in neighboring Madison County, where he was visiting during the 2 weeks prior to illness. Madison County has reported Eastern Equine Encephalitis in the past, with four human cases recorded in 1965. In addition, clinical equine encephalitis is occurring in the north and northcentral part of Florida, extending from the western border as far east as Gainesville. Surveillance and mosquito control activities have been increased.

Cases of equine encephalitis were recently confirmed in California, Georgia, Minnesota, and Texas; no human cases were reported.

(Reported by Philip Condit, M.D., Chief, Bureau of Communicable Diseases, California State Department of Public Health; David Dreesen, D.V.M., State Veterinarian, Georgia Department of Public Health; D. S. Fleming, M.D., Director, Division of Disease Prevention and Control, Minnesota Department of Health; Monroe Holmes, D.V.M., Public Health Veterinarian, Oregon Department of Health; M. S. Dickerson, M.D., State Epidemiologist, Texas State Department of Health; J. Byron Francis, M.D. Chief, Division of Epidemiology, Washington State Department of Health; and the Ecological Investigations Program, NCDC, Kansas City, Kansas, and the Viral Diseases Branch, Epidemiology Program, NCDC.)

BLOOD TRANSFUSION INDUCED MALARIA - New York City

Two cases of transfusion induced *Plasmodium fal*ciparum malaria from New York City were reported to the NCDC.

Case No. 1: On March 10, 1969, a 64-year-old diabetic white man developed melena and was admitted to a hospital where he received 10 units of whole blood before undergoing resection of a bleeding gastric ulcer. He was discharged 2 weeks later but was readmitted on April 7 with fever, jaundice, and anemia. A peripheral blood smear taken on April 10 contained large numbers of ring forms and gametocytes as well as occasional schizonts of P. *falciparum*. Quinine, pyrimethamine, and sulfadiazine therapy cleared the asexual parasitemia; however, hemolytic anemia, azotemia, and obtundation became more serious and the patient died on April 22. Autopsy showed cerebral edema, centrilobular necrosis and malarial pigment in the liver, and bile casts in the kidney.

Of the 10 blood donors, nine were located; six were frequent donors who were considered unlikely sources of infection, two were civilians who had never traveled to malarious areas, and the ninth was a veteran who returned from Southeast Asia in March 1968 but denied ever having clinical symptoms of malaria. This man's serum had a 1:256 indirect fluorescent antibody titer against P. falciparum.

Case No. 2: On March 26, 1969, a 50-year-old white man with calcific mitral stenosis and pulmonary hypertension underwent open-heart surgery for replacement of the mitral valve. During the procedure he required 11 units of whole blood, 14 units of plasma, and 8 units of platelets. On April 4 he developed fever, shaking chills, and mild leukopenia, and on April 5 *P. falciparum* ring forms were identified in the peripheral blood. He recovered after receiving standard doses of chloroquine.

The plasma and platelet donors could not be implicated as sources of infection. Of the 11 whole blood donors, five were frequent donors and two of the remaining six donors had a history of travel to malarious areas. One woman had visited the Middle East in 1966. The second donor was a Ghanian citizen who entered the United States in January 1969. To date, efforts to obtain peripheral blood smears and sera from these two individuals have been unsuccessful.

(Reported by Drs. C. C. Wang, S. W. De Ramos, and H. B. Shookhoff, Division of Tropical Diseases, and Dr. V. F. Guinee, Director, Bureau of Preventable Diseases, New York City Health Department.)

INTERNATIONAL NOTES SMALLPOX - Worldwide

From January 1 through June 27, 1969, 19,104 cases of smallpox were reported to the World Health Organization*, a decrease of 44 percent from the 33,887 cases reported during the same period in 1968. Based on current trends, an estimated 45,000 cases will be recorded in 1961 (Figure 2).

At the beginning of 1969, 27 countries were considered endemic for smallpox. Five of these countries recorded cases in 1968 but have recorded no cases in 1969; four of the five, Liberia, Swaziland, Upper Volta, and Zambia, have been reclassified as "provisionally endemic." One country, Yemen, which did not record cases in 1968 has recorded cases in 1969.

Brazil is the only country in the Americas reporting smallpox cases to date in 1969. The Brazilian eradica-(Continued on page 276)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED AUGUST 2, 1969 AND AUGUST 3, 1968 (31st WEEK)

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AREA	MENIN- GITIS	BRUCEL- LOSIS	DIPHTHERIA	Primary unsp.	including cases	Post- Infectious	Serum	Infec	tious	MAL	ARIA
and some state in the state	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969
UNITED STATES	75	7	3	43	28	14	95	963	906	87	1,633
NEW ENGLAND	Sec. 1.5		- C	3	-	- AND AND	4	90	70	10	59
Maine*	distant. In	-		1.1	-	A 6-10.0	1	7	6	-	4
New Hampshire	-		-	-	-	-	-	1 .	-	-	2
Vermont	en e res		1.00-000-00			-		2	8	-	
Massachusetts	- 1		10 million 1	2			2 2	48 16	25 12	5	40
Rhode Island	L. 4. 114	11.35 11-9	100211-002	1		41.92944	-	16	12	5	10
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New York City	1000	7 N	Come and Dec	3	2	1000	24	71	47	100 H 10 P	16
New York, Up-State.	100 F 100	The second	1			61 m	3	26	25	edite file	28
New Jersey*			A Street	4	-	-	4	53	14	6	72
Pennsylvania	1	1	-	2	1	-	3	40	25	5	68
EAST NORTH CENTRAL	6			3	8	-	8	133	161	11	166
Ohio	3	-		3	7		4	27	35	2	16
Indiana	-		1. 1 Martin	100-100	14.2 y = 112	i macu.	enem se	6	16	1	14
Illinois Michigan	3	State Street	565.000.000	L Rolling to a		A. Station	3	44 49	43 55	1	98
Wisconsin	-	-	1.00		1	-		7	12	and the local	1
WEST NORTH CENTRAL	5	3	- mushir	3	2			29	39	1	108
Minnesota	4	2		-	1		1.1	5	12	1000	7
Iowa	1	1	100-1010	1		_	Contraction of the	14	4		9
Missouri	1 100201000	10. 10 C (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	II avlay	10112-02	1	100 T 21	solution in the	5	10	introduction in a	28
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South Dakota	1.000		-		-	-		Contract 1	3		3
Nebraska Kansas	B 4 7			_	-	_		4	8	1	58
and the second se	16	Alterna II									170
SOUTH ATLANTIC Delaware	1	1		3	1		9	117	106 5	15	470 2
Maryland	7	-	_	PULLING STREET	-	_	2	35	14	4	23
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West Virginia	4		d stars or		-	could per	1	15 16	2	8	220
North Carolina South Carolina			-	2		COLUMN TRANSPORT	- Contraction of the	6	1	0 —	220 41
Georgia	-	-	-	-				7	53	3	142
Florida	4		-	1	1	1	4	31	16	-	23
EAST SOUTH CENTRAL	9	1	-	5	-	1	and second provide	61	44	Sector Sector	63
Kentucky	2	- 2.5	10. 11 I I I I I I I I I I I I I I I I I I	-	-	1		20	9	CONTRACTOR OF A	53
Tennessee	-cm/1 = iv)	1	50 - W	2		Rock - Decision	(10.1-1) Mar	21	20	2111 - MIL	10
Alabama.*	6	4. 10	1000 1000	3		107.20	State & B	8	6	trained a	8
Mississippi	0.3.25	CONTRACTOR	A GAR	3		- bol-man	THE N	12	9	1.1271.18	2
WEST SOUTH CENTRAL	10	CHEVEL NA	2	3	3	2	3	88	58	12	77
Arkansas			i Same	-	-	-	-	8		-	8
Louisiana Oklahoma	1	I I		2	3	1	2 1	14	17 2	1 9	32 30
Texas.	9		2	1	_	2	-	63	39	2	7
MOUNTAIN	5		1	1	3		7	57	29	6	110
Montana	4	_		_	-		<u>′</u>	57		1	118
Idaho	-	-	-	-	1	_	1	1	-		3
Wyoming	1 4	-	-		-			1	1	-	-
Colorado	1		(Ineces	1	2		3	13	3	5	100
New Mexico Arizona	-	_	ī	appendix	5 - 200	Them .	-	10	6 5	-	6
Utah	-		1		_		3	7	6	1.5.	1
Nevada	-	1 - 21		1911-1911	-	196-199	1.494.	4	Heat to the	"HEROY	4
PACIFIC	22	2	1.111.101	13	8	10	30	198	288	21	388
Washington	(mail and a		ng-tionis				9	22	19	-	5
Oregon	_	-	al million		3	1	Section 1	14	21	1	8
California	22	2	1.2	13	5	9	21	162	223	8	292
Alaska.* Hawaii	4.5	-		-	1			-	2	12	2 81
				and the second se							

*Delayed renorts: Aseptic meningitis: Alaska delete 23

Hepatitis, infectious: Me. 1, N.J. delete 9, Ala. 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 2, 1969 AND AUGUST 3, 1968 (31st WEEK) - CONTINUED

the second second	MEA	SLES (Rube	ola)	MENINGO	MENINGOCOCCAL INFECTIONS, TOTAL			Р	RUBELLA		
AREA	Cumulative				Cumulative			Total		Para	lytic
	1969	1969	1968	1969	1969	1968	1969	1969	1969	Cum. 1969	1969
UNITED STATES	231	19,540	18,765	43	2,210	1,840	724	1	1	6	335
	25	1,061	1,123	3	74	92	93	No. 2 and	_	1	33
VEW ENGLAND Maine.*	23	5	35		6	6	3	-		1 -	6
New Hampshire	-	237	141		2	ž		-	2.53	-	1 1
Vermont	1.1	3	2			i i			-12.0		1
Massachusetts *	10	202	349		31	41	39			-	9
Rhode Island		22	5	2	8	7	7	1.00	-		2
Connecticut	15	592	591	1	27	30	44	-144	-	1	16
IDDLE ATLANTIC	71	7,296	3,723	10	353	329	90	Alexa			29
New York City	40	4,821	1,850	1	71	68	88	- 25			9
New York, Up-State.	6	582	1,184	4	60	55	NN	1.00			10
New Jersey	1	849	580	3	145	118	2	-			2
Pennsylvania	25	1,044	109	2	77	88	NN		- 11	-	8
				1 .			1.07	la una de			
CAST NORTH CENTRAL	49	2,032	3,647	4	301	220	136			_	54
Ohio.*	5 10	359 465	287 643	2	115 34	60 26	20 23	-	1.1	er an the sea	12
Indiana Illinois	23	465	1,342		41	20 51	15	1	1		4
Michigan	23	221	253	1	92	63	28		1 2	1.1	3
Wisconsin	9	535	1,122	i '	19	20	50	1.00	- 41.5	_	22
IFOR NORTH COMPANY		503	272				10	1 Marca			-
EST NORTH CENTRAL	3	507	372 15	1	116 25	97 22	19	-	-	1	7
Minnesota	1	5 325	96	1 - 2 -			4	1.1			4
Iowa.		22	81	1 1	15 51	6 31	6	_	_		2
Missouri.* North Dakota	1.1	10	128	1 2 3	51	3	-		-	1	-
South Dakota		3	4		1	5	NN	_	_	-	-
Nebraska	2	135	38	-	9	6	5	1.00	-	-	1
Kansas	1 F.	7	10	1	15	24	-	_ = 10	-	1	an maket-
Frank Land Workshow						-					
SOUTH ATLANTIC	17	2,426	1,448	9	393	378	95	-	-	1	66
Delaware	1	373	15	1.	8	7	8	-	-		4
Maryland	61 I.	65	94		35	28	2		-		3
Dist. of Columbia	9	881	6 293	1 1 3	9 49	14 30	38	1.1	_		14
Virginia West Virginia	3	177	269		18	9	28	_			23
North Carolina	1	307	281		66	75	NN			_	
South Carolina		110	12	- 1	55	56	5	- 65	-	-	1
Georgia	1	1	4	5	69	73		1			-
Florida	4	512	474	2	84	86	14	- 611		1	21
	1.1	105	170		120	150		1 1 200			37
AST SOUTH CENTRAL	1	105 61	479	2	139 49	159 64	41		1	1.1	11
Kentucky		17	57		52	51	30	1	1 2 10	1	25
Tennessee Alabama	<u> </u>	4	92	2	23	24	1	1	1 1	1	1 -
Mississippi	31 L A	23	231	-	15	20	1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			1
EST SOUTH CENTRAL	47	4,337	4,613	3	297	296	73		-	2	32
Arkansas		16	2		29	20	-	-			No. of Cold State
Louisiana	1	120	10	1	79	83		1.12	1.1		-
Oklahoma Texas	47	136 4,065	111 4,490	2	29 160	49 144	1 72	1 2 20	1 31	2	32
-c.a3		4,005	4,450	-	100					-	1
OUNTAIN	6	790	954	2	41	29	94		-	-	30
Montana	- T	16	58	2	8	3	1	1.115.134			1
Idaho	6 T.	88	20		6	11	1	1.15	10.22		-
Wyoming	÷ 1.	136	51 492	2 년 12	- 7	10	33	1 - 2 -		1.1	8
Colorado New Mexico	4	236	492		6	-	19	1 2	-	1	14
Arizona	2	306	219	. <u> </u>	10	1	26			1 2	4
Utah	-	500	219	a Lant	2	1	14	1.0		-	3
Nevada	21 ÷ 1	— İ	5	1-	2	3	_	1.1	-	-	-
the second second second								1 Dimes			
PACIFIC	12	986	2,406	9	496	240	83	-		-	47
Washington	- 1	58	515		51	37	11	-	-		4
Oregon	5	197 688	483 1,371	1 8	12 412	18	3 62	-	-		24
California Alaska	-	688 8	2	-	412	172	62 1	1 - 2		1 2	5
Warder	6	35	35	_	10	11	6	- 12	-	1	11
Hawaii											

*Delayed reports: Measles: Mass. delete 1 Meningococcal infections: Ohio delete 1 Mumps: Me. 9, Ohio 2 Rubella: Me. 4, Mo. 32

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 2, 1969 AND AUGUST 3, 1968 (31st WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TULA	REMIA		HOID VER	TICK	S FEVER -BORNE . Spotted)		IES IN IMALS
and the second se	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES	4,541	5	82	1	87	5	161	19	277	50	2,203
NEW ENGLAND	589	-		-	14	1	6	100 C	1	1.0	14
Maine.*	6		1.2	1			1 -		1. I I I I I I I I I I I I I I I I I I I	1	3
New Hampshire	25	- 22			14		1 2		1	_	2
Vermont Massachusetts	87		-		12	1	4	- 1 - 1 - 1 - 1			1
Rhode Island	24		-		- 1		1				26.14
Connecticut	447	-		- 1 - 12				- C -			3
MIDDLE ATLANTIC	176	1	13	_	4	1	17	68 F 1	27	5	99
New York City	12	1	6	1.1	1	1	8		_		_
New York, Up-State.	135	-	3	-	3	_	5		5	3	92
New Jersey	NN	1.0	2			0	- [*] -	1	6	1	-
Pennsylvania	29	-	2	-	1.1-2		4	1	16	2	7
EAST NORTH CENTRAL	380		11		7		14	-	10.2	5	150
Ohio	51	-	1		<u>_</u>		7	-		_	44
Indiana	98	- 11	-	-	1	-	-			1	41
Illinois	68	-	7	-	2		3		-		26
Michigan	97		3	-		1.1.1.1.1	4			1	5
Wisconsin	66	- 11			4		50 D		- 04	2	34
WEST NORTH CENTRAL	178	1.00	5		10		6	1	8	6	414
Minnesota	9		1				2	-	-	2	104
Iowa.*	86	-	_		-			1	7	2	61
Missouri	2	-	1	-	7	-	2	-		1	108
North Dakota	30	-	-	_			-	-		1	53
South Dakota	9		-	-			1 7	-	1		24
Nebraska	32 10	-	3	-	- 3	1		1.00		PUT	10
Kansas	10	~	2	-	,			-		26.00	54
SOUTH ATLANTIC	576	3	17		20	1	29	15	159	11	572
Delaware	7	-	-	-	1.1	1	2	St	3		- 10
Maryland	59	1	1		-	-	4	2	36	60 C 1	-
Dist. of Columbia	1		2		-		1	-	50	-	
Virginia	147 126	21	- 1	2.5	4	-	1	6	52 5	6 1	297 87
West Virginia North Carolina	NN	-	2		5	_	6	3	42		4
South Carolina	74	-	ī	- 1	2	- 1	1	1	11	100 - 01	1000-0
Georgia	4	2	2		3		7	3	10	1	53
Florida	158	-	8	-01	4	-	7		-	3	131
EAST SOUTH CENTRAL	965		13	-	9	1	17	2	35	6	331
Kentucky	140	-	6	_	1		2	1 1	5	2	173
Tennessee	709	4.00	4	- 1-00	8		12	2	29	1	114
Alabama	42	1. AC	2	-	 – 36 	- 1 1	1		1	3	41
Mississippi	74	1.5.2	1	-97	1		2			1.1.4	3
WEST SOUTH CENTRAL	542	1	15	1	15		21	10.5	31	13	301
Arkansas	2	-		1.1	1	1	10	-	6		23
Louisiana	1		6	1	4		2	171 ¹ - 1	-	3	22
Oklahoma	8	-	1	-32	6	- 1	-		21	- in - in -	45
Texas	531	1	8	-146	4		9	10111 - B	4	10	211
MOUNTAIN	1,022		2	1-12	8	1	21	and the	12	1.1.1	95
MOUNTAIN	74	1.1	1	12	- -	-			-		95
Idaho	41	11 - 10	-	12	1		3	a - 1	3	_	-
Wyoming	2	1.20		-	2		5		-		48
Colorado	630	-	1			1	3	17 S-4	7	Sec. 2.	3
New Mexico	140		-		a.: 1 -:	1.400	5	(C) (-) (9
Arizona*	42		-		-		4	1212-11	-	1000	22
Utah Nevada	93	1.1	-	12.7	5	1	1	1	2	1.1	3 10
Hevaua											
PACIFIC	113	1.00	6		1. E P	102	1	-	5	3	227
Washington	14	10.51	1		- E -		1		3	CARGE TH	2
Oregon	41	26.0	- 5	-	_		6		- 2	-	2 223
California	26		-	-		12.3	23	1 2		3	223
Alaska Hawaii	32	-		_		1. 1. 1	1 1	1 2	1.1.1	19.23	1
		-				-					1

*Delayed reports: SST: Me. 10, Ark. 5, Ariz. 60 Tetnus: Mont. 1, Ariz. delete 1 BISF: Iowa 4 Rabies in animals: Ark. 2

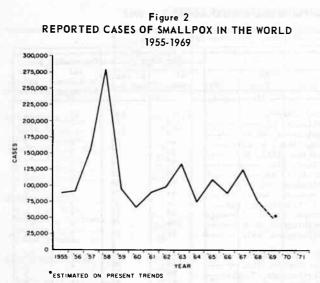
Week No. 31

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 2, 1969

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

	A11 Ca	uses	Pneumonia	Under		A11 C.	auses	Pneumonia	Under
Area	A11 Ages	65 years and over	and Influenza All Ages	l year All Causes	Area	All Ages	65 years and over		l year All Causes
NEW ENGLAND:	630 173	365 85	27 11	36	SOUTH ATLANTIC:	1,195	610	41	94
Boston, Mass	33	22	5		Atlanta, Ga	138	61	10	
Bridgeport, Conn	21	13	_	-	Baltimore, Md	275 46	142	2	15
Cambridge, Mass Fall River, Mass	21	11		2	Charlotte, N. C	80	45	3	6
Hartford, Conn	49	31		2	Jacksonville, Fla Miami, Fla	83	46	-	2
Lowell, Mass	33	22	1	2	Norfolk, Va	56	28	3	2
Lynn, Mass	22	15			Richmond, Va	92	54	6	6
New Bedford, Mass	26	20		_	Savannah, Ga	41	20	1	2
New Haven, Conn	79 47	- 36 25	1	22 2	St. Petersburg, Fla	76 55	56	3	1
Providence, R. I Somerville, Mass	13	11	<u> </u>	-	Tampa, Fla.	204	76	5	41
Springfield, Mass	46	29	5	1	Washington, D. C Wilmington, Del	49	29	3	5
Waterbury, Conn	24	21	-	-	writiningcon, ber		1		
Worcester, Mass	43	24	2	3	EAST SOUTH CENTRAL:	727	393	32	56
	2 101	1 027	117	147	Birmingham, Ala	118	66	2	6
IDDLE ATLANTIC:	3,181 40	1,837	117	147	Chattanooga, Tenn	59	35	4	5
Albany, N. Y	43	26	2	1	Knoxville, Tenn	51 141	33	1	3
Allentown, Pa Buffalo, N. Y	139	76	7	9	Louisville, Ky Memphis, Tenn	168	79	6	25
Camden, N. J	48	25	2	5	Mobile, Ala	53	26	1	6
Elizabeth, N. J	33	19	- 1-	-	Montgomery, Ala	40	26	3	
Erie, Pa	35	22	3	3	Nashville, Tenn	97	47	1	6
Jersey City, N. J	67	36	3	5			and the little		
Newark, N. J	81	37	5	5	WEST SOUTH CENTRAL:	1,199	596	39	84
New York City, N. Y	1,460	842	48	65	Austin, Tex	50	34	2	1
Paterson, N. J	43 588	25 324	2 8	5 20	Baton Rouge, La	32	20	2	2
Philadelphia, Pa	193	118	14	- 20	Corpus Christi, Tex	24 199	101	10	14
Pittsburgh, Pa Reading, Pa	56	38	2	2	Dallas, Tex El Paso, Tex	42	20	5	8
Rochester, N. Y	112	72	6	5	Fort Worth, Tex	68	32	2	5
Schenectady, N. Y	20	16	1	-	Houston, Tex	182	75	2	14
Scranton, Pa	41	29	4	3	Little Rock, Ark	63	35	3	1
Syracuse, N. Y	76	46	4	4	New Orleans, La	162	68	4	11
Trenton, N. J	50	27	1	4	Oklahoma City, Okla	120	65	1	7
Utica, N. Y.	24	17	1	1	San Antonio, Tex	136	65	1	7
Yonkers, N. Y	32	19	2	-	Shreveport, La	54	29	2	8
AST NORTH CENTRAL:	2,418	1,305	72	124	Tulsa, Okla	67	37	1	0
Akron, Ohio	54	32	1	3	MOUNTAIN:	476	263	18	39
Canton, Ohio	45	25	- 3	1	Albuquerque, N. Mex	39	19	2	4
Chicago, Ill	627	318	14	37	Colorado Springs, Colo.	22	17	4	2
Cincinnati, Ohio	172	100	2	5	Denver, Colo	124	59	5	15
Cleveland, Ohio	175	89	1	12	Ogden, Utah	19	13	2	1
Columbus, Ohio	96	47	8	5	Phoenix, Ariz	119	66		6
Dayton, Ohio	84 359	54	2 8	1	Pueblo, Colo	24	15		1
Detroit, Mich Evansville, Ind	47	35	а 1	5	Salt Lake City, Utah	66 63	42	2	6
Flint, Mich	47	25	3	4	Tucson, Ariz	05	32		1
Fort Wayne, Ind	38	20	ĩ	3	PACIFIC:	1,602	935	35	69
Gary, Ind	31	14	1	2	Berkeley, Calif	13	8	Ĩ	-
Grand Rapids, Mich	39	22	2	1	Fresno, Calif	54	30		3
Indianapolis, Ind	149	78	4	7	Glendale, Calif	28	17	-	1
Madison, Wis	40	21	2	1	Honolulu, Hawaii	48	19	5	7
Milwaukee, Wis	131 51	82 26	2	7	Long Beach, Calif	89 553	328	3	21
Peoría, Ill.	34	20	6	1 2	Los Angeles, Calif	77	48	2	3
Rockford, Ill South Bend, Ind	44	26	3	1	Oakland, Calif Pasadena, Calif	31	25	1	
Toledo, Ohio	99	61	7	4	Portland, Oreg	125	82	1	4
Youngstown, Ohio	56	30	1	3	Sacramento, Calif	74	45	3	2
					San Diego, Calif	98	52	3	11
EST NORTH CENTRAL:	858	503	29	51	San Francisco, Calif	161	89	5	6
Des Moines, Iowa	57	39	1	2	San Jose, Calif	39	24	5	-
Duluth, Minn	26	17	4	1	Seattle, Wash	136	77	1	2
Kansas City, Kans	55 136	28 79	1 9	9	Spokane, Wash	39 37	27	2	1 2
Kansas City, Mo Lincoln, Nebr	20	15	9	8	Tacoma, Wash		20	-	<u>+</u>
Minneapolis, Minn	119	70	_	6	Total	12,286	6,807	410	700
Omaha, Nebr	78	47	2	9	10121				
St. Louis, Mo	248	131	3	14	0	mulative 1	otals		
St. Paul, Minn,	59	38	-	1	including report			previous we	eeks
Wichita, Kans	60	39	9	1	All Causes, All Ages All Causes, Age 65 and			411,	660 720

SMALLPOX - (Continued from page 271)



tion program has been intensified during the past year, with almost 35 million vaccinations administered since the program began. A total of 861 cases have been recorded since January 1969, a decrease of 30 percent from the number recorded for the same period in 1968.

Smallpox incidence in the 19 countries of West and Central Africa continues to decline and reached record low levels during the first half of 1969. Only three countries, Nigeria, Sierra Leone, and Togo, have reported cases since April. Over 80 million persons have been vaccinated since the regional eradication program began in January 1967. Based on current trends in smallpox incidence in this area and considering that the initial vaccination program will essentially be completed during 1969, the West and Central African countries could become free of smallpox sometime this year.

Recorded cases of smallpox during 1969 in East and Southern Africa declined more than 50 percent from the number reported in 1968 for the same period; smallpox incidence is presently at a record low.

Smallpox incidence in Asia declined by 40 percent in 1968 and appears to be declining at a comparable rate in 1969. There appears to be a modest decline in incidence of smallpox in India, although reporting is incomplete and surveillance activities limited. In Indonesia an intensive eradication program which began in July 1968 has progressively been extended throughout the country; however, the reported incidence to date is little different from that in 1968. Intensified and more complete reporting in Afghanistan and Nepal resulted in an increase in notifications in 1968 and a further increase in 1969 for Nepal. A marked decline in smallpox has been observed in 1969 in East Pakistan which in 1968 recorded its highest incidence in a decade. West Pakistan has reported an increase in smallpox in 1969.

(Reported by the Smallpox Eradication Program, NCDC). *Source: The World Health Organization Weekly Epidemiological Record, 44(27):423-444, 1969.

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ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING RBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

NATIONAL COMMUNICABLE DISEASE CENTER ATTN: THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT ATLANTA, GEORGIA 30333

THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE NOTE: BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL 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 SUCCEED Y THE INDIVIDUAL WEEK CONCLUDES STATE ING FRIDAY

