

MORBIDITY AND MORTALITY WEEKLY REPORT

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Imported Malaria – Louisiana, California

The city of New Orleans and the state of California have recently reported cases of malaria in Indochinese refugees.

Louisiana: In the period November 1, 1979-June 11, 1980, 36 (3.6%) Indochinese refugees (out of a total of 1,001 who had arrived in the New Orleans metropolitan area during that period) were diagnosed as having malaria.* All but 1 were admitted to Charity Hospital of New Orleans. The diagnosis of *Plasmodium vivax* malaria was subsequently confirmed in 35, and *P. falciparum*, in 1.

The group included 21 males and 15 females, ranging in age from 2-55 years, with a median of 8 years. A range of 5-98 days (median, 35 days) had passed between their arrival into the United States and presentation at the hospital.

The patients were encamped at various refugee camps in Indonesia; however 25 (69%) had spent some time at Sulgai Walang, a camp on Bintan Island, and 8 (22%) on a nearby island, Galang. All patients denied having malaria before they left Vietnam; most patients became ill while in Indonesia. Some received treatment in Indonesia, but the type and duration of therapy are not known.

Family members of malaria patients are being asked to come to special clinics for screening and/or chloroquine and primaquine treatment if they have a history of fever. Information is also being disseminated to members of the Vietnamese community, urging them to seek medical attention if they have symptoms consistent with malaria. State and parish health authorities and other appropriate agencies are coordinating mosquito-surveillance and control procedures in the areas housing these patients.

The Indonesian Government has closed Bintan Island as a refugee holding center. California: From January 1-June 7, 1980, California reported 251 cases of malaria, compared to 93 in the same period last year. Most of this year's increase is attributed to Indochinese refugees, who have accounted for 151 (60%) of the cases. Of these, 117 (77%) were Vietnamese, 12 (8%) were Kampuchean, 2 (1%) were Laotian, and 20 (13%) were of other nationalities. Travel histories were not available for all 151 patients; however, 86 (57%) had a history of staying in Indonesian camps.

In 1979, Indochinese refugees accounted for 41 (13%) of the 318 malaria cases re-Ported in California. Almost two-thirds of these cases were in Vietnamese; the remainder were in Kampucheans and Laotians. Patients ranged in age from 5 to 64 years, with a median age of 20 years. The male/female ratio was 4:1; most patients resided in major urban coastal areas of California.

^{*}By contrast, no malaria cases were reported among the thousands of Vietnamese refugees who immigrated to the New Orleans area in 1975-76.

Malaria -- Continued

The distribution of *Plasmodium* species in the refugee cases in 1979 was *P. vivax*, 29 (71%); *P. falciparum*, 8 (20%); *P. malariae*, 2 (5%); mixed *P. falciparum* and *P. vivax*, 1 (2%), and species not determined, 1 (2%). In 1980 refugee cases, the distribution of *Plasmodium* species was *P. vivax*, 125 (83%); *P. falciparum*, 12 (8%); *P. malariae*, 6 (4%); mixed *P. falciparum* and *P. vivax*, 3 (2%) and species not determined, 5 (3%).

In 1979, patients had onset of malaria symptoms an average of 3 weeks after arriving in the United States, with a range of 2 days to 3 months; however, the date of onset for those with *P. falciparum* always occurred within the first 2 weeks.

In 1980, the onset of symptoms ranged from 0-47 weeks after arriving in the United States for *P. vivax*, 0-7 weeks for *P. falciparum*, and 5-10 weeks for *P. malariae*.

Reported by WL Williams, MD, MPH, TM, Charity Hospital of New Orleans; L McFarland, MD, MPH, CT Caraway, DVM, State Epidemiologist, Louisiana State Dept of Health and Human Resources; D Kim Tam, Sister B Lege, Catholic Charities; RR Roberto, MD, DTPH, RA Murray, MPH, the California State Dept of Health Services, in the California Morbidity Weekly Report, March 14, 1980; Parasitic Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: During the first quarter of 1980, an increased number of reported malaria cases has been noted in the United States. This increase has been primarily among Indochinese refugees, with the predominant species being *P. vivax*. The ethnic group most commonly affected is Vietnamese refugees who have been, before their arrival in the United States, in certain Indonesian camps where malaria is endemic. The frequency of clinical illness in Vietnamese from urban areas, once they have been exposed to malaria in Indonesia, reflects their lack of protective immunity to malaria. By contrast, most Laotian and Kampuchean refugees come from rural areas that are hyperendemic for malaria, and thus they are not as susceptible.

CDC is currently assessing the prevalence of malaria parasitemia among refugees. At the present time, there has been no reported transmission of malaria from Indochinese refugees through domestic mosquitoes to U.S. citizens. Suspected cases of introduced malaria should be promptly reported to the state health department and to the Parasitic Diseases Division, Bureau of Epidemiology, CDC.

Follow-up on Mount St. Helens

Mount St. Helens erupted for the third time on June 12-13. The National Institute for Occupational Safety and Health (NIOSH) has begun sampling the ash from this eruption so that its chemical and physical properties can be compared to previous ashfalls.

Meanwhile, surveillance reports from 21 Washington hospitals, all located in areas with ashfall, indicate an increase in emergency room (ER) visits and hospital admissions for pulmonary conditions,* primarily after the first (May 18) eruption in the most heavily affected areas. The survey included 11 eastern and 10 western Washington hospitals for the period May 11-June 7.

^{*}These included pneumonia, asthma, bronchitis, chronic obstructive pulmonary disease, and emphysema; upper respiratory infections were excluded.

Mount St. Helens -- Continued

In the eastern hospitals, located in areas affected by the eruption on May 18, admissions for pulmonary conditions increased abruptly in areas with moderate-to-severe ashfall (Table 1). The greatest increase (from 2 to 13 admissions) occurred in the week immediately following the eruption in Ritzville, the town that received the most ashfall. In Ellensburg and in 1 hospital in Yakima, the increase in admissions for pulmonary conditions persisted through the second and third weeks after the eruption. But in Ritzville, Moses Lake, and Othello, the number of pulmonary admissions returned to pre-eruption ranges by the third week after the eruption (June 1-7).

The eastern Washington hospitals experienced a concurrent increase in ER visits for pulmonary conditions after the May 18 eruption, again primarily during the week May 18-24. The most notable increases were in Ritzville (from 1 to 34 visits), Moses Lake (8 to 21),

Location	Cumulative ashfall (Inches)	Admissions	May 11-17	May 18-24*	May 25-31	June 1-7
		Total	6	25	10	8
Ritzville	2-3	Pulmonary	2	13	1	1
		Other	4	12	9	7
		Total	67	41	45	50
Moses Lake	2-3	Pulmonary	3	5	7	1
201		Other	64	36	38	49
100		Total	36	38	32	35
Othello	11/4-11/2	Pulmonary	9	17	4	6
-		Other	27	21	28	29
		Total	195	177	177	207
Yakima - 1	1/2-3/4	Pulmonary	8	19	12	13
		Other	187	158	165	194
200		Total	288	237	248	273
Yakima - 2	1/2-3/4	Pulmonary	7	14	7	8
		Other	281	223	241	265
Ter Law		Total	42	58	38	NAt
Pullman	3/4	Pulmonary	2	1	4	NA
6.		Other	40	57	34	NA
Sec.		Total	9	2	6	6
Soap Lake	1/2	Pulmonary	0	0	1	1
		Other	9	2	5	5
		Total	21	36	21	36
Ellensburg	1/2	Pulmonary	1	5	4	5
		Other	20	31	17	31
18		Total	24	12	24	21
Ephrata	3/8-1/2	Pulmonary	3	1	5	0
2010-001		Other	21	11	19	21
Lesson and		Total	316	266	301	NA
Spokane - 1	1/4-1/2	Pulmonary	NA	NA	NA	NA
		Other	NA	NA	NA	NA
		Total	594	468	573	NA
Spokane - 2	1/4-1/2	Pulmonary	NA	NA	NA	NA
1		Other	NA	NA	NA	NA

TABLE 1. Weekly admissions for hospitals in eastern Washington, May 11-June 7, 1980

*The first volcanic eruption with ashfall was on May 18. †NA = not yet available.

Mount St. Helens -- Continued

Othello (10 to 21), Yakima (36 to 89 at 1 hospital, 13 to 61 at the other), and at 1 Spokane hospital (15 to 55).

The 10 western Washington hospitals included in the surveillance system were located in areas affected by the May 25 eruption: Centralia (ashfall, 1 inch); Chehalis (1/2-3/4 inch); Longview (2 hospitals; 1/4 inch); Aberdeen (2 hospitals, 1/8-1/4 inch); McCleary (1/8 inch); Shelton (1/8 inch); and Vancouver (2 hospitals, 1/8 inch). Unlike the eastern hospitals, these hospitals experienced no significant increase in admissions for pulmonary conditions, although Centralia, which had the heaviest ashfall, had a substantial increase in ER visits (from 11 and 17 to 44).

Reported by J Allard, PhD, JA Beare, MD, Washington State Dept of Social and Health Services; NIOSH; Chronic Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: A number of factors may account for the differences in morbidity between the eastern and western hospitals, including the quantity and composition of the ash and the amount of rain after the eruption.

	24th W	EEK ENDING		CUMULATIVE, FIRST 24 WEEKS				
DISEASE	June 14, 1980	June 16, 1979	MEDIAN 1975-1979	June 14, 1980	June 16, 1979	MEDIAN 1975-1979		
Aseptic meningitis	99	121	65	1,458	1,289	960		
Brucellosis	2	3	3	76	47	87		
Chickenpox	5,792	4,687	4,170	139,655	157,700	138,833		
Diphtheria	-	-	1	2	4	48		
Encephalitis: Primary (arthropod-borne & unspec.)	13	15	15	271	238	289		
Post-infectious	6	6	7	88	116	116		
Hepatitis, Viral: Type B	409	296	296	7,611	6,399	6,842		
Type A	584	527	607	12,110	13,386	14,674		
Type unspecified	330	163	184	5,419	4,576	3,969		
Malaria	43	14	11	761	246	193		
Measles (rubeola)	515	483	1,120	10,743	9,973	19,755		
Meningococcal infections: Total	54	63	36	1,463	1,508	1,003		
Civilian	54	63	36	1,457	1,493	998		
Military	-	_		6	15	15		
Mumps	185	387	493	6,222	9,458	13,781		
Pertussis	31	15	29	492	549	549		
Rubella (German measles)	107	360	360	2,700	9,212	13,436		
Tetanus	1	2	2	23	26	26		
Tuberculosis	605	620	629	12,325	12,509	13,805		
Tularemia	8	13	4	52	78	53		
Typhoid fever	4	8	8	157	199	152		
Typhus fever, tick-borne (Rky, Mt. spotted)	56	37	41	256	239	237		
Venereal diseases:								
Gonorrhea: Civilian	19.846	18,342	19.451	432,431	434,391	433,130		
Military	370	448	448	12,295	12,551	12,551		
Syphilis, primary & secondary: Civilian	562	431	431	11,956	11,008	11,008		
Military	2	2	3	144	138	140		
Rabies in animals	123	89	64	3,042	2,196	1,353		

TABLE I. Summary – cases of specified notifiable diseases, United States (Cumulative totals include revised and delayed reports through previous weeks.)

TABLE II. Notifiable diseases of low frequency, United S	tates	
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	CUM. 1980	A REAL PROPERTY AND A REAL	CUM. 1980
Anthrax	-	Poliomyelitis: Total	5
Botulism	20	Paralytic	3
Cholera	8	Psittacosis (Ariz. 2, Calif. 1)	36
Congenital rubella syndrome	- 38	Rabies in man	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Leprosy (Md. 1, Fla. 1, Calif. 2)	80	Trichinosis (Maine 1, La. 15)	63
Leptospirosis (Okla. 1)	24	Typhus fever, flea-borne (endemic, murine) (Tex. 3)	23
Plague (N. Mex. 1)	2		

All delayed reports and corrections will be included in the following week's cumulative totals.

BOLL IN THE	ASEPTIC	BRU					ENCEPHALITIS			TIS (VIRA	L), BY TYPE		
REPORTING AREA	MENIN- GITIS	CEL- Losis	POX	DIPHT	THERIA	Pri	mary	Post-in- fectious	B	A	Unspecified	MA	ARIA
	1980	1980	1980	1980	CUM. 1980	1980	1979	1980	1980	1980	1980	1980	CUM. 1980
UNITED STATES	99	2	5,792	-	2	13	15	6	409	584	330	43	761
NEW ENGLAND	1	1	768	_	-	1	z	-	24	14	6	1	59
Maine	-	-	14	-	-	-	-	-	1	-	-	-	12
N.H.	-	-	27	-	-	-	-	-	-	-	-	-	6
VL.	-	-	47	-	-	-		-	1	5	7	-	-
B.I.	1	1	251	_	-	-	L		- 1	2	<u> </u>		20
Conn.	-	-	383	-	-	1	1	-	4	ĩ	-	1	9
MID. ATLANTIC	9	-	308	-	1	2	2	1	64	47	30	7	103
N.Y. City	6	-	135	-		1	-	1	13	14	2	Z	19
N.J.	L ALA		160	-	1	1	1.7		13	15	1.		26
Pa.	2	-	13	-	-		i	-	13	12	2	3	28
E.N. CENTRAL	5	-	3,567	-	1	-	1	-	42	81	19	7	34
Ohio	-	-	166	-	-	-	-	-	6	13	8	-	5
ina.	-	-	352	_	-	-	-	-	13	9	3		3
Mich	12	-	1,054	-		-		-	.5	22	2	2	
Wis,	2	- 2	746	2	1	-	1	-	-17 1	6	2	2	6
W.N. CENTRAL	4	-	304	-	_	-	-	1	8	15	9	-	29
Minn.	-	-	1	-	-	-	-	1	-	-	-	-	13
IOW8	-	-	102	-	-	-	-	-	1	3	4	-	3
N. Dak	-	-	17	-	-	-	-	-	3	Z	3		1
S. Dak.	2	-	3	Ξ				-	ī	1	-	-	1
Nebr. Kans.	-		176	-	- 2 -		-		1	1	- 2	- 2	3
S ATLANTIC			354						-				
Del.	18	-	376	-	-	-	- 2	-	9		-	-	
Md.	1	-	95	_		1	-	_	14	4	4	3	18
D.C.	-	-	-	-	-	-	-	-	1	-	-	-	1
Va.	-	-	6	-	-	1	1	-	- 11	8	3	-	30
W.Va.	-	-	140	-	-	-	1	-	7	1	-		3
S.C.	4	-	NN 7	_	-	- 7 -	2		0	2	29		3
Ga.	2	1	-					1.1	14	17	20	_	11
Fla.	12	-	96	-	-		-	2	28	47	21	3	16
E.S. CENTRAL	12	-	43	-	. I - II.	1	-	1	37	43	12	-	6
Ky.	-	-	13	- 1	-	-	-	-	13	12	3	-	2
Ale	-	-	NN	-			-		. 7	10	1	-	
Miss.	3	-	23		-	1	12	-	5	15	-		-
W.S. CENTRAL	12	_	210	-	_	2	3	-	37	85	71	6	87
Ark.	-	-	1	-			1	-	1	12	2	1	6
La.	t i	-	NN	-		-	-	-	5	11	8	- 4	37
Tex.	8	1.22	209	- 2 -	- 2	1	1		2 29	56	52	ī	35
MOUNTAIN	,	1	60	-	-	-			9	56	39	3	34
Mont.	-	-	47	-		- 1	-	-	-	2		-	-
Idaho	-	1	-	-	-	- 1	-	-	1	2		-	-
Wyo.	-	-	-	-	-	-	-	-		8.2.		-	.2
N Max	2	-	12	-	-	-		-	1		2	-	14
Ariz.	-	1.2	MN	-	-		1	1.2.1	-	26	30	2	10
Utah	_	_	1	-		-				1	4		
Nev.	-	-	-	-	-	2	-	-	-	9	3	1	3
PACIFIC	36	-	176	-		5	2	1	118	152	85	13	322
Oren	3		96	-		-			10	0	101500	ī	28
Calif.	26	- 2	1	_	-	7	2	1	106	137	84	10	262
Alaska	2		11	_	_	7	-	-	-	-	-		3
Hawaii	Ž	-	68	-	-	-	-	-	-	-		2	9
Guam													
P.R.	2	NA	NA	NA	-	NA	1	-	- MA	NA Q	12	-	1
V.I.	NA	NA	NA	NA		NA	-	_	NA	NA	NA	NA	
Pac. Trust Terr.	NA	NA	NA	NA		NA	-	-	NA	NA	NA	NA	

TABLE III. Cases of specified notifiable diseases, United States, weeks ending June 14, 1980, and June 16, 1979 (24th week)

NN: Not notifiable. NA: Not available.

All delayed reports and corrections will be included in the following week's cumulative totals.

			1	-, -== -	-110 10, 1			1 1	_			
REPORTING AREA	N	IEASLES (RUI	BEOLA)	MENING	TOTAL	NFECTIONS	N	UMPS	PERTUSSIS	RUB	ELLA	TETANUS
	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	1980	1980	CUM. 1980	CUM. 1980
UNITED STATES	515	10,743	9,973	54	1,463	1,508	185	6,222	31	107	2,700	23
NEW ENGLAND	16	624	261	10	93	75	3	515	1	8	191	
Maine	3	32	11	-	3	3	-	275	-	2	68	-
N.H.	9	299	29			8	-	15	-	-	29	-
VL.	1	220	105		27	22	-	114	-	-	E 64	<u>-</u>
R.I.		2	102		7		1	17	_	2	9	-
Conn.	-	20	2	-	29	32	-	89	1	ī	13	-
MID. ATLANTIC	98	3,235	1,042	3	260	213	8	686	5	8	402	2
Upstate N.Y.	10	595	454	2	89	75	3	81	4	6	158	1
N.Y. City	36	913	517	1	73	56	2	58	-	2	75	
Pa	1.8	1-026	21	_	49	26	-	461	ī	_	108	1
	10	1,010				10		401	-		100	
E.N. CENTRAL	82	1,747	2,619	7	156	149	85	2,413	7	33	685	-
Ohio	-	187	178	-	56	57	19	1,026	-	-	4	
Ind.	4	83	159	-	27	32	. 9	98	4	23	292	-
111. Mich		260	1,203	2	24	6	15	289	+	-	191	
Wis.	78	1.001	396	2	11	16	8	252	1	37	120	-
WN CENTRAL	2.0	1.170	1.339	3	53	49	7	778	1	- 1	197	3
Minn.	27	966	876	2	18	9	<u> </u>	20		ĩ	49	2
lowa	_		15	-	5	5	-	35	-	_	4	-
Ma.	1	62	386	1	19	26	1	67	-	-	38	-
N. Dak.	-	-	13	-	1	1	-	3	-	-	5	-
S. Dak. Nabr	-	-	1		4	2	-	1	-	_	-	-
Kans.	-	70	47	-	6	5	6	93	ī	-	101	1
S. ATLANTIC	34	1,664	1,487	10	347	383	18	801	5	15	271	5
Del.		1	1	-	2	5		36	-			-
Md.	1	*/	<u>'</u>	-	1	32	13	203	-	10	59	
Va	5	296	202		31	54	-	47	_	- ī	4.8	1
W. Va.	-	15	49	1	12	ĩ	1	65	-	2	20	ī
N.C.	6	113	104	1	69	52	2	79	-	-	40	
S.C.	-	137	135	1	44	46	2	198	2	-	49	2
Ga. Fla.	13	723	343	1	64 91	58		109	3	2	55	ī
ES CENTRAL	10	194	142		14.9		21	700			73	
Kv.	10	50	23		46	22	23	201	-	1	34	1
Tenn.	7	1 52	47	2	39	35	1	23	-	-	34	î
Ala.	- 1 ÷	21	53	3	36	27	-	13	-	-	4	1
Miss.	-	61	20	-	21	31	7	53	-	-	1	
W.S. CENTRAL	43	873	843	6	168	246	3	211	4	2	91	3
Ark.	-	11	7	-	13	21	-	19	1	-	2	1
La.	-	13	230		62	99	-	62	-	1	9	1
Tex.	39	122	584	4	77	104	3	130	1 I	ĩ	78	1
MOUNTAIN	A.Q	293	251		67	64	3	153	2	5	87	
Mont.	-	11	51		2	5		45	-	1	22	· · ·
Idaho	-	-	- 4	_		5	-	14	-	-	14	-
Wya.	-	-	36	-	2	1	-	-	-	-	-	-
Cola.	17	15	33	-	12	•	1	36	2	-	4	-
N. Mex.	-	9	32			-	-		_		5	
Ariz. Utah	49	215	15	-	5	30	-	23	_	- 1	20	-
Nev.	-	7	ií	-	11	8	-	- 9	-	-	4	-
PACIFIC	166	946	1.000	٩	107	215	27	A27		36	703	7
Wash.		160	1.080	3	36	33	<u> </u>	113	4	Ĩ	66	-
Oreg.	-	1	48	-	37	15	1	49	-	2	44	-
Calif.	152	674	786	6	122	154	23	246	2	30	589	7
Alaska	-	5	16	5.00	2	5		10	-		2	-
nawali	_	5	59	-	-	8	3	9	-	-	Z	-
Guam	NA	3	3	-	L	1	NA	6	NA	NA	-	-
P.R.	7	71	251	-	7	1	4	109	1	1	11	7
V.I.	NA	5	- 4	-	1	3	NA	2	NA	NA	л. П	-
rac. Irust ierr.	NA	3	6			1	NA	8	NA	N A	1	

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending June 14, 1980, and June 16, 1979 (24th week)

NA: Not available. All delayed reports and corrections will be included in the following week's cumulative totals.

	TURE	220 1110	TULA-	TYP	ного	TYPHU	SFEVER	R VENEREAL DISEASES (Civilian)						RABIES
REPORTING AREA	1001		REMIA	FE	VER	(R)	MSF)		GONORRHEA		SY	PHILIS (Pri.	& Sec.)	Animals)
	1980	CUM. 1980	CUM. 1980	1980	CUM. 1980	1980	CUM. 1980	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	CUM. 1979	CUM. 1980
UNITED STATES	605	12, 325	52	4	157	56	256	19,846	432,431	434,391	562	11,956	11,008	3,04
NEW ENGLAND	24	347	1	-	4	2	5	441	11.103	11.211	11	308	208	22
Maine	4	29	-	-	-	-	-	28	662	762	-	4	5	10
N.H. Vt	- 7	6			-	-		14	364	396	-	1	13	1.11
Mass.	15	184	-	_	;		2	178	200	4.522		197	124	
R.I.	3	39	-	-	ĩ		ĩ	23	669	901	-	13	6	
Conn.	2	79	1	-	1	1	2	187	4,638	4,373	- 4	90	59	
MID. ATLANTIC	82	2,058	1	-	40	-	8	1,827	47,010	46,013	65	1,711	1,692	19
NY City	19	392		-	.5	-	2	242	8,625	7,326		139	120	-
N.J.	1.8	424	<u> </u>		17		5	283	8.590	8.589	9	218	225	
Pa.	9	490	-	-	10	-	ĩ	552	11,360	11,801	6	225	193	ī
E.N. CENTRAL	89	1.774	1	1	12	1	3	2.789	67.095	67.763	43	1.131	1.525	45
Ohio	18	307	-	-	- 4	-	2	981	18,226	18,719	- 4	177	284	21
ing,	12	195	-	-		-		94	6,378	6,066	2	91	98	4
Mich	27	644		-	3	1	1	111	20,909	21,308	33	636	927	273
Wis.	- "5	103	-	-	ĩ			204	6.563	6,114	1	47	46	- 11
		105						201						
Minn CENTRAL	24	435	8	1		1	5	792	19,160	20.869	12	141	146	981
lowa		27	1		1		_	152	3,218	3,634	9	24	43	82
Ma,	12	208	ŝ	-	-	1	-	313	8.159	8.783	1	65	56	24
N. Dak.		23	1	-	_	- 2,	_	9	277	350	- 2	-	1	10
S. Dak,	-	22	-	-	1	-	-	36	598	723	-	1	1	212
Nebr.	-	21	1	-	-	-	-	63	1,602	1,459	2	6	2	44
Nans.	3	58	-	-	1	-	1	100	3,174	3,378	-	1	22	91
S ATLANTIC	132	2,817	7	1	21	43	176	4,604	105,676	104,407	110	2.814	2.647	199
Md	10	37		-	1			56	1,469	1,700	-	106	10	
D.C.	13	163	<u> </u>			1	~ ~	398	7.497	6.721	A	193	202	
Va.	17	325	-	-	3	3	17	370	9,151	10.044	6	251	247	
W. Va.	2	105	-	-	1		1	91	1,318	1,491	1	12	38	
N.C.	27	478	2	-	1	18	80	661	15,671	15,297	16	210	217	
Ga	25	271	-	-	3	14	43	472	10,129	9,684	7	147	122	33
Fla.	2	362	4		-	8	11	742	19,759	20,112	29	618	905	104
E C OFWERE LA				-				1,010	27,013	Lottor				
C.S. CENTRAL	32	1,100	6	-	6	6	22	1,597	35,237	37,814	41	955	709	160
Tenn		228	1.7	-	2	-	2	203	5,186	4,825	1	71	- 13	
Ala,	12	3/2	0	-	-		12	450	12,989	11,320	13	197	141	1
Miss.	14	197	_	-	3	1	2	286	7,208	8,149	8	295	196	-
W.S. CENTRAL	64	1. 221	20		17	,	22	2.842	64.330	54.974	101	2.302	1.923	85
Ark.	- 4	121	15	-	- 12	- 1	6	127	4-088	4.315	2	75	60	10
La.	8	223	12	-	-			616	9,998	10,179	47	556	449	
Okla.	-	120	3	-	1	1	16	237	5,565	5,178	3	42	35	143
Tex.	44	767	2	1	16	1	10	1,862	36,688	37,202	49	1,629	1,379	59
MOUNTAIN	15	321	6	-	10	1	5	755	16,502	17,255	12	290	202	74
Mont.	-	11	1	-	1	1	2	18	606	875		1	6	
Wyo	-	10	1	-	1	-	1	25	756	719	1	17	15	
Colo.	-	15		-	-	-		236	184	409	-	73	4.8	100
N. Mex.	-	66	1	_	5	10 21		110	2.079	2.196	2	54	36	2
Ariz,	8	139	1	-	2	-		215	4,434	4,791	-	93	60	- 44
Utah	3	23	-	-	2	-	1	29	780	919	2	7	3	
Nev.	2	17	-	-	-	-	_	101	2,925	2,774	1.5	38	29	100
PACIFIC	151	2.242	2	-	43	-	-	4,199	74.309	72.185	167	2,304	1,956	27
Wash.	11	182	-	-	-	-	-	308	5,753	6.413	-	106	115	
Orag. Colif	3	90	-	-	5	-	-	201	5,167	4,612	3	51	86	
Alastra	1 36	1,896	2	-	38	-	-	3,536	60,057	57,560	160	2,055	1,698	22
Hawaii	- 7	40	-	-	-	-	-	105	1,780	2.402	7		12	43
	L	34	_		-	-	-	97	1,372	11140			-3	
Guam		10	-	NA	_	NA		NA	40	4.8	NA	-	_	
P.R.	-	ñ	-		1	-	-	84	1,232	964	4	250	222	25
V.I.	NA	-	-	NA	-	NA	-	NA	89	86	NA	10	5	•
rac. Trust Terr.	NA	23	-	NA	-	NA	-	NA	181	228	NA		1	

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending June 14, 1980, and June 16, 1979 (24th week)

NA: Not available. All delayed reports and corrections will be included in the following week's cumulative totals.

TABLE IV. Deaths in 121 U.S. cities,* week ending June 14, 1980 (24th week)

1.7		ALL CAUSES, BY AGE (YEARS)					144 T. H.	ALL CAUSES, BY AGE (YEARS)					
REPORTING AREA	ALL	s >65	45-64	25-44	<1	P&I** TOTAL	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P & 1** TOTAL
NEW ENGLAND	644	424	138	38	25	33	S. ATLANTIC	1,249	712	342	103	55	52
Boston, Mass.	184	116	35	13	13	12	Atlanta, Ga.	143	81	34	16	9	4
Bridgeport, Conn.	33	21	8	2	1	2	Baltimore, Md.	280	139	98	26	10	2
Campridge, Mass.	24	24	2	1		2	Indriotte, N.C.	63	39	13			5
Hartford Conn	75	48	18	4	2	5	Miami Fla	127	74	24	10	2	3
Lowell, Mass.	25	15	6	i –	ĩ	ĩ	Norfolk, Va.	54	34	11	10	3	ž
Lynn, Mass.	18	12	3	3	- 2	112.2	Richmond, Va.	59	34	18	2	2	4
New Bedford, Mass.	19	15	2	1	1	-	Savannah, Ga.	33	21	11			5
New Haven, Conn.	51	31	13	4	1	1	St. Petersburg, Fla.	80	66	11	2	1	3
Providence, R.I.	60	38	15	2	2	3	Tampa, Fla.	77	50	17	4	3	14
Somerville, Mass.	9	8	1		-	2	Washington, D.C.	195	98	57	20	16	†
Springneid, Mass.	42	10	4	,	-	2	wilmington, Del.	47	28	16	1	-	
Worcester, Mass.	48	29	12	6	1	f							
						•	E.S. CENTRAL	692	422	178	42	20	19
							Birmingham, Ala.	99	57	27	7	5	
MID. ATLANTIC	2.424	1,532	555	184	79	98	Chattanooga, Tenn.	59	41	9	2	4	2
Albany, N.Y.	52	39	7	2	2	1	Knoxville, Tenn.	35	20	11	2	-	-
Allentown, Pa.	24	17	6			-	Louisville, Ky.	112	72	24	9	- 4	5
Buttalo, N.Y.	95	62	21	6	4	8	Memphis, Tenn.	145	85	48	7	-	4
Elizabeth N.I.	9.3	28	11	4	2	2	Mobile, Ala.	58	35	12	4	2	1
Frie Pat	36	28		1	2	3	Nontgomery, Ala.	132	24	12		1	
Jersey City, N.J.	37	20	n	2	2	1				35		-	1.000
Newark, N.J.	61	27	18	11 -	4	3							
N.Y. City, N.Y.	1.354	846	299	125	42	48	W.S. CENTRAL	1,124	590	321	100	60	35
Paterson, N.J.	28	17	8	1	Z		Austin, Tex.	41	22	8	6	2	3
Philadelphia, Pa. T	222	127	55	17	11	16	Baton Rouge, La.	36	14	12	5	3	-
Reading Pa	41	28	11	2	-	1	Corpus Christi, Tex.	36	19	11	3	-	-
Bochester N.Y.	1 2 5	97	26	4	-	4	Dallas, Tex.	100	90	4/	16		4
Schenectady, N.Y.	18	11	6		1	1	El Paso, 1ex,	82	30	18	10	10	1
Scranton, Pa.†	20	15	5		-	-	Houston Tex	142	67	44	19	2	1
Syracuse, N.Y.	117	77	30	4	3	2	Little Bock Ark.	74	38	25	Ϋ́	ĩ	5
Trenton, N.J.	34	17	12	3	1	-	New Orleans, La.	198	108	53	11	17	1
Utica, N.Y.	19	15	4		-	2	San Antonio, Tex.	138	75	43	9	8	9
Yonkers, N.Y.	38	25	10	1	1	5	Shreveport, La. Tulsa, Okia.	52 83	32 49	14	4	2 1	2 4
	3 163	1 140		160	~~		1.1						
Akron Ohio	72	52	11	130	1		MOUNTAIN	601	222	140	6 /	20	12
Centon, Ohio	48	30	12	2	2	2		45	28	149	24	29	13
Chicago, III.	521	281	136	55	24	9	Colo, Soring, Colo,	37	22	12	1.1	_	3
Cincinnati, Ohio	146	94	36	5	4	8	Denver, Colo.	124	63	28	14	11	2
Cleveland, Ohio	171	89	54	12	7	2	Las Vegas, Nev.	68	31	17	11	2	-
Columbus, Ohio	134	72	43	.7	6	4	Ogden, Utah	20	11	5	-	2	-
Dayton, Ohio	94	58	19	10	2	1	Phoenix, Ariz.	149	83	36	16	6	-
Detroit, Mich.	231	150	1	21	10	2	Pueblo, Colo.	22	9	8	1	1	3
Evansville, Ind.	41	27	6	3	2	2	Salt Lake City, Utah	9/	23	14	2	2	2
Geny Ind	18	10	3	2	- 1	2	Tucson, Anz.	07	02	19	,	2	
Grand Rapids, Mich.	53	36	11	4	1	2							
Indianapolis, Ind.	145	80	42	6	12	3	PACIFIC	1,686	1,057	382	123	66	61
Madison, Wis.	40	20	8	3	4	4	Berkeley, Calif.	17	15	1	-	-	-
Milwaukee, Wis.	107	75	19	4	5	3	Fresno, Calif.	74	42	13	5	9	10
Peoria, III.	32	20	9	1	1	2	Glendale, Calif.	25	20	4	1	-	-
ROCKTORD, III.	52	18		1	1	-	Honolulu, Hawaii	59	36	11	8	2	3
Toledo Ohio	94	59	26	3	- 2	2	Long Beach, Calif.	404	45	11	20	2	4
Youngstown Ohio	52	32	15	ĩ	3	3	Oskland Calif	77	42	22	29	10	12
					-	-	Pasadena, Calif.	26	16	1	1	-	- 7
							Portland, Oreg.	137	86	31	14	5	5
W.N. CENTRAL	709	457	175	31	19	28	Sacramento, Calif.	60	37	21	i	ĩ	4
Des Moines, Iowa	45	33	9	-	1	1	San Diego, Calif.	143	80	40	8	9	1
Duluth, Minn.	20	11	7	-		3	San Francisco, Calif.	170	108	35	15	4	2
Kansas City, Kans.	51	31	14	2	3	2	San Jose, Calif.	177	106	40	16	6	6
Lincoln Nebr	100	67	20	6	2	2	Seattle, Wash.	148	96	34	11	4	5
Minneapolis Minn	84	51	22	4		2	Tacoma Minh	59	42	10	3	2	3
Omaha, Nebr.	76	56	16	-	1	-	racoma, wasn.	40	ود	,		1	4
St. Louis, Mo.	141	92	32	7	5	2							
St. Paul, Minn.	83	51	23	3	5	1	TOTAL	11,282	6,794	2,790	825	443	394
Wichita, Kans.	86	48	27	7	-	10	100		1				

*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. *Procumonia and influenza

tBecause of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Chickenpox – Texas

A total of 7,009 cases of chickenpox were reported in 1979 in Texas, a 14% increase over the 1978 figure. Eighty-five percent of the 4,799 cases for which age data were available were in the 1-to 9-year age group. However, there was a 35% increase in the number of cases reported in the 10- to 14-year age group. The majority (76%) of reported cases occurred during the months of February through June, with the highest incidence in March.

In 1980, chickenpox cases continued to increase in this state. In the first 8 weeks of this year, 1,452 cases were reported, a 38% increase over the total number for the same period in 1979. About 25% of the 362 cases reported during the single week ending February 23 occurred in a 5- to 9-year-old group of children residing in 1 small town. Reported by C Strickland, C Webb, MD, State Epidemiologist, Texas Dept of Health, in Texas Morbidity This Week, March 22, 1980; Respiratory and Special Pathogens Br, Viral Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: The data reported here are in general agreement with those previously published (1). Chickenpox is primarily a disease of school-age children that occurs in the winter and spring. The infectious agent, varicella-zoster virus, infects about 95% of the population in urban areas by early adulthood; secondary attack rates vary from 78%-96% in susceptible household contacts. Four percent of infections are subclinical. Infection usually confers lifelong immunity, although rare cases of second attacks have been reported. Children who are not immunosuppressed may transmit the virus from as early as 1-2 days before to as late as 6 days following eruption of the first skin lesions. The incubation period is 10-23 days.

Chickenpox in otherwise-healthy children is almost always benign and self-limited. Possible complications include bacterial superinfection, pneumonia, acute cerebellar ataxia, aseptic meningitis, encephalitis, transverse myelitis, coagulation defects, and Reye syndrome. Persons at risk of severe disseminated disease include newborns whose mothers developed chickenpox less than 5 days before or within 2 days following delivery, and patients who are immunocompromised or have hematologic malignancies. These high-risk persons should be considered for attempted postexposure prophylaxis with varicella-zoster immune globulin (VZIG), which is available, under a CDC contract, from the Sidney Farber Cancer Institute, Boston, Massachusetts (617-732-3121), for patients satisfying previously published criteria (2).

Adults who are otherwise healthy are at greater risk than children of developing complications of chickenpox, including pneumonia, encephalitis, and death (1). Fortunately, most adults are immune because of previous infection. Truly susceptible healthy adults who are exposed to chickenpox may be considered for prophylaxis with regular gamma globulin, which has been shown, at least in children, to reduce the severity of the incubating disease when given in large doses (0.6 cc/kg) within 3 days of exposure (4). True susceptibility may be determined by serologic tests such as the fluorescent-antibody-to-membrane-antigen (FAMA) test. The complement-fixation test is not sensitive enough for screening purposes. If serologic tests are unavailable, a high index of suspicion for true susceptibility should be maintained for those adults denying a history of chicken-pox who either 1) grew up in the tropics (where the disease is less common) or 2) had relatively limited contact with children while growing up (e.g., lived in rural areas, had no siblings, or were the youngest in their sibships).

The risk associated with contracting chickenpox during early pregnancy is uncertain,

Chickenpox - Continued

although it is believed to be slight. A distinctive pattern of congenital malformations, including eye defects, cicatricial skin lesions, and hypoplastic limbs, has been reported in infants whose mothers contracted chickenpox during the first and second trimesters of pregnancy. One prospective study (4) found major anomalies in 2/27 (7.4%) and 0/32 newborns whose mothers had contracted chickenpox during the first and second trimesters, respectively.

An experimental, live-virus varicella vaccine has been used safely and effectively in small studies in Japan (5,6). However, any chickenpox vaccine will require extensive evaluation before licensure because of the potential risk of delaying natural infection until adulthood (when the clinical illness may be more severe) and the unknown risk of possible persistence of the live vaccine strain in a latent state in vaccinated individuals. *References*

- 1. Preblud SR, D'Angelo LJ. Chickenpox in the United States, 1972-1977. J Infect Dis 1979;140: 257-60.
- 2. MMWR 1979;28:589.
- Ross AH. Modification of chickenpox in family contacts by administration of gamma globulin. N Engl J Med 1962;267:369-76.
- 4. Siegel M. Congenital malformations following chickenpox, measles, mumps, and hepatitis. Results of a cohort study. JAMA 1973;226:1521-4.
- Asano Y, Nakayama H, Yazaki T, et al. Protection against varicella in family contacts by immediate inoculation with live varicella vaccine. Pediatrics 1977;59:3-7.
- Izawa T, Ihara T, Hattori A, et al. Application of a live varicella vaccine in children with acute leukemia or other malignant diseases. Pediatrics 1977;60:805-9.

International Notes

Influenza – U.S. Army Medical Facilities, Europe

During the period September 1-December 5, 1979, the U.S. Army medical reference laboratory for Europe isolated 2 influenza A (H1N1) viruses from 33 respiratory-tract specimens submitted for examination. Both isolates were from civilian dependents of military personnel.

The first isolate was from a throat swab taken from a 6-week-old boy who lived in east-central West Germany. The infant became ill on September 9 and was hospitalized 3 days later with extensive bilateral pneumonia. He was discharged after 12 days.

The second isolate was from lung tissue obtained at autopsy from a 13-year-old boy who had lived in the west-central area of West Germany. He presented at a medical clinic on the afternoon of October 29 with hoarseness, croup, and a temperature of 100.2 F. He had a past history of asthma, but he had not had an attack for 6 years. There were no other health problems. Because he was not in acute distress, he was sent home and told to use a cold-mist vaporizer and to force fluids. The hoarseness progressed, and he developed mild dyspnea. He returned to the clinic the same evening, where bilateral, mild wheezes were noted on examination of the chest. He was given an oral bronchodilator and intermittent, positive-pressure breathing treatment; he improved and was again sent home. Eight hours later he developed severe air hunger, and while being transported to the clinic in an ambulance had a cardiac arrest. Although he was resuscitated and sustained 2 more cardiac arrests before being transferred to the hospital, he died shortly after admission.

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Influenza – Continued

Pertinent gross autopsy findings included severe edema of the aryepiglottic folds and hemorrhage with focal ulceration of the tracheal mucosa. Microscopically, there was severe lymphocytic inflammation in the false vocal cords and tracheal mucosa. All of these areas showed mucosal ulceration and hemorrhage. No viral inclusions were seen. The epiglottis was normal, and no pneumonia or pneumonitis was found. Specimens for virus culture were taken from the trachea and lungs.

In connection with the first case, hospital and outpatient data for the area where the infant lived, available only for military personnel, showed no appreciable changes in visits for respiratory disease from August 1 through October 31, 1979. Similarly, a review of admission data for the outpatient clinic and the hospital serving the area where the 13-year-old boy had lived revealed no evidence of increased respiratory disease activity. *Reported by JC Gaydos, MD, C Tin Oo, MD, SD Parks, MD, LA Andron, PhD, BA Hill, RN, MPH, DR Swanson, MD, RW Tezak, MD, JW Cutting, MD, U.S. Army 7th Medical Command, Europe; Immunization Div, Bur of State Services, CDC.*

Editorial Note: Since the reappearance of the H1N1 subtype of influenza in the United States in early 1978, infections caused by H1N1 strains have not appeared to be associated with significant mortality. One possible reason for this may be that infections have occurred primarily in children and young adults-groups that are considered to be at lower risk of serious complications from influenza. However, the fatal case reported here illustrates that the potential exists for this subtype to cause serious illness among the pediatric age groups. In addition to the occurrence of Reye syndrome associated with H1N1 infections in the United States (1), cases of pneumonia and death associated with influenza A (H1N1) infections were reported in England during the 1978-79 influenza season (2,3). *References*

1. MMWR 1979;28:39-40, 45.

2. Schaap GJ, DeJong JC, Van den Berg C, et al. Death from influenza A (H1N1). Lancet 1979;1:208.

3. Hoskins TW. Severity of influenza. Lancet 1979;1:381-2.

Erratum, Vol. 29, No. 22

p263 In the table to the article "Follow-up on Mount St. Helens," the second number under Idaho should be 609, not 690, as written.

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The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

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