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For Week Ending November 10, 1973

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE
DATE OF RELEASE: NOVEMBER 16, 1973 – ATLANTA, GEORGIA 30333

SURVEILLANCE SUMMARY

CONTINUING DENGUE-2 TRANSMISSION - Puerto Rico

Surveillance at health centers for dengue-like illness has revealed continuing dengue transmission in Puerto Rico. Most of the confirmed dengue during recent months has been in residents of the town of Villalba (1970 population 4,134; elevation 520 feet) in southcentral Puerto Rico. This area was spared during the 1968-69 epidemic; no cases of dengue were reported from the entire municipality of Villalba (1970 population 18,733).

Patients with dengue-like illness were seen at the Villalba Health Center in November 1972; 8 cases were confirmed serologically, 1 of these also by virus isolation, between November 8, 1972, and February 10, 1973. Mosquito control activities by the Puerto Rico Health Department were begun in selected areas of Villalba in late January 1973. Only 1 case

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of dengue-like illness was recognized in March and April, but beginning in May many residents of the town of Villalba and surrounding barrios visited the health center with clinical manifestations suggesting dengue fever. The number of outpatients with clinically diagnosed dengue is shown in Figure 1. Serologic tests on paired serum specimens from patients with onset of illness in May, June, July, and August have confirmed the clinical impression of dengue. Test results are consistent with recent infection by dengue-2 virus.

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

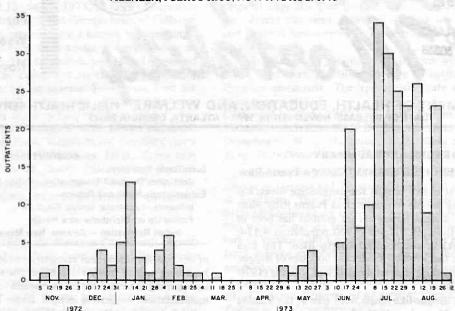
	45th WEI	K ENDING	MEDIAN	CUMULATIVE, FIRST 45 WEEKS				
DISEASE	November 10, 1973	November 11, 1972	1968-1972	1973	1972	MEDIAN 1968-1972		
Aseptic meningitis	98	125	116	4,175	3,706	3,890		
Brucellosis	2	4	4	163	167	187		
Chickenpox	928	1,651		149,553	120,543			
Diphtheria		3	5 6 5	156	97	158		
Encephalitis, primary:		-81	The Auto-Course by	from VeSM art or	eccits ethericit ei	a februaria di certa		
Arthropod-borne and unspecified	40	24	33	1,350	988	1,249		
Encephalitis, post-infectious	4	3	2	248	242	302		
Hepatitis, serum (Hepatitis B)	143	172	163	7.003	7.818	6,328		
Hepatitis, infectious (Hepatitis A)	889	1.103	1,112	44,496	47,525	47,525		
Malaria	3	1,100	38	223	778	2,656		
Measles (rubeola)	171	359	359	25,159	28,396	28,396		
Meningococcal infections, total	24	23	29	1.204	1,169	2,129		
Civilian		22	27	1.178	1.124	1,914		
Military		1	2	26	45	209		
Mumps	1.043	959	1,683	60,697	61.948	86,209		
Rubella (German measles)	122	256	317	26,893	22,869	46,086		
Tetanus	p. (874) 115 48	230	* 1	79	102	115		
Tuberculosis, new active	610	614		27,136	29,492			
Tularemia	0.0	014	1	144	118	133		
Typhoid fever	2	14	14	582	324	324		
Typhus, tick-borne (Rky. Mt. spotted fever)	4	17	SON WHEN O'RE	618	510	394		
Venereal Diseases:	in the Season	HOE TO THE	a manual	010	EV mathetime	pind-nam tes		
Gonorrhea	15,446	15,744		714,415	652,309	Sortion Fred		
Syphilis, primary and secondary		565		22,152	21,922			
Rabies in animals		57	50	2,998	3,603	2,994		

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

Definition White artificial Research Control of the Property and the Property of the Property	Cum.	incidental and of the state of	Cum.
Anthrax:	1	Poliomyelitis, total: Va. 1	7
Botulism:	17	Paralytic: Va. 1	5
Congenital rubella syndrome:	30	Psittacosis:	22
Leprosy: Calif. 4, Hawaii 3		Rabies in man:	1
Leptospirosis:	30	Trichinosis: P.R. 1	73
Plague:	2	Typhus, murine:	29

DENGUE-2 - Continued

Figure 1
OUTPATIENTS WITH ACUTE DENGUE-LIKE ILLNESS VISITING THE HEALTH CENTER.
VILLALBA, PUERTO RICO, NOV. 1972-AUG. 1973



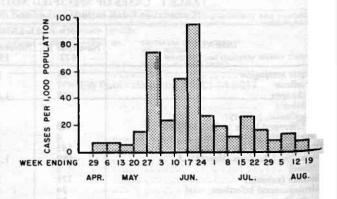
Investigations were conducted in Villalba in late June 1973 and again in mid-August. Survey teams visited households to collect information on recent febrile illnesses, search for Aedes aegypti larvae, and collect adult A. aegypti mosquitoes. Serum specimens were obtained from persons with febrile illness of recent onset for attempts at virus isolation; mosquitoes were sorted live and stored in liquid nitrogen for subsequent virus isolation attempts.

The survey teams visited urban Villalba (36 houses) and 2 outlying barrios, Camarones and Chino (31 and 46 houses, respectively), in late June. The same houses in Camarones and Chino were visited again in August. For urban Villalba, the attack rate for febrile illness in May and June was 21%. Between May 1 and August 20, febrile illness attack rates were 55% for Camarones and 34% for Chino. Overall, of 647 persons surveyed in 113 households in and near Villalba, 249 (39%) had experienced a febrile illness between May 1 and August 20, 1973. Figure 2 indicates peak activity in mid-June in the areas surveyed, somewhat earlier than the peak number of clinical cases seen at the Villalba Health Center.

Of 31 houses in Camarones inspected for A. aegypti larvae, 16 were positive, for a premises index of 52%. In the June surveys, 441 adult female A. aegypti were collected (resting collections) in a total of 83 man-hours, an average of 5 mosquitoes per man-hour. The mosquito counts were 2.3 per man-hour for urban Villalba, 3.2 for Camarones, and 7.0 for Chino. Repeat visits in August to Camarones, after mosquito control activities had been completed, yielded no female A. aegypti in 8 hours of collection effort. In Chino, where control activities were still in progress, the August visit yielded 1.5 female A. aegypti per man-hour in 9 hours of collection effort.

Dengue-like illness has recently been detected in Collores, a barrio 4 to 5 miles southwest of Villalba. On August 27, a

Figure 2
CASES OF FEBRILE ILLNESS, PER 1,000 POPULATION,
BY DATE OF ONSET, VILLALBA, PUERTO RICO,
MAY-AUG. 1973



survey of 14% of the population of 2,407 revealed that 72 persons (21%) had experienced a febrile illness since June 24. Figure 3 shows a progressive increase in febrile illness attack rates from late June to late August. Seroconversions to dengue-2 in 3 of 4 paired serum specimens tested confirmed the clinical impression of dengue. Mosquito collection efforts yielded 4.7 adult female A. aegypti per man-hour. Further virologic and serologic studies are in progress.

No hemorrhagic manifestations of dengue infection were observed during these studies. Several strains of virus have been isolated in suckling mice from acute serum specimens, but none have been identified.

(Continued on page 379)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING NOVEMBER 10, 1973 AND NOVEMBER 11, 1972 (45th WEEK)

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New York City 1	Upstate New York		0		1	7.1.2			1		,,,	4	
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South Dakota	North Dakota					-		-	-	4			
Comparison Com	South Dakota	-	-	-	_	7	-	-	-	-	22		
OUTH ATLANTIC	Kansas		-		-	-			-		-		
Maryland		-	-			-	3		-	15	8		
Mayland	OUTH ATLANTIC	14	2	88	1/4	1	1	1	_	8	91	14	
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Louisiana 2	wallsas w	- 8	0	29	-5	16	-1	1		10	195	12	
Texas 6 - 17 - 15 6 161 ACUNTAIN - 33 - 44 1 1 1 - 2 24 1 Montana 16 1 2 Wyoming - 3 2 Wyoming - 3 2 Tolorado - 8 2 Arizona ± 19	Louisiana	2	[24]	NN		1	1	1	- 1	3	16		
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This is the same of the same o	uerto Rico								-			450	
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Delayed Reports:

Aseptic meningitis: N.Y.C. 7, N.J. 8, Pa. 5 Chickenpox: Me. 3, N.Y.C. 14, Wash. 153 Encephalitis, primary: Pa. 4, Wash. 1 Hepatitis B: N.Y.C. 12, N.J. 14, Pa. 8, Wash. 4 Hepatitis A: Me. 8, N.Y.C. 19, N.J. 38, Pa. 31, Ind. delete 3, Ark. 6, Ariz. 10, Wash. 27

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING NOVEMBER 10, 1973 AND NOVEMBER 11, 1972 (45th WEEK) - Continued

St. Others	MAL	ARIA	ME	ASLES (Rube	ola)	MENING	DCOCCAL IN TOTAL	FECTIONS,	MU	MPS	RUBELLA	
AREA	T#4 4	Cum.	1973	Cumu	lative	1973	Cumu	lative	1973	Cum.	1973	Cum.
DVI T INC. 40	1973	1973	1973	1973	1972	00001	1973	1972	[7]	1973		1973
UNITED STATES	3	223	171	25,159	28,396	24	1,204	1,169	1,043	60,697	122	26,89
NEW ENGLAND	_	17	7	7,502	3,469	2	50	51	188	3,521	10	3,676
Maine *	-	_ 1	-	68	249	-	7	4 3	5	382 199		37
New Hampshire *	4 3 11	2	2	907	397 128	=	3	_	11. 13	274	1000	4
Massachusetts	1-2	7	3	3,975	866	=	13	21	44	1,004	8	2,06
Rhode Island	41	1 7	2	620 1,812	524 1,305	2	3 23	12 11	53 84	1,115	1	89
AIDDLE ATLANTIC	1 4 .	34	36	2,591	1,079	4	166	141	66	7,596	3	4,23
Upstate New York		17	5	816	130	1	59	32	NN	NN	1	48
New York City *	1 :	2	3	928	388	3	34 40	43 27	14 12	4,649 1,550	2	3,01
New Jersey *	1 2	5 10	23 5	473 374	498 63	ā.	33	39	40	1,397	- 53	29
AST NORTH CENTRAL	4	30	39	8,768	11,535	4	162	178	263	15,438	27	6,23
Ohio	-	5	1	291	271	1	69	71	19	2,781	2	97
Indiana	-	3 16	6	678 2,104	1,293 4,248	==	26	12 39	66 26	1,475 2,559	2 5	1.02
Illinois	() 1 -	6	14	4,439	2,141	3	47	48	109	4,278	12	1.90
Wisconsin	liet .		15	1,256	3,582		16	8	43	4,345	6	1,63
VEST NORTH CENTRAL	لفيا	8	-	451	1,008	2	93	82	70	5,116	ARVED?	1,23
Minnesota	. T.	2		21 279	22 698	2	12	24 6	55	95 3,162		204
Missouri	a n <u>E</u> wi	1	1	53	164		34	25	12	738	-	27
North Dakota	-	. 1		65	57	-	3		2	71	1	27
South Dakota	- T		-		7	30 7	4	2	1	161	3	14
Nebraska	. E.	1 2	- I	6 27	23 37	140	10	16		869		9
OUTH ATLANTIC	2	35	2	1,262	2,253	3	201	257	70	7,018	6	2,21
Delaware	ADF S	ACSTR TO		9	53	-5.0	1	1	1	275		
Maryland		6 2		13	15	- 25-	27	39 11	12	655		7-10
Virginia		8		422	69	2	40	57	7	726	2	62
West Virginia .★		-	1	219	298	-	6	8	48	2,436	3	33 20
North Carolina		7	I II and	4	37	-	42 13	30 20	NN	NN 359	1,50	8
South Carolina		1 3	1	66 152	216 183	1	23	19		32	100	1
Florida		8		369	1,380		45	72		2,394		92
EAST SOUTH CENTRAL	angle:	14	12	629	1,071	3	111	91	79	5,038	31	1,41
Kentucky	6-7 1 -68	9	11	393	538	2	40	28 29	30 43	1,508	10 13	57
Tennessee	S. H. Al	5	The last	165	194 154	1	16	20	5	704	4	20
Mississippi	April 6	747 = 1	والسيال	58	185	II	13	14	1	470	4	21
WEST SOUTH CENTRAL	ab Alban	12	7	719	1,609	5	189	140	124	4,252	4	1,49
Arkansas	1 m = 1	-		70	13	- 10-	13	12	9 1	392		9
Louisiana	No.	2		87	99 10	2	49 32	42	- 6	93 459	- 1	17
Texas	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8	3	60 502	1,487	3	95	77	117	3,308	4	1,10
MOUNTAIN		11	51	895	1,928		34	30	23	2,590	4	2,42
Montana	-	1 11	48	171	18	-	7	5	2	254	4	4
Idaho			April 176	256	151		4	8	2	114 429	1	
Colorado		- 2	3 3	81 107	51 534		11	5	9	517	1322	1,55
New Mexico		2	2	128	127	-1	3	3	7	990		1
Arizona*	-	4		22	888	-	5	1	-	140		1
Utah		1	1	129	158	-	2 2	6 1	3	137		
PACIFIC	Villani	62	17	2,342	4,444	. 1	198	199	160	10,128	37	3,98
Washington *	17 A 150	4	8	1,041	983		20	17	43	1,653	8	71 80
Oregon	20 -	4	-	461	141	Chronic	16	14	21	1,889	6	2.42
California	1	51	9	755	3,209	1	154	157 8	74	5,479	23	100
Hawaii	His Est	1	la I	65 20	98		-	3	-	276	-	2
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Guam	+	.70+	22	52 1,941	16 836	an file	- 8	13	35	28 835	7	3
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THE RESIDENCE OF THE PARTY OF T	A STATE OF THE PARTY OF THE PAR	The state of the s	A STREET, A STREET, A STREET, ASS.									

* Delayed Reports:

Malaria: Pa. 3, Wash. I Measles: N.H. 5, N.Y.C. 3, N.J. 8, Pa. 5, Ariz. 1, Wash. 6 Meningococcal infections: N.J. 1, W.Va. 1

Mumps: Me. 1, N.Y.C. 13, N.J. 11, Pa. 35, Wash. 32 Rubella: N.Y.C. 2, N.J. 1, Pa. 1, Wash. 10

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING NOVEMBER 10, 1973 AND NOVEMBER 11, 1972 (45th WEEK) - Continued

	TETANUS	TUBER	CULOSIS	TULA-	TYF	HOID		S-FEVER BORNE	VENEREA	L DISEASES	RABI	ES IN
AREA	TETANUS	(New	Active)	Cumulative	FE	VER		potted fever)	GONOR- RHEA	SYPHILIS (Pri. & Sec.)	ANIM	IALS
LET Instituted	Cumulative 1973	e 1973 Cum. 1973			1973	Cum. 1973	1973	Cum. 1973	1973	1973	1973	Cum. 1973
UNITED STATES	79	610	27,136	144	2	582	4	618	15,446	412	47	2,998
NEW ENGLAND	2	15	995	77	3 -	17	-	3	473	10	1	114
Maine *	40 466	2	93	elt) aresa	od =	-	-	21 1-1	51	-	1	61
New Hampshire	1641	1	49 27	12 h				10 m - 0	17		-11	37
Massachusetts	18:	10	526	_	10 -	14	ACC 12-11	2	195	6		6
Rhode Island	1 1	- 2	83 217	- 67 Ter-	- 54	3	- 12	1500	41	-	-	1
	1-455		217		7	,		H 1	169	4	-of- 10	6
MIDDLE ATLANTIC	7	132	5,315	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S2 -	60	77.57	34	2,673	104	-	50
Upstate New York New York City*	1 3	22 33	933	H - The	-	10	-	13	306	8	171-17	24
New Jersey *	2	26	1,963	_		22 18	The section is	5	963 860	53	-	6 27
Pennsylvania*	1	51	1,481	-		10	- 1	12	544	22	1127	26
AST NORTH CENTRAL	13	65	3,990	3	1	46	10 2 1	19	1,947	29	11	290
Ohio	3	42	1,213	000	i	19	777 <u>-</u> 110	14	362	3	-	32
Indiana	4	-	502	_	- the	1	-	24 -	264	4	1/1	53
Illinois	3	_	1,188	1	-	10	-	5	371	4	3	72
Wisconsin *	1 2	23	1,010	2 -		13		15 -	732 218	16	3	10 123
WEST NODTH CENTRAL	19794	20	2500		1	11000		72 4	OX	1	701 A.	
WEST NORTH CENTRAL Minnesota	6	28	1,136	17	130-111	25	-	24	738 146	8	13	944
lowa	333	1	112			1 1		7	58		5 3	351 194
Missouri	5	21	548	16	- L	12	LATER	8	312	6		89
North Dakota	1		36	-	500 -	4-1-1		100 F	12	-	1	140
South Dakota	-	henler	78	-		1	n by n e niko	1	53	-	-	81
Nebraska Kansas	571	2	74 153	1	_	1 6	124	2 4	113	7	4	86
SOUTH ATLANTIC	10				m .	A-17	ter nati	W 111		100	LI KA	
Delawares	18	86 1	5,373	18	55 -	249	2	306 8	2,839 68	87	4	269 4
Maryland	- 6.7	12	593	6	52-1	9	OF TRUE P	14	403	17		15
District of Columbia	-	7	260		100	I	FOR -	20 - 19	268	20	- 0	Y Total
Virginia	3	19	733 257	5	- T	3	The second	61	165	16	3	82
North Carolina		13	866	2	0.000	11 5	2	140	607	13	-	22 13
South Carolina*	2	17	430	-	SC-1	6	2 - 1	32	505	14		6
Georgia	2	14	875	3	10 - L	3		46	766	1	1.0	88
	10		1,274	2		212		1				39
EAST SOUTH CENTRAL	8	74	2,463	10	1	43	1	112	1,358	31	3	378
Tennessee	1 5	21 24	548 778	7	1	11	1 2 1	52	88 639	1 12	2	200 135
Alabama	2	22	689	100-21	12	10	1	27	367	6		42
Mississippi	- 450.	7	448	2	71.	7		33	264	12	-1-4	1
WEST SOUTH CENTRAL	14	95	2,834	90	2010	26	T STREET	104	2,323	54	12	528
Arkansast	1		338	62		5	1 - N	20	96	4	1	110
Louisiana	4	30	410	1	10 -	6	-	-	526	12	4	47
Texas	5	8 57	1,842	20	5 II	13	7	74 10	205 1,496	31	6	149 222
MOUNTAIN	1-194		R. AND	Ed Alex		170	4 54	March 1	10000	10 miles		5,000
Montana	THE THE	22	919	4	-	14		8	463	13	-	50
ldaho		2	32		_	liber 7	MAD ST	1 2	32 70	1000	10 E	10
Wyoming	3300	i i	25		100	de vida	-	1	15	2	-	4
Colorado	- 9-70	8	181	100 1-01	W -	2	-	1.5	187	2	-	
New Mexico	1,661	1	191	1	-	4	1 1.	3	125	8	-	7
Utah		5	345	2	_	6	-			-	-	30
Nevada	1	4	43 56	1	100	-		51000	21 13	1		3
ACIFIC	11	93	4,111	2	31-1	102		8	34.1			277
Washington∗	3	6	318	1	_	7		5	2,632	76	3	375
Oregon	-	7	218	-	Veril 1	2	-	2	206	1	-	8
California	8	78	3,239	1	-	88	-	1	2,048	70	3	350
Hawaii	-	2	282	-	-	1	-	12 D-31	57 60	1		8
	Sec. Des							Res. Person	80	MARKET STA	SHOT SHIP	BATTER.
Guam	-	-	36	-	-	-	-	-	0000	- Co	-	-
Puerto Rico	9	10	437		2	11	-	-	70	13	3	49
-B-ii Imalius	-	-	2	-	-	-	-	1000	4	3	-	

TB: N.Y.C. 34, N.J.-8, Pa. 21, Wash. 5, Alaska 10 Tularemia: Ark. 2 Typhoid: N.Y.C. 1, N.J. 3, Wis. delete 1, W.Va. 1 * Delayed Reports:

Gonorrhea: N.Y.C. 837, N.J. 292, Pa. 710, Wash. 214 Syphilis: Me. I, N.Y.C. 52, N.J. 33, Pa. 13, Wash. 1 Rabies: Pa. 2, Del. 1, S.C. 1

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING NOVEMBER 10, 1973

Week No. 45

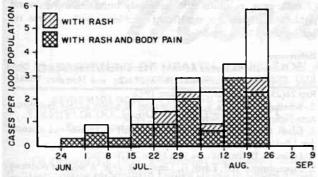
(By place of occurrence and week of filing certificate. Excludes fetal deaths)

HARMAN AND AND AND AND AND AND AND AND AND A	All Causes			Pneumonia	TAIL TO THE REAL PROPERTY.			Pneumonia	
Area	All Ages	65 years and over	Under I year	and Influenza All Ages	Area	A li Ages	65 years and over	Under I year	and Influenza All Ages
					SOUTH ATLANTIC	1,245	695	51	45
NEW ENGLAND	675	408	21	40	Atlanta, Ga	104	53	9	III - V A
Boston, Mass.	210	96	8	16	Baltimore, Md.	212	117	4	
Bridgeport, Conn.	34	27	_	4	Charlotte, N. C.	66	30	3	
Cambridge, Mass.	24	16	1	4	Jacksonville, Fla	95	54	10	1
Fall River, Mass.	33	23		-	Miami. Fla.	120	65	5	•
Hartford, Conn	42	29	-	-	Norfolk, Va	65	37	3	
Lowell, Mass.	26	19	_	4	Richmond, Va	87	47	4	
Lynn, Mass.	26	21	-	2	Savannah, Ga	47	28	2	
New Bedford, Mass	23	18	-	1	St. Petersburg, Fla	93	72	2	
New Haven, Conn	73	38	6	1	Tampa, Fla.	76	40	4	
Providence, R. I.	40	25	- 1	5	Washington, D. C.	240	135	5	1.
Somerville, Mass	6	5	-	-	Wilmington, Del	40	17	-	
Springfield, Mass.	45	32	3	3				Line Carrier	
Waterbury, Conn	35	23	-	-	EAST SOUTH CENTRAL	731	357	41	30
Worcester, Mass.	58	36	2	-	Birmingham, Ala.	98	45	8	
UDDIE ATLANTIC	la series I	A 1			Chattanooga, Tenn.	48	23	2	
Albany N. V	2,938	1,800	113	150	Knoxville, Tenn.	37	26	-	1
Allentown Pa	40	24	5	A = 1	Louisville, Ky.	125	63	6	
Allentown, Pa	28	15	1	4	Memphis, Tenn.	193	90	7	
Buffalo, N. Y.	122	82	6	5	Mobile, Ala.	55	28	3	
Camden, N. J.	40	21	1	1	Montgomery, Ala	55	26	3	
Elizabeth, N. J.	32	24	-	-	Nashville, Tenn.	120	56	12	- 100
Erie, Pa.	40	25	2	5	WEST SOUTH SENTEN	. 17		A STATE OF THE PARTY OF	
Jersey City, N. J.	64	48	1	-	WEST SOUTH CENTRAL	1,263	665	71	4
Newark, N. J.	52	20	2	3	Austin, Tex.	32	21	-	
New York City, N. Y.†	1,582	946	51	53	Baton Rouge, La.	78	39	7	
Paterson, N. J.	50	30	3	5	Corpus Christi, Tex	37	24		
Philadelphia, Pa.	293	174	15	39	Dallas, Tex.	157	91	6	
Pittsburgh, Pa.	153	91	8	9	El Paso, Tex.	51	20	3	
Reading, Pa.	54	36	5	1	Fort Worth, Tex.	90	57	4	
Rochester, N. Y.	124	90	5	8	Houston, Tex.	266	123	16	- 111
Schenectady, N. Y.	34	23	2	1	Little Rock, Ark.	57	33	5	
Scranton, Pa.	43	30	2	4	New Orleans, La.	164	78	15	7110
Syracuse, N. Y.	71	43	2	-	Oklahoma City, Okla.*	88	50	5	
Trenton, N. J.	44	30		4	San Antonio, Tex	126	67	8	100
Utica, N. Y.	23	15	_	3	Shreveport, La	55	28	2	- 3 - 13
Yonkers, N. Y.	49	33	2	4	Tulsa, Okla.	62	34	-	
AST NORTH CENTRAL	2,491	1,420	105	66	MOUNTAIN	559	325	38	2
Akron, Ohio	60	36	3	-	Albuquerque, N. Mex.	41	23	3	
Canton, Ohio	36	23	2	2	Colorado Springs, Colo	26	20	-	
Chicago, III.	646	366	28	22	Denver, Colo.	145	77	20	
Cincinnati, Ohio	172	94	6	8	Las Vegas, Nev	34	16	1	
Columbus, Ohio	186	92	6	2	Ogden, Utah	25	17	-	- 1
Dayton, Ohio	134	84	4	3	Phoenix, Ariz.	128	79	5	
Detroit, Mich.	105	64	7	1	Pueblo, Colo.	27	16	1	
	326	169	10	2	Salt Lake City, Utah	63	40	5	
Evansville, Ind	44	30	1	2	Tucson, Ariz.	70	37	3	
Gary, Ind.	64	34	5	5	PACIFIC	street L	April 1	200	
Grand Rapids, Mich.	17	8	1	F 1 - 2	Berkeley, Calif.	1,616	998	65	5
Indianapolis, Ind.	56	32	2	4	Fresno, Calif.	18	15	-	
Madison, Wis.	151	80	12	-	Glendale, Calif.	50	31	5	- 1.77
Milwaukee, Wis.	43	21	5	3	Honolulu, Hawaii	33	22		1,340
Peoria, Ill.	143	85	4	1	Long Beach, Calif.	51	22	7	
Rockford, III.	51	39	2	and deep	Los Angeles, Calif.	109	63	4	
South Bend, Ind.	37	25		5	Oakland, Calif.	435	274	10	100
Toledo, Ohio	42	28	-	4	Pasadena, Calif.	56	36	2	215
Youngstown, Ohio	114	70	6	4.2	Portland, Oreg.	33	23	1	56
Toungstown, Oldo	64	40	1	2	Sacramento, Calif.	139 80	94	3	
EST NORTH CENTRAL	906	548	33	47	San Diego, Calif	144	43 77	5	
Des Moines, Iowa	68	46	_ 1	2	San Francisco, Calif.	176	103	5	
Duluth, Minn.	26	17		2	San Jose, Calif.	64	45	3	
Kansas City, Kans.	40	26	- 11	5	Seattle, Wash.	137	87	13	
Kansas City, Mo	145	82	7	2	Spokane, Wash	57	41	1	
Lincoln, Nebr.	38	28	1	3	Tacoma, Wash	34	22	-	
Minneapolis, Minn.	90	60	4	5		- 7 5	121		
Omaha, Nebr.	110	49	8	1	Total	12,424	7,216	538	49
St. Louis, Mo.	253	147	9	15	Expected Number		7 2/9	643	42
St. Paul, Minn.	69	53	2	1		12,596	7,248	543	
Wichita, Kans.	67	40	1	11	Cumulative Total (includes reported corrections for previous weeks)	576,623	338,900	21,710	23,11

[†] Delayed report for week ending November 3, 1973 * Estimate based on average percent of divisional total

DENGUE-2 - Continued

Figure 3 CASES OF FEBRILE ILLNESS, PER 1,000 POPULATION, BY DATE OF ONSET, BARRIO COLLORES, JUANA DIAZ, PUERTO RICO, **JUNE-AUG. 1973**



The dengue activity described in this preliminary report appears to be more explosive than the 1972 outbreak in Guanica-Ensenada (MMWR, Vol. 21, No. 44, and Vol. 22, No. 7). The febrile illness attack rate in Villalba was 390 per 1,000 inhabitants over a 3-1/2 month period, whereas in Guanica-Ensenada, it was 331 per 1,000 over a 5-1/2 month period. A. aegypti population indices were higher in Villalba than those observed in Guanica-Ensenada.

Foci of confirmed dengue transmission have now been identified in the towns of Coamo and San German. Mosquito control activities are in progress in these towns.

(Reported by Rodolfo Caballero, M.D., Francisco Loza-Diaz, M.D., physician, Elpidia Diaz, Nursing Supervisor, Villalba Health Center; the Puerto Rico Health Department; the San Juan Tropical Disease Laboratories, Vectorborne Disease Branch, Bureau of Laboratories, CDC.)

EPIDEMIOLOGIC NOTES AND REPORTS INFLUENZA - Australia, United Kingdom

Australia

A widespread epidemic of influenza A has been reported from Western Australia. The etiologic agent for this outbreak is similar to A/England/42/72.

United Kingdom

In late September and early October, an influenza outbreak associated with type A influenzavirus occurred in a boys' school in southern England. More than 100 boys were ill; I died with pneumonia. The etiologic agent for this outbreak appears to have been A/England/42/72.

In October, another influenza outbreak associated with type B virus occurred in a boys'school in northern England. Strains of influenza antigenically similar to the "intermediate strain" have been isolated.

In mid-October, a strain of influenza B similar to the B strains prevalent between 1967 and 1972 was isolated from a patient in Leicester.

(Reported by the World Health Organization: Weekly Epidemiological Record. 48(44):421, 2 Nov 1973.)

Editorial Note

No virologically confirmed cases of influenza have been reported this fall in the United States; however, symptoms of influenza are indistinguishable from those of a wide variety of viral infections, and many febrile upper respiratory illnesses that occur between October and March may be mistakenly called influenza. Specific diagnosis can be made only by viral isolation, but the presence of influenza can be determined by serologic methods.

FOLLOW-UP ON DIPHTHERIA ON A NAVAJO INDIAN RESERVATION - Arizona, New Mexico

Two deaths due to diphtheria have now been reported to the Indian Health Service from the Navajo Indian Reservation in Arizona and New Mexico (MMWR, Vol. 22, No. 41). These first fatalities together with 2 additional cases bring to 48 the total number of cases reported on the Reservation this year. Both deaths were in previously unimmunized adult Navajos from the Shiprock, New Mexico, area. Their histories are summarized below:

Case 1: A 32-year-old Indian man with a history of alcoholism was admitted to a local hospital on October 9, 1973, with fever, exudative tonsillitis, and lobar pneumonia. Treatment was begun with penicillin and gentamicin. On the second hospital day, diphtheria was suspected, and 80,000 units of antitoxin were given. Congestive heart failure was evident by the third hospital day, and an electrocardiogram showed sinus tachycardia and nonspecific T-wave changes. The patient was treated with diuretics and phlebotomy. Increasing respiratory distress necessitated intubation, which was followed by worsening hypotension and oliguria. The patient was transferred to another hospital where peritoneal dialysis was begun. The cardiac condition deteriorated further, with nodal bradycardia and subsequent ventricular arrest; all resuscitation efforts failed, and the patient died on October 18. Throat swab culture for Corynebacterium diphtheriae was negative, but autopsy disclosed a tracheal membrane and hemorrhagic myocarditis, consistent with diphtheria.

Case 2: A 41-year-old Indian woman with a history of alcoholism presented to the hospital on October 21, 1973, with low-grade fever and respiratory stridor. Examination of the pharynx revealed no cause for the stridor, and rhonchi were heard over both lung fields. The patient was scheduled for indirect laryngoscopy but had a respiratory arrest before the procedure could be done. During resuscitation efforts, a 2 x 10 cm membrane was extracted from the trachea. Diphtheria was diagnosed clinically, and the patient was given diphtheria antitoxin and penicillin. Soon after intubation, she developed a pneumothorax complicated by hypotension and oliguria. She died on October 23. Culture of the membrane

DIPHTHERIA - Continued

grew out toxigenic *C. diphtheriae*, biotype intermedius. Autopsy disclosed a second necrotic membrane in the trachea; the heart appeared normal.

Both of these patients had been seen numerous times in several hospitals and clinics, but medical files showed no record of previous diphtheria immunization. The family contacts of the patients had negative cultures for *C. diphtheriae* and received penicillin intramuscularly. No contact between the 2 patients and other known cases of diphtheria was uncovered.

Control efforts continue on the Navajo Reservation and adjacent areas. Since the highest attack rates have been in adults, vaccination campaigns aimed at the adult Navajo population are being carried out in Gallup, Shiprock, and surrounding communities.

(Reported by Charles O. Garrison, M.D., Pathologist, Cortez, Colorado; Blythe Schroeder, M.D., Intern, John Ullrich, Ph.D., Hospital Pathologist, Bernalillo County Medical Center, Albuquerque; James Orme, M.D., Medical Officer, Taylor Mc-Kenzie, M.D., Director, Shiprock Service Unit, V. Alton Dohner, M.D., Deputy Area Director, Navajo Area, Indian Health Service; Wilhelm F. Rosenblatt, M.D., Chief, Communicable Disease Section, New Mexico State Health Agency; Philip M. Hotchkiss, D.V.M., State Epidemiologist, Arizona State Department of Health; and an EIS Officer.)

Editorial Note

Although both of these adult patients had been seen several times in hospitals and outpatient clinics, they had a history of no immunization against diphtheria. Vaccination

of inadequately immunized adults, as might be accomplished in frequently used medical facilities, is particularly important in areas of high endemic diphtheria incidence.

Tetanus and diphtheria toxoid adsorbed, adult (Td), given in 3 separate injections (1) has been shown to be effective in initiating protective serum levels of diphtheria antitoxin (2,3,4), even in adults not previously immunized; in several published studies no significant problems with adverse reactions have been reported (2,3,4,5).

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- I. US Public Health Service Advisory Committee on Immunization Practices: Collected Recommendations. Morbidity and Mortality Weekly Rep 21(25-- supplement): 5, 24 June 1972
- 2. Scheibel I, Tulinius S: Immunization of adults against diphtheria. Acta Pathol Microbiol Scand 27:69-77, 1950
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- 4. Levine L: Td for adult use. Am J Hyg 73:20, 1961
- 5. Pappenheimer AM, Edsall G, Lauren HS, et al: A study of reactions following administration of crude and purified diphtheria toxoid in an adult population. Am J Hyg 52:353-370, 1950

Erratum, Vol. 22, No. 30, p. 340

In the article, "Quarantine Measures," column 2, line 17, the following correction should be made:

Pennsylvania U.S. Public Health Service Outpatient Clinic 19106

Delete: Pittsburgh Insert: Philadelphia

The Morbidity and Mortality Weekly Report, circulation 36,000, is published by the Center for Disease Control, Atlanta, Ga.

Director, Center for Disease Control Director, Bureau of Epidemiology, CDC Editor, MMWR Managing Editor, MMWR David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D. Deborah L. Jones, B.S.

Mrs Mary F Jackson, Library Center for Disease Control

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.

3-G-19-08

In addition to the established procedures for reporting morbidity and mortality, the aditor 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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