CENTER FOR DISEASE CONTROL



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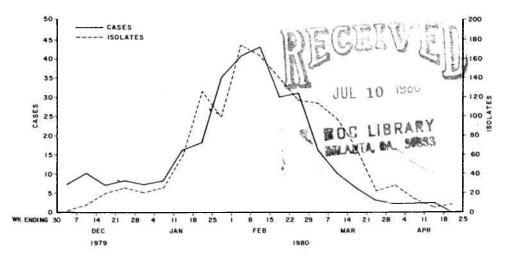
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Epidemiologic Notes and Reports

Follow-up on Reye Syndrome - United States

For the period December 1, 1979 through April 30, 1980, CDC received written reports of 304 patients with Reye syndrome that met the standard CDC case definition. The 304 cases were reported from 37 states and the District of Columbia. They were divided equally between males and females. Among 284 cases of known race, 94% were in whites, 3% in blacks, 3% in Hispanics, and 1% were in Asians or Pacific Islanders. Of the patients for whom symptoms were reported, 75% (204/273) had respiratory symptoms as part of their antecedent illness, 15% had diarrhea, and 15% had a varicella exanthem. Of 282 patients for whom the ages were reported, 71% (199) were between the ages of 5 and 14 years; 22% (62) were less than 4 years and 7% (21) were 15 years or older. The number of reported cases peaked in early to mid-February, approximately the same time as the peak in reports of isolations of influenza B viruses made by World Health Organization collaborating laboratories in the United States (Figure 1). There were 66 deaths among 287 cases in which the outcome was reported, for a case-fatality rate of 23%.

FIGURE 1. Reported Reye syndrome cases, by week of onset of prodrome, and influenza B isolates, by week of report, United States, November 30, 1979-April 25, 1980



Reye Syndrome - Continued

These current 1979-1980 surveillance data reveal a third nationwide outbreak of Reye syndrome epidemiologically associated with influenza B. Nationwide outbreaks of Reye syndrome have been reported previously in association with influenza B during the 1973-74 and 1976-77 influenza seasons, and with influenza A (H1N1) in the 1978-79 season (1-3).

In addition to certain viruses, several reports have suggested that other factors, such as medications or toxins, may contribute to the pathogenesis of this disease. Among toxins that have been implicated in some cases of Reve syndrome are isopropyl alcohol, pteridines, warfarin, and aflatoxins (4). Aspirin is one medication that has been mentioned frequently as a possible contributing factor in the pathogenesis of Reye syndrome, although it has been reported that aspirin toxicity and Reye syndrome may be differentiated on the basis of serum amino acid patterns (4-6). A recently reported study (7) conducted last year in Arizona of a cluster of 7 cases of Reye syndrome and 16 ill classmate controls demonstrated that the patients with Reve syndrome used salicylates during their prodromal illness more frequently (7/7) than their controls (8/16), (p < .05, 1 Tail Fisher Exact Test). All 7 patients with Reve syndrome had serologic evidence of recent influenza A (H1N1) infection; there were no serologic studies on the ill controls. Reported rates of salicylate use in Reve syndrome patients have ranged from 53% to 100%. However, with the exception of this study, no controlled studies of salicylate use have been previously reported. Further investigations are needed to more clearly define the possible role of salicylate use and toxins in the pathogenesis of Reye syndrome.

Reported by State and Territorial Epidemiologists, K Starko, MD, Acting State Epidemiologist, Arizona Dept of Health Services; and Enteric and Neurotropic Viral Diseases Br, Viral Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: CDC continues to receive case-report forms on Reye syndrome cases with onset from December 1979 through April 1980. By early April, state health departments had informed CDC by telephone of 429 suspected cases, including the 304 confirmed ones reported above; it is estimated that approximately 85% to 90% of these will meet the CDC case definition. This definition requires that a patient have an acute non-inflammatory encephalopathy with 1) microvesicular fatty metaphorphosis of the liver confirmed by biopsy or autopsy, or 2) a serum glutamic oxaloacetic transaminase (SGOT), a serum glutamic pyruvic transaminase (SGPT), or serum ammonia (NH₃) greater than 3 times normal. If cerebral spinal fluid is obtained, it must have ≤ 8 leukocytes/mm³. In addition, there should be no other more reasonable explanation for the neurologic or hepatic abnormalities.

References

- Corey L, Rubin RJ, Hattwick MAW, Noble G, Cassidy E. A nationwide outbreak of Reye's syndrome. its epidemiologic relationship to influenza B. Am J Med 1976;61:615-25.
- 2. MMWR 1978;27:15.
- 3. MMWR 1979;28:97-8.
- Chaves-Carballo E. Epidemiology of Reye syndrome. In: Schoenberg BS, eds. Advances in neurology-Neurological epidemiology: principles and clinical applications. New York: Raven Press, 1978; 231-48.
- Linnemann CC, Shea L, Partin JC, Schubert WK, Schiff GM. Reye's syndrome: epidemiologic and viral studies, 1963-1974. Am J Epidemiol 1975;101:517-26.
- 6. DeVico DC. Reye syndrome: a metabolic response to an acute mitochondrial insult? Neurology 1978;28:105-8.
- Starko KM, Ray CG, Dominguez LB, Stromberg W, Woodall D. Reye's syndrome and salicylate use. Pediatrics, in press.

Follow-up on Mount St. Helens

The Mount St. Helens Technical Information Network, established through the Federal Coordinating Office of the Federal Emergency Management Agency (FEMA), has, to date, issued 33 Technical Information Bulletins (Table 1). The health bulletins in this series have been based primarily on the Mount St. Helens Volcano Health Reports, which are issued twice a week by CDC's Chronic Diseases Division. Technical bulletins on other aspects of the volcanic eruptions—geology, agriculture, economics, ecology, and environment, among others—are prepared with the assistance of other agencies.

One of the bulletins, #30, details the management approaches to controlling dust exposure that are recommended by the National Institute for Occupational Safety and Health

TABLE 1. Technical Information Bulletins on the Mount St. Helens volcanic eruptions

	Number and title	Issue date (1980)
1.	The Nature of Mount St. Helens Ash	May 27
2.	Driving and Vehicle Maintenance in Heavy Ash Areas	May 30
3.	Precautions in Handling Volcanic Ash	May 27
	Current Volcanic Hazards at Mount St. Helens, Washington	May 29
5.	Volcanic Ash Could Reduce Insect Populations Temporarily	May 30
6.	Advice for Farmers from Washington State University – Tractors	
	and Water Pumps	June 1
7.	Ash Particles and Home Clean-up Problems – Advice from the	
	University of Idaho	May 30
8.	Physical and Chemical Characteristics of the Mount St. Helens	
	Deposits of May 18, 1980	June 2
9.	Volcanic Ash Advice to Berry Growers	June 2
	Center for Disease Control (CDC) Community Based Health	
	Surveillance Program (Update)	June 3
11.	Poultry – Bees – Livestock	June 5
12.	Foodstuffs and Volcanic Ashfall	June 5
13.	Research into the Free Crystalline Silica Content of Mount	
	St. Helens Ash	June 6
14.	Protecting Children from Volcanic Ash - Related Health Hazards	June 7
15.	Volcanic Ash and Your Water Supply	June 7
16.	Health and Medical Update	June 8
17.	Insurance Concerns	June 9
18.	Health and Medical Update	June 10
19.	Controlling Blowing Dust from Volcanic Ash	June 16
20.	Health and Medical Update	June 16
21.	Aviation Considerations	June 20
22.	Electric/Electronic Protection – Commercial and Major Systems	June 20
23.	Farm Equipment "Ash" Maintenance	June 21
24.	Vehicle Maintenance Guidelines	June 23
25.	Flood Hazard Reduction in the Vicinity of Mount St. Helens	June 25
26.	Volcanic Ash Effects on Municipal Water Supply and Sewage	
	Treatment Plants	June 26
27.	Air Quality Monitoring Network for Volcanic Ash	June 26
28.	Volcanic Hazard Analysis	June 27
29.	Wildlife and Plant Community Impacts	June 27
30.	Management Approaches to Dust Exposure Control	June 28
31.	Economic Factors	June 28
32.	Health Surveys and Analysis - Center for Disease Control (CDC)	
	Surveillance Program (Update)	June 28
33.	Mount St. Helens Technical Information Network Closeout	July 1
		r

Mount St. Helens - Continued

(NIOSH). This bulletin includes recommended chemical dust suppressants, methods of cleaning, administrative controls, equipment maintenance, emergency controls, and personal protective equipment, including the types of respirators that should be used for work in areas with low, medium, and high concentrations of volcanic dust.

Copies of these bulletins may be requested directly from FEMA, Mount St. Helens Technical Information Network, 1220 Main St., Vancouver, Washington 98660.

Reported by FEMA; NIOSH, and the Chronic Diseases Div, Bur of Epidemiology, CDC.

International Notes

Cholera – Spain

From July 16 to November 7, 1979, 267 cases of cholera were reported in 8 Spanish provinces—Melilla, Málaga, Barcelona, Granada, Córdoba, Sevilla, Ceuta, and Navarra. The first case was observed in Melilla on July 16.

In Málaga, there were 141 cases between August 6 and October 24. Eighty-three percent of the patients lived in or near the city. There were only a few cases in August, but many in September. The overall incidence among women was higher than among men,

(Continued on page 329)

65

32

	27t	h WEEK ENDI	NG		CUMU	LATIVE, FIRST 27	WEEKS
DISEASE	July 5, 1980	July 197		MEDIAN 1975-1979	July 5, 1980	July 7, 1979 1, 674 62 166, 253 5 272 134 7, 248 15, 041 5, 159 304 10, 807 1, 638 16, 621 17 10, 113 659 9, 983 492, 891 14, 187 12, 309 151 2, 477	MEDIAN 1975-1979
Asentic meningitis	87	1	25	89	1.788	1,674	1,271
Brucellosis	4		3	3	87		101
Chickenpox	1,719	1.4	92	1,442	149.453	166,253	145,559
Diphtheria	-		1	<u> </u>	2		53
Encephalitis: Primary (arthropod borne & unspec.)	9		9	14	304	212	340
Post-infectious	2		6	6	97	134	134
Hepatitis, Viral: Type B	295	2	58	258	8,634	7,248	7,629
Type A	418	4	60	483	13,585	15,041	16,202
Type unspecified	185	1	86	163	6,024	5,159	4,437
Malaria	31		25	18	917	304	248
Measles (rubeola)	262	2	33	451	L1,852	10,807	21,683
Meningococcal infections: Total	25		33	26	1.584	1,638	1.063
Civilian	25		33	26	1,578	1,621	1,057
Military			-	-	6	17	17
Mumps	49	ł	28	223	6,545	10,113	14,742
Pertussis	39		35	24	587	659	659
Rubella (German measles)	56	2	26	192	2,957	9,983	14,081
Tetanus	2		1	1	31	29	31
Tuberculosis	460	- 4	34	539	14,032	14,288	15,672
Tularemia	2		3	3	66		65
Typhoid fever	10		11	10	186	232	183
Typhus fever, tick borne (Rky. Mt. spotted)	27		50	47	405	383	383
Venereal diseases:							
Gonorrhea: Civilian	17,598	18,1	05	18,643	489,358	492,891	489.144
Military	706	6	94	694	13,827	14,187	14,187
Syphilis, primary & secondary: Civilian	376	3	17	352	13,316	12,309	12,309
Military	3		8	6	161	151	159
Rabies in animals	99		89	58	3,398	2.477	1,542
TABLE II. Not	ifiable di	seases of	low fi	requency, l	Jnited State		
		CUM. 1980					CUM, 1980
Anthrax	ł		Poliom	velitis: Total			1
Anthrax Botulism (Calif. 2)		25	Fullam	yenitis: rotan Paralyt	i.e.		5
Cholera		25 8	Deitten	Paraiyt sis (Ups. N.Y.			40
GROBERA		2	Laverace	1313 (UPS. IV. T.	(, **(5. 1)		(4U

38

97

30

6

Rabies in man

Trichinosis (La. 1)

Typhus fever, flea borne (endemic, murine) (Tex. 3)

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

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

Congenital rubella syndrome

Leptospirosis (N.C. 1, Ark. 1)

Leprosy (Wis. 1, Calif. 6)

Plague (N. Mex. 1, Calif. 1)

	ASEPTI	BRU-	CHICKEN			E	ENCEPHALI	TIS	HEPATI	TIS (VIRAI	L), BY TYPE		
REPORTING AREA	GITIS	LOSIS	POX	DIPHT	HERIA	Pri	mary	Post-in- fectious	B	A	Unspecified	MA	LARIA
	1980	1980	1980	1980	CUM. 1980	1980	1979	1980	1980	1980	1980	1980	CUM. 1980
UNITED STATES	87	4	1,719	-	2	9	9	2	295	418	185	31	917
NEW ENGLAND	5	-	275	-	-	-	2	-	5	8	4	-	61
Maine N.H.	-	-	27	-	-	-	_	-	1	1 _	-	2	12
Vt.	_	_	14	-	_	_	_	-	-	-	-	-	
Mass.	-	-	60	-	-	-	-	-	2	2	- 4	-	28
R.I. Conn.	5	-	16 151	2	-	-	2	-	1	L 4	-	-	6 9
MID. ATLANTIC	12	-	234	_	1	2	-	-	48	43	9	10	125
Upstate N.Y.	3	-	83	-	-	1	-	-	a	18	-	-	20
N.Y. City N.J.	- 9	2	143 NN	Ξ	1	-	-	-	3 18	1	2	2	31 33
Pa.	100	-	8	-	-	1	-	-	19	8	ĭ	8	41
E.N. CENTRAL	2	-	586	-	1	-	5	-	34	52	15	-	40
Ohio Ind.	-	-	13	2	-	-	3	Ξ	1 2	7 3	4	-	8 3
III.	-	1	41 45		Ξ	Ξ	1	-	14	21	5	-	9
Mich.	2	-	149	-	1	-	-	-	10	17	4	-	14
Wis.	-	-	338	-	-	-	1	1	1	4	-	-	6
W.N. CENTRAL Minn.	3	-	230	- 2	Ξ	Ξ	Ξ	1	7	11	3	Ξ	33 13
lowa	1		18		-	_	Ξ	2	1	2	-	1	- 4
Mo.	1	-	3	-	-	-	-	-	5	1	2	-	8
N. Dak. S. Dak.	-	2	3 2	2	-	Ξ	-	2	-	ĩ	-	-	2
Nebr.	-	-	28	-	-	-	2	-		-	-	-	4
Kans.	1	-	176	-	-	Ĩ.	-	1	-	3	-	-	2
S. ATLANTIC Del.	14	1	140	-	-	1	-	-	44	43	17	2	97
Md.	-		50	-	_	_	-	-	13	5	7	1	20
D.C.	-	-	-	-	-	-	-	-	1	-	L	-	1
Va. W.Va.	1	-	8 76	-	-	1	2	-	3	4 2	2	2	33 3
N.C.	7	_	NN	-	-	-	-	-	2	7	3	-	5
S.C. Ga.	3	-	2	-	-	-	-	-	Е	10	1	1	5 13
Fla.	3	1	NA	-	2	Ξ	-	Ξ	13	10	3	-	17
E.S. CENTRAL	5	1	33	-	-	-	-	-	13	22	5	-	= 9
Ky.	-	-	11	-	-	-	-	-	1	4	-	-	2
Tenn. Ala.	2 3	_	NN 7	Ξ	-	-	-	-	8 2	12 2	1 4	-	-
Miss.	-	1	15	-	_	-	-	-	2	4	-	-	ī
W.S. CENTRAL	15	1	104	-	-	1	-	-	35	65	60	1	92
Ark. La.	-	2	4	-	-	-	2	2		.5	1 9	-	6 37
Okla.	5	-	NN	-	-	-	-		10 5	11	4		9
Tex.	8	1	100	-	-	1	-	-	20	41	46	1	40
MOUNTAIN	6	-	22	-	-	-	-	-	7	20	4	-	36
Mont. Idaho	ī	1	-	Ξ	Ξ	-	_	-	-	-	-	-	-
Wyo.	-	-	-	-	2	=	-	-	2	-	-	-	2
Colo. N. Mex.	4	-	22	-	-	-	2	Ξ	3	14	3	2	19
Ariz.	1 NA	NA	NN	NA	-	NA	-	Ξ	NA	NA	NA	NA	10
Utah Nev.	-	-	-	-	-	-	Ξ	-	2	6	1	-	3
	-	-	-	-	-	-	-	-	-	-			
PACIFIC	25	1	95	Ξ	-	5	2	1	102	154	68	18	424
Wash. Oreg.	-	-	78	-	Ξ	-	-	-	ī	4	2 2	1	32 25
Calif.	22	1	-	-	-	4	2	1	91	143	63	17	352
Alaska Hamaii	-	-	11 =	-	-	-	-	-	-	1	-	-	4
Hawaii	3	-	6	-	-	1	-	-	4	2	1	-	
Guam	NA	NA	NA	NA	-	NA	_	-	NA	NA	NA	NA	2
P.R.	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	1.
V.I. Pac. Trust Terr.	NA	NA	NA	NA	-	NA NA	_	Ξ	NA NA	NA NA	NA NA	NA NA	-
NN: Not patificable	N A	NA	NA	NA		AA		-	HA	A P			

TABLE III. Cases of specified notifiable diseases, United States, weeks ending July 5, 1980, and July 7, 1979 (27th week)

NN: Not notifiable. NA: Not available.

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

	N	IEASLES (RL	BEDLA	MENIN	GOCOCCAL I TOTAL	NFECTIONS	'	NUMPS	PERTUSSIS	RUE	ELLA	TETANU
REPORTING AREA	1980	CUM. 1980	CUM 1979	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	1980	1980	CUM. 1980	CUM. 1980
UNITED STATES	262	11,852	10,807	25	1,584	1,638	49	6,545	39	56	2,957	31
NEW ENGLAND	1	653	278	-	92	81	2	535	-	1	196	-
Maine	-	33	15	-	3	4	1	282	-	-	68	-
N.H.	-	318	29 116	_	6 13	8	1	19	-	-	30 3	-
Vt. Mass.	1	50	13	_	31	27	-	117	-	1	73	-
R.1.	-	2	1 02	-	7	4	-	20	-	-	9	-
Conn.	-	24	3	-	32	33	-	90	-	-	13	-
MID. ATLANTIC Upstate N.Y.	73 24	3,542	1,266	5 3	287 94	238 86	5 2	733	6 2	4	457	3
N.Y. City	37	1,083	623	-	75	62	2	69	-	2	83	i
N.J.	NA	717	53	1	58	58	ī	91	-	Ξ.	65	
Pa.	12	1,041	37	1	60	32	-	485	4	-	145	1
E.N. CENTRAL	90	2,075	2,825	2	176	165	11	2.549	2	8	727	1
Ohio Ind.	29	279 86	226	-	64 31	64 35	3	1.091	2	2	4 309	1
mu. III.	3	301	1,280	-	27	33	1	326	_	-	155	_
Mich.	3	228	729	2	42	45	ī	763	-	-	120	-
Wis.	55	1,181	423	-	12	17	6	270	-	6	139	-
W.N. CENTRAL	11	1,268	1,447	2	62	54	5	239	1	2	209	3
Minn. Iowa	11	1,050	955 15		20 8	10	-	21	-	-	51	2
Mo.	_	63	405	1	22	28	1	69	1	-	41	_
N. Dak.	-	_	14	2	1	1	-	4	2	-	5	-
S. Dak.	-	-	1	-	4	3	-	1	-	-	-	-
Nebr. Kans.	-	81 74	- 57	1	7	- 5	-	9 98	-	2	107	-
S. ATLANTIC	46	1,811	1,612	9	375	406	8	835	8	5	291	6
Del.	-	3	1	-	2	5	-	37	-	-	-	-
Md.	-	70	7	1	36	35	4	282	-	4	70	-
D.C.	-	-	240	-	1		-	3	-	-	-	-
Va. W. Va.	3	298 15	240	2	34 13	58 8	1	47 68	-	Ξ	48 21	2
N.C.	7	122	107	1	74	56	-	81	2	-	42	-
S.C.	15	154	143	ī	49	48	-	198	-	-	49	2
Ga. Fla.	14	798 351	346 718	3	68 98	61 135	3	1 118	5 1	-1	61	1
E.S. CENTRAL	19											
Ky.	19	-333 51	167 23	3 2	150	119 23	<u>+</u>	813 720	7	1	75 35	3
Tenn.	19	176	47	-	42	36	1	24	4	1	35	1
Ala.	-	22	77	1	38	28	ī	14	-	-	4	ĩ
Miss.	-	84	20	-	21	32	2	55	-	-	1	-
W.S. CENTRAL	8	890	866	2	178	266	2	227	3	2	102	1
Ark. La.	1	12	7 243	-	15	23 101	-	20	-	_	3	1
Okla.	7	736	243	-	66 16	23	-	64	-	1	4	1
Tex.	-	129	594	2	81	119	1	143	3	ī	86	5
MOUNTAIN	2	327	285	-	48	68	1	162	5	-	108	-
Mont.	-	1	51	-	2	6	-	47	-	-	30	-
Idaho Wyo.	-	-	18 36		4	5	_	15	-	-	17	-
Colo.	2	19	47	_	12	4	1	+1	1	-	5	
N. Mex.	-	9	38	-	7	4	-	-	â	-	Ś	-
Ariz.	NA	245	69	-	7	31	NA	24	NA	NA	24	-
Utah Nev.	-	46 7	15 11	-	2 12	8	-	26	ī	-	23	-
PACIFIC	12	953	2,061	2	216	241	11	452	7	33	792	8
Wash.	2	168	1,109	2	40	40	1	452	í	-	67	8
Oreg.	-	1	48	-	37	16	-	51	-	1	48	-
Calif.	10	773	825	1	135	172	10	265	6	29	662	8
Alaska Hawaii	-	5	17	1	э 1	5	-	11	-	1	10 5	-
Guam	N A N A	3	3	-	1	1	NA	7	NA	NA	-	-
		84	293	-	7	3	NA	111	NA	NA	11	7
P.R. V.I.	NA	6	4	-	1	3	NA	2	NA	NA	-	-

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending July 5, 1980, and July 7, 1979 (27th week)

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

				Jul	y 5, 1	980,	and Ju	aly 7, 19	79 (27th we	ek)				
	TUR	RCULOSIS	TULA	TY	РНОГО	TYPHU	S FEVER borne)		VENERE	AL DISEASES (Civilian)			RABIES
REPORTING AREA	1000	ncurgala	REMIA	FE	VER	(1)(8)	dorne) ASF)		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	460	14,032	66	10	186	27	405	17,598	489,358	492,891	376	13,316	12,309	3,398
NEW ENGLAND	12	388	1	-	4	2	10	324	12,362	12,539	6	339	235	29
Maine N.H.	-	29	-	-	-	-	-	23	718	872	-	4	5	16
Vt.	-	6 11	-		-	_	_	7	404 290	453 295		1	13	4
Mass.	9	212	-	_	2	1	6	156	5,107	5,042	3	215	138	3
R.I. Conn	1	42	-	-	1	1	2	26	753	1.012	1	16	8	-
	2	88	1	-	1	-	2	105	5,090	4,865	2	100	70	6
MID. ATLANTIC Upstate N.Y.	78	2,311	1		47	-	21	1,712	52,753	52,818	57	1,927	1.883	
N.Y. City	19	423 835	ī	1	19	_	3	372	9,916 20,379	8,452 20,583	40	159	136	10
N.J.	33	499	-	-	9	-	7	173	9,461	10,320	3	238	253	5
Pa.	26	554	-	2	12	-	9	581	12,997	13,463	10	257	209	6
E.N. CENTRAL Ohio	45 10	2,007 332	1	3	15	1	8 6	2,981	75,559 20,376	76,661 20,920	38	1,263 204	1,660	
Ind.		210		-	1		-	464	7.348	7,283	3	204	119	54
III.	6	728	-	3	6	1	2	942	23,716	23,531	1	698	978	308
Mich. Wis.	27	622	1	-	4	-	-	570	17,023	17,961	29 NA	212	210	
	2	115	-	-	1		-	NA	7,096	6,966		51	50	129
W.N. CENTRAL Minn.	33 7	522 96	10	1	8	3	13	784	22,234	23,617 3,975	3	159 56	165	1,077
lowa	á	46	i		1	- 2		79	2,437	2,816	-	8	23	219
Mo.	13	238	7	1		-	5	230	9,610	10,205	2	76	67	268
N. Dak. S. Dak.	1	25	-	-	-	-	-	8	323	410	1	3	2	128
Nebr.	1	29 24	ī	- 1	1	_	_	28	695 1.831	806 1 • 592	-	2	1 2	212 51
Kans.	-	64	-	-	1	3	8	138	3,629	3,813	-	ì	23	100
& ATLANTIC	104	3,129	9	1	23	14	267	5,092	121,759	118,495	72	3,148	2,979	228
Del. Md.	2 20	46 405	2	-	1 2	ī	1 26	80 864	1.688	1,958 14,548	- 6	8 218	17 204	1
D.C.	3	182	-	-	3		-	284	8,484	7,658	17	226	231	-
Va.	12	357	-	1	4	1	23	150	10,395	11,164	- 4	286	268	6
W. Va. N.C.	5 16	117 541	3	-	1	17	119	79 745	1,510	1,662	1	12 226	39 249	10
S.C.	15	286		_	3	- 4	75	231	11,573	11,140	6	175	141	35
Ga.	-	388	- 4	-	-	-	18	890	22.844	23,080	20	913	806	115
Fla.	31	807	-	-	8	-	3	1,769	34,534	30,052	18	1,084	1,024	44
E.S. CENTRAL Ky.	38	1,296	6	-	6	2	32	1,096	39.811	42,420	29	1,074	785 82	189
Ky. Tenn.	12	290 439	6	_	2	2	22	218 579	5,936 14,265	5,561 14,924	14	75 437	339	
Ala.	8	351	-	-	1	-	6	104	11,537	12,796	8	225	156	22
Miss.	4	216		-	3	-	2	195	8.073	9,139	7	337	208	-
W.S. CENTRAL	61	1,487	26	1	22	2	43	2,337	63,687	64.408	91	2,582	2,202	
Ark. La	9	141	18	-	-	_	6	192	4,772	4,915	3	83 604	74 499	119
Okla.	27	262 164	5	-	1	2	1 23	378 146	11,275 6,237	11,339 5,932	-	52	499	
Tex.	43	920	ŝ	1	21	-	13	1,621	41,403	42,222	88	1,843	1.588	657
MOUNTAIN	7	363	10	-	11	2	9	492	18,374	19,288	5	307	237	83
Mont. Idaho	Ξ	14	2	-	1	1	3	15 12	679 869	960 804	_	17	6 16	10
Wyo.		16 15	1 3	_	1	_	2	12	550	481	1	8	5	5
Colo.	-	40	э	-	2	-	-	203	5,065	5,092	2	84	51	-
N. Mex. Ariz.	4	79			2	2	2	85	2,362	2.500	-	55 93	47	24
Utah	NA 2	148	1	NA	3	NA 	1	NA 39	4.614 878	5,344	NA 2	9	3	
Nev.	ĩ	20	-	-	-	-	-	120	3,357	3,096	-	40	33	-
PACIFIC	82	2,529	2	-	50	1	2	2,780	82,819	82,645	75	2,517	2,163	309
Wash. Oreg.	11	213 97	_	-	-	_	-	NA 265	6,397	7,119 5,198	NA	106	125	_
Calif.	3 68	2,143	2	-	6 44	1	2	2,400	5,866 66,836	66,170	72	2,252	1,875	265
Alaska	-	40	-	-	-	-	-	61	2.011	2,706	1	7	13	44
Hawaii	-	36	-	-	-	-	-	54	1,709	1,452	2	97	54	-
Guam	NA	22	-	NA	-	NA		NA	50	59	NA	_	_	_
P.R.	NA	100	-	NA	1	NA		NA	1,270	1,089	NA	259	246	25
V.I.	NA	-	-	NA	_	NA	-	NA	108	9 8	NA	10	6	_
Pac. Trust Terr. NA: Not available	NA	26	-	NA	-	NA		NA	214	256	NA		- 1	

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending July 5, 1980, and July 7, 1979 (27th 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 July 5, 1980 (27th week)

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	P	P & 1° TOTA 311 32 22 1 4 4 22 22 23 3 3 - - - - 4 4 4 2 2 4 4 4 2 2 4 4 4 2 2 4 4 4 2
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Althorn (Mather Markov) Case of the mathematical structure (Mather Markov) Case of the mathematical structure (Mather Markov) Case of the Markov) <td>1 5 3 4 1 4 3 - 4 5 14 2 6 7 - 5 3 2 3 6 40 - -</td> <td>5 3 2 2 2 1 1 4 2 2 2 2 5 3 1 2 4 4 4 - 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4</td>	1 5 3 4 1 4 3 - 4 5 14 2 6 7 - 5 3 2 3 6 40 - -	5 3 2 2 2 1 1 4 2 2 2 2 5 3 1 2 4 4 4 - 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4
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Hartford, Conn. 54 32 11 3 3 2 1 Lowell, Mass. 17 14 1 2 Nortolk, Va. 60 48 23 3 New Badford, Mass. 17 13 4 Nortolk, Va. 80 48 23 3 New Badford, Mass. 17 13 4 Nortolk, Va. 80 48 23 3 New Badford, Mass. 11 7 3 1 - 1 Sevenah, Ga. 37 20 12 5 St. Patershurg, Fia. 72 55 13 Providence, R.I. 64 38 14 7 4 1 Springfield, Mass. 5 2 2 1 - 1 Wathrury, Conn. 22 18 2 3 Worcester, Mass. 49 37 7 2 - 7 Mittingham, Ala. 99 55 21 4 Mittinghon, D.C. 149 79 37 14 E.S. CENTRAL 536 304 146 45 Birmingham, Ala. 99 55 21 4 Mittinghon, N.Y. 50 35 10 1 1 - Knowlile, Fenn. 30 22 7 - Landen, N.J. 38 24 10 1 2 - Monthe, Ala. 41 26 9 5 Allentown, Pa. 15 13 2 Buffalo, N.Y. 95 64 21 5 1 3 Garden, N.J. 38 24 10 1 2 - Monthe, Ala. 41 26 9 5 Strip, Patron, N.J. 22 14 7 6 Nowark, N.J. 41 20 18 1 1 - Howark, N.J. 41 20 18 1 1 - Howark, N.J. 24 17 6 Nortolk, Va. 137 882 300 111 24 31 N.Y. City, N.Y. 1, 373 882 300 111 24 31 N.Y. City, N.Y. 1, 373 882 300 111 24 31 N.Y. City, N.Y. 1, 373 882 300 111 24 31 N.Y. City, N.Y. 1, 373 882 300 111 24 31 N.Y. City, N.Y. 1, 373 82 24 7 1 1 3 1 1 N.Y. City, N.Y. 1, 373 82 24 7 1 2 2 Phitadelphia, Pa. 1 53 28 19 2 3 1 Corpus Christi, Tex. 187 101 53 14 Reading, Pa. 32 26 3 3 Follas, Tex. 187 101 53 14 Goraron, Pa. 1 18 9 7 1 1 2 4 11 Schenactady, N.Y. 33 24 7 1 1 1 2 Schenactady, N.Y. 33 24 7 1 1 1 2 Schenactady, N.Y. 33 24 7 1 1 2 E.N. CENTRAL 2+004 1, 204 512 134 63 50 Atron, Ohio 63 35 19 4 3 - E.N. CENTRAL 2+004 1, 204 512 134 63 50 Atron, Ohio 63 35 19 4 3 - E.N. CENTRAL 2+004 1, 204 512 134 63 50 Atron, Ohio 63 35 19 4 3 - E.N. CENTRAL 2+004 1, 204 512 134 63 50 Atron, Ohio 63 35 19 4 3 - E.N. CENTRAL 2+004 1, 204 512 134 63 50 Cattor, Ohio 143 64 53 11 8 3 Conco, Spring, Cola. 30 19 6 2 Cator, Ohio 143 64 53 11 8 3 Conco, Spring, Cola. 30 19 6 2 Clowallad, Ohio 143 64 53 11 8 3 Conco, Spring, Cola. 30 19 6 2 Clowallad, Ohio 143 64 53 11 8 3 Conco, Spring, Cola. 30 19 6 2 Clowallad, Ohio 143 64 53	4 3 - 4 5 14 2 6 7 - 5 3 2 3 6 40 - -	4 2 2 2 2 2 2 5 3 3 - 2 4 4 4 - 4 2 2 4 4 2 2 4 4 2 2 4 4 2 2 2 2 2 2 2
$ \begin{array}{c} \mbox{Trans.} & 17 & 13 & 4 & - & - & - & - & - & - & - & - & -$	3 - 4 5 14 2 26 7 5 3 2 3 6 40 	2 2 2 5 3 - 2 4 4 4 4 2 4 4 2 2 4 4 2 2 4 4 2 2 4 4 4 2 2 2 5 3 - - - - - - - - - - - - - - - - - -
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Providence, R.I. 64 38 14 7 4 1 Tampa, Fia. 57 38 6 5 Somewile, Mass. 5 2 2 1 - 1 Warhington, D.C. 149 79 37 14 Winnigton, Mass. 43 30 10 - 2 1 Winnigton, D.C. 149 79 37 14 Winnigton, D.C. 149 79 55 29 5 Constant, P.A. 13 22 8 2 1 1 Nathvile, Tenn. 10 55 34 13 Gamdan, N.J. 38 24 10 1 2 - Mathvile, Tenn. 80 46 19 8 Wisseria, N.J. 41 20 18 1 1 2 Wisserigh, P.A. 1 32 24 137 69 15 7 13 Hontogover, A. 140 15 3 14 Gamdan, P.A. 123 69 15 7 13 Hontogover, City, N.Y. 13 24 17 69 15 7 13 Hontogover, City, N.Y. 13 24 17 69 15 7 13 Hontogover, City, N.Y. 32 24 7 1 1 2 Fort Worth, Tex. 81 70 20 6 Scranton, P.A. 128 26 3 3 Dallas, Tex. 187 101 53 14 Houton, Tex. 197 95 64 16 Urite Rock, Ark. 52 27 13 5 Hontogover, N.Y. 32 24 7 1 1 2 Fort Worth, Tex. 81 50 20 6 Karan, Ohio 63 35 19 4 3 - Houton, Tex. 197 95 64 16 Urite Rock, Ark. 52 27 13 5 Hontogover, La. 123 64 33 16 Sin Antonio, Tex. 127 76 33 26 19 4 3 - Houton, Tex. 127 76 33 26 14 Outon, Tex. 127 76 32 6 16 2 Stranton, Ohio 63 35 19 4 3 - Houton, Tex. 127 76 33 26 12 Con spring, Colo. 113 63 26 7 L	14 26 7 	3 24 4 4 2 4 4 2 4 4 2 4 0 2 2
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Elizabeth, N.J.24176Montgomery, Ala.3819123Erie, Pa.t T332282111Nathville, Tenn.6046198Jersey City, N.J. Tt432711311111Newark, N.J.412018112779Paterson, N.J.22145122Austin, Tex.423252Philadelphia, Pa.t231376915713Batonge, La.211361Pritsburgh, Pa.t53263Dallas, Tex.1871015314Reading, Pa.32263Dallas, Tex.1376915713Rochetter, N.Y.925326461El Paso, Tex.332362Schenetzady, N.Y.33247112Fort Worth, Tex.8150206Syracuse, N.Y.59312042-11257836162Yonkers, N.Y.222021San Antonio, Tex.1257836162Yonkers, N.Y.222025Shreweport, La.5836 <td< td=""><td>3 6 40 - -</td><td>4 2 40 2 2</td></td<>	3 6 40 - -	4 2 40 2 2
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*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

**Pneumonia and influenza

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.

t†Data not available. Figures are estimates based on average percent of regional totals.

Cholera - Continued

mainly due to the large number of cases in females over 54 years old. The disease was not serious in most instances: mild and asymptomatic cases predominated, and the case-fatality ratio was low.

Because there were relatively few cases over a long period in Málaga, water as a vehicle of transmission was considered to play a minor role. In addition, in those parts of the city where a high incidence was observed, the chlorination of water was satisfactory. Only 2 small outbreaks were attributed to water with severe fecal contamination. Vegetables were also ruled out as a major vehicle, because those eaten in Málaga were imported from other provinces where cholera cases had not been reported.

Fish was considered to be the major vehicle of infection for several reasons: 1) many cases occurred among persons who had eaten fish, 2) the coastline at Målaga and the neighboring areas, which is used for fishing, is very polluted; there is a virtual absence of sewage-treatment plants in this area; 3) cases occurred in other parts of the province where fish from Målaga was sold; 4) samples examined at the public health laboratory revealed gross fecal contamination; 5) this fish is often eaten raw and uncleaned; 6) the lower socioeconomic groups were mainly affected, and these groups eat more fish in August and September because of its low price during those months.

Reported by Boletin Epidemiológico Semanal, No. 1398, 9-15, September 1979, as reported by the World Health Organization in the Weekly Epidemiological Record 1980;55:93-4.

Epidemiologic Notes and Reports

Imported Poliomyelitis - Oregon

On February 20, 1980, a 62-year-old woman from Oregon developed fever, myalgias, and weakness, especially in her back, thighs, shoulders, and hips. Two weeks earlier, while on a trip to Mexico, she had developed upper respiratory tract symptoms.

Laboratory evaluation showed a normal white blood cell (WBC) count, a cerebral spinal fluid with 10 WBC/mm³, a protein level of 154 mg/dI, and a negative bacterial culture. Serologic studies showed a 4-fold rise in neutralization antibodies to type 3 poliovirus, and a stool specimen was positive for type 3 poliovirus (1).

Preliminary evidence indicated that the virus was non-vaccine-like. The patient denied any history of vaccination for poliomyelitis or any contact with a vaccine recipient.

In June-more than 60 days after onset-the patient still had residual weakness of the lower motor neuron type. Further strain-characterization studies are pending.

Reported by P Goodall, MD, Portland, Oregon; JA Googins, MD, State Epidemiologist, Oregon Dept of Human Resources; Enteric Virology Br, Virology Div, Bur of Laboratories, Enteric and Neurotropic Viral Diseases Br, Viral Diseases Div, Field Services Div, Bur of Epidemiology, CDC.

Editorial Note: This case of paralytic poliomyelitis has 2 unusual features. First, the Patient is one of the oldest cases of poliomyelitis on record. Only 7% of all reported paralytic poliomyelitis cases from 1969-1979 were 40 years of age or older. Second, non-vaccine-like type 3 poliovirus infection is very uncommon in the United States. Only 1 of 28 (3.6%) of all type 3 polioviruses isolated from 1969-1979 at CDC were classified as non-vaccine-like by the modified Wecker technique (2).

CDC recommends that all travelers to areas or countries where poliomyelitis is endemic or epidemic should have an up-to-date vaccination status for poliomyelitis, including a booster, if indicated (3).

Poliomyelitis - Continued

References

- 1. Oregon State Health Division. Poliomyelitis case in Oregon (poliovirus type III). Oregon Communicable Disease Summary 1980;29:19.
- Nakano JH, Gelfand HM, Cole JT. Antigenic segregation of the type 3 poliovirus isolates related and unrelated to Sabin's vaccine strain with the use of modified Wecker and McBride techniques. Am J Epidemiol 1966;83:130-45.
- 3. MMWR 1979;28:518.

Current Trends

Urban Rat Control -- United States, January-March 1980

During the second quarter of fiscal year 1980, 65 reporting urban rat control programs identified 981 environmentally improved blocks (EIBs) (Table 2). An additional 811 blocks achieved maintenance status, indicating that they had become essentially rat free. As of March 31, programs had provided services to a cumulative total of 53,908 blocks; 22,894 of these remained in project target areas, and 31,014 were sustained locally as EIBs. As a result of local project accomplishments, 6,500,000 people now live in areas that are environmentally improved and rat free.

EIBs became the priority of the Urban Rat Control Program in 1976. Since that time, projects have designated 5,400 to 8,800 EIBs annually. EIBs for this fiscal year total 1,874, a figure which is 55% less than the 4,127 reported during the first 2 quarters of fiscal year 1979. It is expected, however, that the EIB achievement for the year will be comparable to that of previous years.

Reported by Environmental Health Services Div, Bur of State Services, CDC.

		Та	rget-area block	s		Environmentally improved blocks*	
Program community	Total	In attack	In mainter	ance phase	New this		
	TULA	phase	<12 months	≥12 months	quarter	Cumulative	
REGION I	671	359	220	92	0	1,065	
Hartford	249	105	79	65	0	277	
Boston	422	254	141	27	0	0	
Previously funded programs						788	
REGION II	3,802	1,386	1,066	1,232	112	3,763	
Camden	254	148	90	16	0	9 7	
Jersey City	233	18	124	91	0	93	
Newark	220	131	77	12	Ō	0	
New York City	1,532	655	270	607	0	727	
Newburgh	25	5	4	16	22	61	
Rochester	232	68	101	63	55	340	
Yonkers	91	14	19	58	0	58	
Aquadilla, P.R.	140	75	44	21	35	125	
Arecibo, P.R.	160	37	71	52	0	155	
Mayaguez, P.R.	212	118	71	23	0	180	
Ponce, P.R.	289	1	20	150	0	213	
San Juan, P.R.	414	116	175	123	0	141	
Previously funded programs			•••••		• • • • • • •	1,573	

TABLE 2. Status of target-area blocks in Urban Rat Control Programs, second quarter fiscal year 1980 (January 1-March 31, 1980)

July 11, 1980 Urban Rat Control – Continued

TABLE 2. Status of target-area blocks in Urban Rat Control Programs, second quarter fiscal year 1980 (January 1-March 31, 1980) – *Continued*

		Та	rget-area blocks	5		mentally d blocks*
Program community	Total	In attack	In mainten	ance phase	New this	
	TOtal	phase	<12 months	≥12 months	quarter	Cumulative
REGION III	3,998	1,348	1,718	820	174	6,299
War on Rats	909	445	210	254	0	968
Baltimore	414	62	122	118	0	262
Chester	120	37	36	47	0	55
Harrisburg	367	72	207	88	0	0
N.E. Pa. V.C. Assn.t	428	76	352	0	84	1,042
Philadelphia	1,214	422	648	144	18	1,366
Pittsburgh	333	149	48	136	54	1,198
Chesapeake	9	0	9	0	0	69
Norfolk	172	63	76	33	18	1,278
Portsmouth	32	22	10	0	0	61
Previously funded programs			•••••			0
REGION IV	5,034	1,803	1,914	562	288	5,522
Mobile	506	202	195	109	0	233
Tuscaloosa	344	109	89	0	0	0
Ft. Lauderdale	161	7	154	0	173	716
Miami	686	350	276	60	51	814
Pensacola	573	169	150	0	15	15
Tampa	40	13	27	0	46	943
Atlanta‡	721	442	279	0	0	0
DeKalb Co.	740	163	402	175	0	0
Lexington	317	52	111	0	0	0
Louisville	521	192	151	178	3	411 392
Memphis Burning for and any array	425	104	80	40		. 1.998
Previously funded programs					• • • • • • •	
REGION V	4,935	2,443	1,517	243	127	3,441
Chicago	399	352	47	0	0	0
Peoria	324	249	75	0	0	0
Gary	381	292	35	54	0	0
Indianapolis	309	32 55	277 87	0		108 0
Benton Harbor Detroit	190 416	150	234	32	0 0	306
Highland Park	220	194	234	32	Ö	0
Saginaw	333	157	82	0	ŏ	ő
Washtenaw CoYpsilanti	236	0	0	ő	ŏ	ŏ
Wayne CoEcorse	200	ŏ	ŏ	ŏ	ŏ	ŏ
Akron	301	57	101	5	49	442
Barberton	119	73	42	4	ŏ	58
Cincinnati	105	21	43	25	13	100
Cleveland	396	194	202	Ő	65	644
Columbus	449	195	156	98	Ō	116
Toledo	202	95	85	22	Ō	136
Youngstown	220	203	17	0	0	0
Milwaukee	135	124	11	0	0	0
Previously funded programs					• • • • • • •	. 1,531

The Morbidity and Mortality Weekly Report, circulation 88,700, is published by the Center for Disease Control, Atlanta, Georgia. 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.

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.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

Urban Rat Control - Continued

		Та	rget-area block	s		nmentally ed blocks*
Program community	Total	In attack	In mainter	nance phase	New this	
	Total	phase	<12 months	≥12 months	quarter	Cumulative
REGION VI Little Rock Pine Bluff	2,094 403 318	627 233 157	531 64 68	830 0 93	90 0 90	5,820 0 90
New Orleans Houston Previously funded programs	508 865	108 129	137 262	263 474	0	2,817 1,655 1,258
REGION VII Kansas City, Kan. Kansas City, Mo. St. Louis Omaha Previously funded programs	1,424 288 177 487 472	172 2 18 74 78	618 117 52 179 270	634 169 107 234 124	13 0 0 13	3,069 953 594 769 357 396
REGION IX Los Angeles Oakland San Bernardino San Francisco Previously funded programs	936 358 279 158 141	301 79 142 20 60	559 279 114 93 73	76 0 23 45 8	177 104 35 30	1,205 207 188 35 293 482
REGION X Previously funded programs		•••••	<u>.</u>		l <u></u>	830 830
TOTAL	22,894	8,439	8,143	4,489	981	31,014

TABLE 2. Status of target-area blocks in Urban Rat Control Programs, second quarter fiscal year 1980 (January 1-March 31, 1980)

*Contiguous blocks where maintenance has been achieved and sustained for a minimum of 12 months. These blocks are no longer part of the approved project target area.

[†]Northeastern Pennsylvania Vector Control Association. Serves Lackawanna and Luzerne counties and the cities of Nanticoke, Wilkes-Barre, and Hazleton.

‡Target area blocks are confined to public housing projects.

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