

POLIOMYELITIS SURVEILLANCE REPORT THIRD YEAR NO. 112 JUNE 7, 1957

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U.S. Department of Health, Education and Welfare
Public Health Service Bureau of State Services
Communicable Disease Center
Poliomyelitis Surveillance Unit
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SPECIAL NOTE

The information in this report represents a factual summary of data reported to the Poliomyelitis Surveillance Unit from State Health Departments, Epidemic Intelligence Service Officers, participating laboratories and other pertinent sources. All readers should be cautioned regarding the interpretation of these data, many of which are preliminary and provisional in nature. It is understood that the contents of these reports will not be released to the press, except by the Office of the Surgeon General, Public Health Service, U.S. Department of Health, Education and Welfare. State Health Officers, of course, are free to release any information they may wish concerning data from their state.

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I. Current Poliomyelitis Morbidity Trends

Total national poliomyelitis incidence has remained stable. For the week ending June 1, 1957, 64 cases were reported to the National Office of Vital Statistics, compared with 71, 59 and 61 cases reported respectively for the preceding weeks ending the 11th, 18th, and 25th of May. Figure 1 presents national poliomyelitis incidence by weeks since April, 1957, with similar weekly figures for April to July for the years 1952 through 1956.

Table 1 presents reported incidence by states and regions for the past six weeks, with six-week totals for the comparable periods of the previous four years. It may be noted that polio incidence decreased in all regions of the nation except the South Central States, where total incidence increased to 42 cases from 19 cases reported the preceding week. Of these 42 cases, 32 (or one-half of the total national incidence) were reported from the State of Texas (see below).

II. Report from Texas

Dr. J. E. Peavy, Director, Communicable Disease Division, Texas State Health Department, and Dr. Robert Engles, Epidemic Intelligence Service Officer, have provided the following data concerning current polio incidence in Texas.

The 32 cases reported the past week are tabulated below by paralytic and vaccination status. A total of 14 were reported to be paralytic (including one case probably paralytic) and 18 nonparalytic. Of the 14 paralytic cases, 8 occurred in unvaccinated and 3 in vaccinated individuals. Vaccination history has not yet been determined for the 3 remaining paralytic cases.

Of the 18 nonparalytic cases, 9 were unvaccinated and 8 were vaccinated, with vaccination history not yet determined for one case.

Texas Polio Cases for the Week Ending June 1, 1957

	<u>No. of Vaccine Inoculations</u>					<u>TOTAL</u>
	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>Unknown</u>	
Paralytic	8	1	1	1*	3	14
Nonparalytic	9	0	4	4	1	18
TOTAL	17	1	5	5	4	32

* Originally reported as nonparalytic and diagnosis tentatively changed to paralytic.

No unusual geographic concentration of last week's 32 cases is apparent. Heavily populated Harris County (Houston) and Tarrant County (Fort Worth) reported 6 and 5 cases respectively; 3 cases each were reported from Hidalgo and Calhoun Counties in the southern part of the State. The remaining 15 cases were reported from 11 different counties scattered throughout the State.

A cumulative total of 208 cases have been reported from Texas in the 1957 calendar year, through the 22nd week, compared with 356 cases in 1956 and 333 in 1955 for comparable periods. In 1951 an identical number of 208 cases had been reported and in 1947 only 53 had been reported.

Geographic distribution of the 208 cases reported this year reveals that only the 5 counties listed below have reported more than 10 cases for the 1957 calendar year. (It may be noted that the largest number, 29, has been reported from Hidalgo County in the southernmost area of the state where moderate winter and spring incidence is usually recorded.)

<u>County</u>	<u>Number of Cases in 1957</u>
Hidalgo	29
Tarrant (Fort Worth)	26
Dallas	17
Harris (Houston)	16
Nueces (Corpus Christi)	14

III Routine Poliomyelitis Surveillance

Dr. James Bond, Epidemiologist, Florida State Health Department has reported the occurrence of acute severe cellulitis at the sites of inoculation in 8 out of 18 adults inoculated (one on 6/3 and seven on 6/4/57) from two vials of vaccine. The inoculations were given in a private physician's office using 2 ml. syringes (two doses per syringe) and individual needles.

PSU has received no other reports of similar reactions in association with this lot of vaccine; which was distributed in April and May. The two vials of vaccine were not available for culture, however the circumstances suggest that these illnesses resulted from local bacterial contamination of these two vials of vaccine.

* * * *

During the week ending June 5, the Polio Surveillance Unit received reports of five poliomyelitis cases occurring in 1957 within 30 days of a polio vaccine inoculation. Of these five cases, two were associated with a one million cc lot of Lilly vaccine (#683458) that was distributed to 37 states during March 1957. One of these two cases was nonparalytic; the other was reported from Louisiana in a 5 month old female with onset

of left leg paralysis 23 days after first inoculation given in the left hip. No other paralytic cases have been reported in association with this lot.

Of the three remaining under-30-day cases reported last week, two were nonparalytic; the third was reported from Louisiana in a 3 year old male with onset of paralysis (site not reported) 3 days following first inoculation, given in the arm, with Lilly vaccine (lot #679904). This one million cc lot was distributed in February, 1957, some 775,000 cc to 23 states and territories and the Department of Defense, and the balance for export. PSU had previously received two reports of paralytic poliomyelitis in association with this lot; onsets of illness in these two cases were 9 and 24 days following inoculation and in neither case was site of paralysis correlated with site of inoculation.

(This report was prepared by Dr. Lauri David Thrupp with assistance from the Statistics Section, CDC)

	in 1957	County
LDT	29	Hidalgo
(700)		Port Worth
		Harris (Houston)
		Wheeler (Corpus Christi)

III Routine Poliomyelitis Surveillance

Dr. James Bond, Epidemiologist, Florida State Health Department has reported the occurrence of acute severe encephalitis at the site of inoculation in 8 out of 18 adults inoculated (one on 6/3 and seven on 6/4/57) from two vials of vaccine. The inoculations were given in a private physician's office using 2 ml. syringes (two doses per syringe) and individual needles. The vaccine was prepared by the manufacturer and for distribution to the various states. The manufacturer was not contacted for the vaccine history.

PSU has received no other reports of similar reactions in association with this lot of vaccine; which was distributed in April and May. The two vials of vaccine were not available for culture, however the circumstances suggest that these illnesses resulted from local bacterial contamination of these two vials of vaccine.

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During the week ending June 5, the Polio Surveillance Unit received reports of five poliomyelitis cases occurring in 1957 within 30 days of a polio vaccine inoculation. Of these five cases, two were associated with a one million cc lot of Lilly vaccine (#683458) that was distributed to 37 states during March 1957. One of these two cases was nonparalytic; the other was reported from Louisiana in a 5 month old female with onset

Table 1

TREND OF 1957 POLIOMYELITIS INCIDENCE

State and Region	Cases Reported to NOVS* for Week Ending:						Six Week Total	Comparable Six Week Totals in:			
	4-27	5-4	5-11	5-18	5-25	6-1		1956	1955	1954	1953
UNITED STATES	49	40	71	59	61	64	344	569	1239	1061	977
NORTH EAST	1	-	6	1	2	1	11	38	124	39	84
Maine	-	-	-	-	-	-	-	-	1	-	5
New Hampshire	-	-	-	-	-	-	-	-	-	-	2
Vermont	-	-	1	-	1	-	2	1	-	-	-
Massachusetts	-	-	1	-	-	-	1	3	3	5	10
Rhode Island	-	-	-	-	-	-	-	-	3	-	-
Connecticut	-	-	1	-	-	-	1	6	3	3	6
New York	-	-	1	-	1	1	3	18	68	20	42
New Jersey	-	-	-	-	-	-	-	3	10	5	9
Pennsylvania	1	-	2	1	-	-	4	7	36	6	10
NORTH CENTRAL	6	8	7	7	10	6	44	104	229	142	169
Ohio	1	1	1	1	-	1	5	9	29	27	13
Indiana	-	3	-	-	-	-	3	3	15	8	14
Illinois	-	2	-	1	2	-	5	26	48	15	20
Michigan	1	-	-	4	1	3	9	14	29	29	17
Wisconsin	1	1	1	-	-	-	3	11	18	8	9
Minnesota	-	-	1	-	-	-	1	4	18	6	23
Iowa	-	-	-	1	-	-	1	16	22	10	17
Missouri	-	-	2	-	3	1	6	8	13	23	24
North Dakota	1	-	-	-	-	-	1	-	2	3	3
South Dakota	-	-	-	-	-	-	-	1	9	1	6
Nebraska	1	-	1	-	4	-	6	8	14	4	11
Kansas	1	1	1	-	-	1	4	4	12	8	12
NORTH WEST	2	1	4	-	1	1	9	11	121	27	28
Montana	-	1	-	-	-	-	1	-	5	1	3
Wyoming	-	-	3	-	-	-	3	-	4	-	2
Idaho	1	-	1	-	-	-	2	3	65	4	2
Washington	-	-	-	-	-	-	-	3	19	15	9
Oregon	1	-	-	-	1	1	3	5	28	7	12

* National Office of Vital Statistics

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Table 1 (Continued)

State and Region	Cases Reported to NOVS*						Six Week Total	Comparable Six Week Totals in:			
	4-27	5-4	5-11	5-18	5-25	6-1		1956	1955	1954	1953
SOUTH EAST	10	3	7	5	10	5	40	67	228	250	208
Delaware	-	-	-	-	-	-	-	1	13	-	-
Maryland	-	-	-	-	-	-	-	-	14	1	8
D. C.	-	-	-	-	-	-	-	-	2	1	2
Virginia	1	-	1	-	1	2	5	3	18	9	12
West Virginia	-	-	-	-	-	-	-	5	14	10	14
North Carolina	-	1	-	1	3	-	5	6	11	10	27
South Carolina	1	-	-	-	2	2	5	4	11	18	7
Georgia	-	-	-	1	1	-	2	1	39	36	19
Florida	4	1	5	2	1	-	13	26	55	110	38
Kentucky	2	-	1	-	-	1	4	8	25	9	13
Tennessee	1	1	-	1	-	-	3	9	9	10	17
Alabama	1	-	-	-	2	-	3	4	17	36	51
SOUTH CENTRAL	10	17	26	30	19	42	144	205	271	355	289
Mississippi	-	-	2	1	-	3	6	13	25	27	27
Arkansas	1	-	1	5	-	2	9	4	15	27	15
Louisiana	3	2	8	1	1	4	19	39	48	37	21
Oklahoma	-	-	-	-	-	1	1	10	10	27	24
Texas	6	15	15	23	18	32	109	139	173	237	202
SOUTH WEST	20	11	21	16	19	9	96	144	266	248	199
Colorado	1	-	-	1	2	1	5	3	27	11	12
New Mexico	2	-	2	1	1	-	6	3	6	3	-
Arizona	3	2	1	-	-	2	8	4	18	18	11
Utah	1	1	-	-	4	-	6	-	3	6	8
Nevada	-	-	-	-	-	-	-	1	10	6	-
California	13	8	18	14	12	6	71	133	202	204	168
TERRITORIES											
Alaska	-	-	-	-	-	-	-	2	3	4	4
Hawaii	-	-	-	-	-	-	-	4	6	34	5
Puerto Rico	-	-	-	-	-	-	-	11	53	1	2

* National Office of Vital Statistics.

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Fig. 1

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1952-1956

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS



