Library
54 Administrative Branch
4 57

REPORT NO. 259 JUNE 15, 1962

COMMUNICABLE DISEASE CENTER

# POLIOMYELITIS

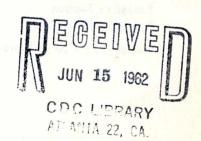
### SURVEILLANCE

TABLE OF CONTENTS

#### SUMMARY

- I. CURRENT MORBIDITY TRENDS
- II. STATE REPORT
- III. 1962 CASES REPORTED TO PSU
- IV. ROUTINE SURVEILLANCE 1962

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE



Library
Administrative Branch

### **PREFACE**

Summarized in this report is information received from State Health Departments, university investigators, virology laboratories and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address to: Chief, Poliomyelitis Surveillance Unit, Communicable Disease Center, Atlanta 22, Georgia.

Communicable Disease Center

Epidemiology Branch
Statistics Section
Surveillance Section
Poliomyelitis Surveillance Unit

Clarence A. Smith, M.D., Chief Alexander D. Langmuir, M.D., Chief Robert E. Serfling, Ph.D., Chief Donald A. Henderson, M.D., Chief Michael Regan, M.D., Chief James A. Bryan, II, M.D. Leo Morris, Statistician

### 1962 ONSET THROUGH JUNE 9.

#### SUMMARY

The number of case reports remained at a low level during the week ending June 9 with telegraphic reports of 6 cases, all paralytic.

Texas reported 5 of the 6 cases during the current week and continues to account for the largest State total during 1962. A narrative report summarizing the South Texas poliomyelitis experience to date and detailing the results of community oral poliovaccine programs conducted there is included in Section 2.

Specific case data have been received on 61 of the 91 paralytic cases with onset in 1962. Twenty-five cases have yielded poliovirus isolates; 21 have been type I. Over half of these are from Texas.

### 1. CURRENT MORBIDITY TRENDS

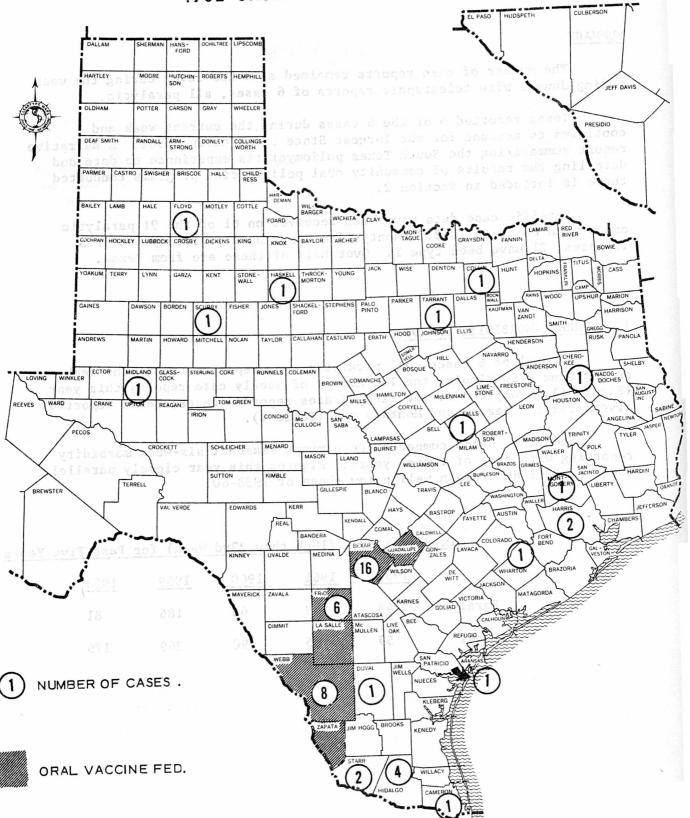
A total of 6 cases, all paralytic, was reported during the week ending June 9 continuing the low number of weekly case reports this year (Figure 1). Only two of the fifty States reported cases; Texas reported five paralytic cases, and Montana one (Table I).

The table below compares the current seasonal six-week morbidity reporting with that of recent years. Figures this year closely parallel those of 1961 and remain well below those of 1958-60.

Six-Week To	tals (18th	thru 23rd	Week) for	r Past	Five Years

	1962	1961	1960	1959	1958	
Paralytic	48	49	65	186	81	
Total	59	65	90	269	176	

REPORTED PARALYTIC POLIOMYELITIS IN TEXAS BY COUNTY
1962 ONSET THROUGH JUNE 9



### by week of onset. We paralytic cases have been **SAXST** in TROPS STATE Webb County since the oral vaccine program. Five cases in Beker County

I - Received Type I

Dr. Van C. Tipton, Chief, Communicable Disease Division, Texas State Department of Health, reports an additional 14 cases of poliomyelitis from Texas. Five of the 14 cases were reported for the week ending June 9; the other 9 cases are delayed reports.

Through June 9, 59 cases of poliomyelitis, 52 paralytic, have been reported from Texas. The 52 paralytic cases are shown below by county and vaccination history. Eighty-four percent of the paralytic cases with known vaccination history were unvaccinated. The concentration in South Texas is evident with 34 paralytic cases from the counties of Bexar, Webb, Frio, and Hidalgo.

## PARALYTIC POLIOMYELITIS BY COUNTY AND VACCINATION STATUS TEXAS, 1962

100 100 100	Va	ccinatio	n Histo	ry	
County	OV	<u>1-2V</u>	3+V	Unk.	<u>Total</u>
Bexar	15	1	0	0	0.7.16
Webb	5	1	2	0	8 01177
Frio	4	2	0	0	6
Hidalgo	4	0	0	0	4
Harris	2	0	0	0	2
Starr	1	0	0	1	2
Others	7	0	1	6	14
Total	88	4	3	7	52

The map of Texas on page 2 depicts the number of cases in each county. In addition, the 6 counties having mass immunization programs with Type I oral vaccine are shaded. The number of doses administered in each county is as follows:

County	Date of Feeding	No. of Doses
Bexar	#4\0-18\dMay 31 - June 4	602,200
Webb	May 27 - June 2	62,500
Guadelupe	June 4	11,900
Frio	May 31 and June 2	9,300
LaSalle	June 4	4,100
Zapata	May 27 - June 2	1,300
Total	I	691,300

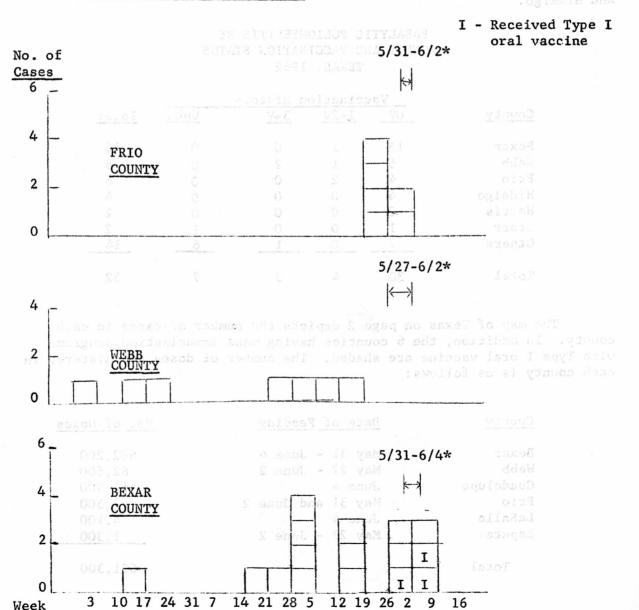
10 17 24 31 7 14 21 28 5 12 19 26 2 9 16
March April May June

The paralytic cases in Bexar, Webb, and Frio Counties are shown below by week of onset. No paralytic cases have been recognized in Frio or Webb County since the oral vaccine program. Five cases in Bexar County have had onset since the beginning of oral vaccine administration on May 31. Three of these cases received oral vaccine. The longest interval between feeding and onset in these cases was 8 days.

PARALYTIC POLIOMYELITIS BY
WEEK OF ONSET - FRIO, WEBB
AND BEXAR COUNTIES, TEXAS

The 52 peralytic cases are shown below by county and

\*Dates of Type I oral vaccine program.



April

May

June

March

Ending

### 3. 1962 POLIOMYELITIS REPORTED TO PSU

Of the 114 cases of paralytic poliomyelitis reported through the week ending June 9, 91 had onset in 1962. Twenty-three cases represent delayed reports with onsets of illness in 1961.

There have been 25 poliovirus isolates obtained thus far from the 91 paralytic cases. Of these, 21 are Type I and 4 are Type III poliovirus. Over half of the isolates have been reported from Texas, the scene of a Type I outbreak. The isolates have been reported from the following States:

nder-30-day cases	d eeudi	oliovirus	k ending	sow sdd	gainul	
nder-30-dey cases ice Unit from Toxas have not yes deta	veiliev Casas	98-113-110	Politice Care	to the th speci	Tota	rei
Arizona	2	0	0		2	
California	0	0	1		1	
Kentucky	0	0	1		1	
Louisiana	2	0	0		2	
New York	3	0	0		3	
Ohio	0	0	1		1	
Texas	13	0	1		14	
Utah	_1_	0	0		_1_	-
Total	21	0	4		25	

The Poliomyelitis Surveillance Unit has received individual case forms on 61 of the 91 paralytic cases with onset in 1962. Over 60 percent of these cases have been unvaccinated.

		Vaccina	ation St	tatus		
	OV	<u>1-2V</u>	<u>3V</u>	<u>4+V</u>	Unk.	Total
1962 Paralytic Cases:	37	10	6	6	2	61

### 4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

### A. Cases with Onset Within 30 Days of Vaccination (Inactivated)

Three cases of poliomyelitis with onset within 30 days of inoculation have been reported to the Poliomyelitis Surveillance Unit during the week ending June 9. All 3 cases, 2 of which are nonparalytic, are from Bexar County, Texas. An immunization campaign with inactivated vaccine was being conducted in Bexar County (San Antonio) due to the outbreak of poliomyelitis in that area.

All 3 cases, previously unvaccinated, had onset within 4 days following inoculation. The paralytic case is a 4 year old male with onset on May 14. He received his first dose of inactivated vaccine on May 10 in the right arm and suffered paralysis in the left arm and leg. Vaccine used was Lilly Lot No. 787007.

### B. Cases with Onset Within 30 Days of Vaccination (Oral)

During the week ending June 9, three under-30-day cases (OPV) have been reported to the Poliomyelitis Surveillance Unit from Texas. Individual case forms with specific data on these cases have not yet been received.

The Polimayel'sis Sarvell'ance Unit has received individual case one of of the 91 paralytic cases which cases in 1962. Over 60 percent these cases have been unvaccionated.

1961 Terelytic Cases: 37 | 10 6 6 2 | 61

Three cases of policepellits with ourse virhin 30 days of ineculations bean reported to the Policevelltis Surveillance that chringthe week soding lace 9. All 3 cases, 2 of which are proparalytic, are from Senar Sounty, laxe, An inmunication compalys with inactivated thecine was being conducted in Beauty (San Antendo), due to the outbreak of policewellst

Figure 1 CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1957, 1959, and 1961

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS
AND COMMUNICABLE DISEASE CENTER

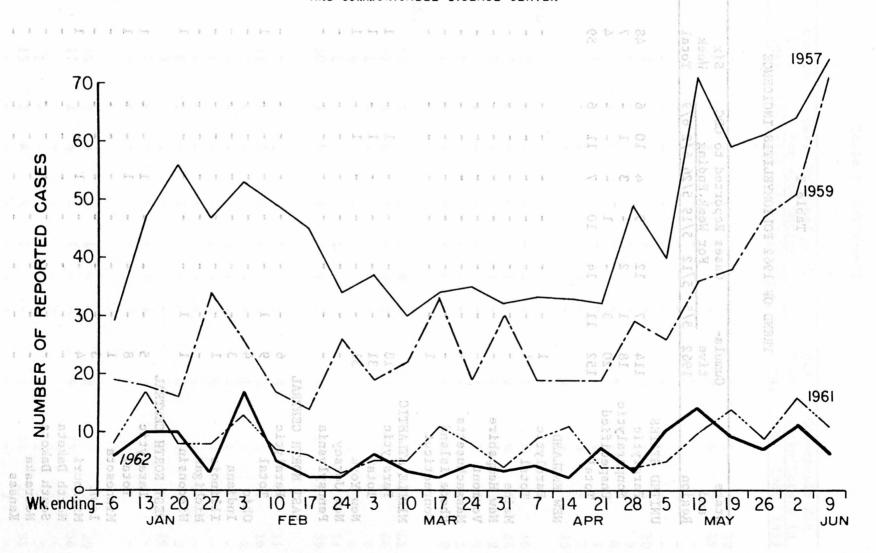


Table I
TREND OF 1962 POLIOMYELITIS INCIDENCE

114 18 20	7 1 3 11	5/12  12 2 - 14	9 - 1 10	Endi 5/26 4 3 - 7		6 - 6	Week Total 48 7 4 59	Weeks 1961 49 10 6 65	1960 65 18 7 90	1959 136 61 22
114 18 20 152	7 1 3	12 2	9 - 1	4	10 1	6 - -	48 7 4	49 10 6	65 18 7	136 61
18 20 152	1 3	2 -	1	3	1 -	-	7 4	10 6	18 7	61 22
18 20 152	1 3	2 -	1	3	1 -	-	7 4	10 6	18 7	61 22
18 20 152	3	2 -	1	-	-	-	4	6	7	22
20 152	3			-		- 6				
152		- - -		7	11	6	59	65	90	269
	-	-	-	- a						
	:	-	-	-						
	:	-	-	222	_	_	-	G :	7	2
	-	-		-	-	-	_	_	7	2
	-		-	_	_	-	-	-	1	•
-	-	_	_	_	_	_	_	. K (2) _		•
 -	_	_	_	_	_	_	_			-
-		1 2	_	_	_	_	_		2	•
-		1 -	_	. <del></del>	_	_	_	- w	4	2
7		<i>-</i>	-	-	_	_	_	No. and a second		÷
ı	- /	-	-	-	-	-	•			
										0
18	-	-	_	- ,	1	-	1	7	2	8
31	-	-	-	-	1	-	1	8	3	11
31	-	/ -	-	-	1	-	1	1	2	0
	-	<u> </u>	_	-	_	-	-	6	1	ל
	-	-	-	-	-	-	-	1	-	•
τ.									and the same	
	_	_	_	_	_	_	_	2	4	12
	1	_	_ ``	_	_	_	1			28
		_	_	_	_	_	_			12
	_		<del>-</del>	_	_	_	_	1		3
	-	-	-	-	-	-	_		2	2
1	-	· -	<del>-</del>	-	-	_	-		2	10
-	-	-	-	•		-	-	1		1
1	Ţ	-	-	-	-	-		-	<u>.</u>	â
L										28
5	-	-		1	-	-	1	2	2	40
8	-		-	1	-	-	1	5	4	40
1	_	•	-	-	-	-	-	2	(0 e- vg)	- 6
3				_		•	-	-	1	16
4	_	- 1	_	1	·	-	1	3		4
_	_	-	_	-	-	-	-	-	-	
-	_				_	-	_	-	2.00	1
	. bii	544		7.1.	_	_		_	_11	7
_	_	_	_		_	_	_		1	7
	31 31 - - L 6 9 4 3 1 - 1 L 5 8 1 3	18 - 31 - 31	18	18	18	18 1 31 1 31 1 1 1 	18	18	18	18

Table I (Continued)

State	Cumula- Cases Reported to CDC							Six		able :	
and	tive			eek Er				Week		Total	
Region	1962	5/5	5/12	5/19	5/26	6/2	6/9	Total	1961	1960	1959
SOUTH ATLANTIC											
Paralytic	8		1	1	_			2	6	5	39
Total	10	1	1	1				2	6	7	48
Delaware	10	-						3	0		48
Maryland											
D. C.											
Virginia	2										10
West Virginia	_	-							1	ī	5
North Carolina	2	1						1	1	2	4
South Carolina	1							-	1	1	
Georgia	2		1					1	3	•	1 3
Florida	3		•	1				1	3	3	25
				i i						•	23
EAST SOUTH CENTRAL											
Paralytic	5			-	•	1	•	1	3	4	16
Total	7	1		-	•	1		2	4	5	24
Kentucky	2				•	1		1	1	1	2
Tennessee Alabama	2	1	•	•	•	-	•	1	1	1	9
Miasi	1		-	•			•				5
Mississippi	2	•						•	2	3	8
WEST SOUTH CENTRAL											
Paralytic	50	5	7	6	1	8	5	32	10	13	41
Total	57	5	8	6	, 4	9	5	37	16	22	64
Arkansas	1	-	-	-	-	-	-	-			8
Louisiana	5	-	-		, -	-	-	•	2	9	6
0klahoma	1	-	-		1	-	•	1	•	1	11
Texas	50	5	8	6	3	9	5	36	14	12	39
MOUNTAIN											
Paralytic	7		1	-	1		1	3	2	3	11
Total	12	1	ī	1	ī		ī	5	3	6	16
Montana	3				_		ī	i		5	2
Idaho									1		_
Wyoming	1				1			1			
Colorado											
New Mexico	4	1	4 20	1				2			3
Arizona	3		1					ī	2	1	11
Utah	ĭ										- 11
Nevada			-		-		-	-			
PACIFIC											
Donaloud	14	•	•	•							
Paralytic Total	14	2 2	3	2 2	1			8	17	25	29
Washington	17	2	4	2	1			9	19	27	36
Oregon				-			•	•	5	1	:
California	1	•		1	;		\ •	1	2	-	5
Alaska	15	2	4	1	1		-	8	11	22	31
Hawaii	i					1	ATD.			2	•
	1						NR		1	2	•
TERRITORY											
Puerto Rico	6	-	•		•	1		1	1	98	

Table I (Continued,

	+						243	to.			
	Ī		-4				5,172	-10			
formia			Ø.	T			-				
				j			140				
ington			4.00					j 	5		
	FA	2		2							
erollude				2							2.9
SIG											1
25.2.04											
	~						Dec				
		149				100					-
ona	3										
Mexico	64	7			-16.						
	444		(41)	-			*-				
		4.9									
	-				0.11			-04			
Mana	3							Ĩ			
praj	1.2										
sralytic.											
Homa	7	200									
siena		500									
msas	Ĩ										
(009) -	27								40		
Assiyate			1		Ţ			33	10		
South channel			.00								
gaerbby	S						1.0				
		*					**				
		ž.	W11.								
	- 3										
	1.										
Paralytle								I			
I SOUTH CENTRAL											
	3		100				411			. 3	
th Caroling						146	400				
th Carolina	2.2		-+								
t Virginia			~10								
ginia											
2.		140	(in								
yland						. ***					
		47		**							
	IO	Ŧ					***				
Paralytic	- 8										
TH ATLANTIC											
тильну, це, т поколь поверходують техно мерги ком на набражения. То до 5.55		A SECTION OF THE PERSON OF THE									
100		5/5		Week Dak 3/19 3			2/3	Total			1039
	C [A6										
$\frac{1}{2} e^{-\frac{2\pi i}{3}} d^2 = \frac{1}{2} e^{-\frac{2\pi i}{3}} e^{-$	Cumula-	resource en sonarces								able S	