

REPORT NO. 274
JANUARY 18, 1963

COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE

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AMERICAN ACADEMY OF PEDIATRICS

SUPPLEMENT TO PSU 274 -
Index to 1962 PSU Reports

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

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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:
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SUMMARY

The expected seasonal decline in cases has occurred with only 32 paralytic cases being reported during the four-week period ending January 12. These largely represent delayed reports with no case concentrations being noted.

The preliminary figures for paralytic and total cases of poliomyelitis for 1962 show a 20 percent decline in paralytic cases in comparison with the figures for 1961, the preceding record low year.

Individual case forms have been received on 653 of the 708 paralytic cases reported in 1962. Of these cases, 23 percent gave a history of having received 3 or more doses of inactivated vaccine. The reports of virologic studies received thus far on these cases are also shown in Section 2.

Surveillance data on cases occurring within 30 days of receiving the poliomyelitis vaccines are presented in Section 3. Sixteen paralytic cases have been noted following inactivated vaccine and 58 following oral vaccine.

Enterovirus isolates have been reported from 34 States with Coxsackie B-3 and ECHO 9 being reported from the greatest number of these States.

In Section 5 a preliminary report on the current poliomyelitis outbreak in British Guiana is presented. Three hundred sixty-one cases have been reported from November 1, 1962 through January 15, 1963.

The position taken by the American Academy of Pediatrics on the use of oral poliomyelitis vaccine is presented in Section 6.

The Index for 1962 Poliomyelitis Surveillance Unit Reports is appended as a supplement to this issue.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

During the four weeks from December 16, 1962 through January 12, 1963, a total of 37 cases of poliomyelitis, 32 paralytic, were reported. Eighteen of the paralytic cases were reported for the week ending December 22.

Reports of cases during the past four weeks came from 14 States and were in the main delayed reports. Pennsylvania accounted for 7 paralytic cases while California and Louisiana reported 6 cases each.

The totals for cases reported by telegram through the last week in 1962 are shown below compared with those of the preceding four years.

Poliomyelitis (1st through 52nd Week) for the Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	708	884	2292	5715	3150
Total	889	1364	3301	8573	6092

2. 1962 POLIOMYELITIS CASES REPORTED TO PSU

Summary

A total of 889 cases of poliomyelitis with onset in 1962 has been reported by weekly telegrams to the CDC Morbidity and Mortality Unit. Of these, 708 have been paralytic. These figures represent a preliminary count. The final data will include 1962 delayed case reports and case revisions, and will be presented in the annual supplement of the Morbidity and Mortality Weekly Report in the latter part of this year.

The Poliomyelitis Surveillance Unit has received individual case forms on 653 of the 708 paralytic cases reported. The vaccination status of these 653 paralytic cases by age groups is shown below.

Paralytic Poliomyelitis by Age Group And Vaccination History Reported on PSU Forms (Through January 12, 1963)

Age Group	Doses of Inactivated Vaccine					Total	Percent
	0V	1-2V	3V	4+V	Unk.		
0-4	212	50	16	23	11	312	47.8
5-9	64	17	22	32	3	138	21.1
10-14	23	15	18	9	3	68	10.4
15-19	13	4	6	4	1	28	4.3
20-29	38	6	3	4	2	53	8.1
30-39	21	6	2	2	1	32	4.9
40+	18	1	0	2	1	22	3.4
TOTAL	389	99	67	76	22	653	100.0
PERCENT DOSES	61.7	15.7	10.6	12.0	-	100.0	

Of the 301 cases with known vaccination history in the 0-4 age group, 212 (70.4 percent) had not received any poliomyelitis vaccinations and only 39 (13.0 percent) gave a history of three or more doses of inactivated vaccine.

As of January 12, 1963, the Poliomyelitis Surveillance Unit has received results of virological studies on 406 of the 653 paralytic cases. A total of 350 poliovirus isolates (86.2 percent) has been recovered from the 406 cases. Of these, 265 are Type I, 5 are Type II, and 80 are Type III polioviruses. Isolates associated with clinical paralytic poliomyelitis have been reported from the following States.

Poliomyelitis (All Types) for the Year 1962

Year	1962	1961	1960	1959	1958
Paralytic	708	884	1,393	2,713	3,130
Total	889	1,064	1,901	3,323	4,002

State	Poliovirus			Total
	I	II	III	
Alabama	11	0	0	11
Arizona	2	0	0	2
Arkansas	7	1	0	8
California	25	0	12	37
Colorado	1	2	0	3
D.C.	0	0	1	1
Florida	0	0	2	2
Georgia	4	0	1	5
Idaho	0	0	1	1
Illinois	23	0	7	30
Indiana	6	0	0	6
Kentucky	13	0	1	14
Louisiana	14	0	8	22
Maryland	1	0	0	1
Massachusetts	3	0	0	3
Michigan	8	0	4	12
Minnesota	4	0	0	4
Mississippi	1	0	7	8
Missouri	2	2	0	4
Montana	1	0	0	1
Nebraska	0	0	1	1
New Hampshire	1	0	2	3
New Jersey	1	0	0	1
New Mexico	2	0	0	2
New York	7	0	7	14
North Carolina	3	0	0	3
Ohio	9	0	4	13
Oregon	0	0	3	3
Pennsylvania	5	0	5	10
South Carolina	2	0	3	5
Tennessee	3	0	1	4
Texas	90	0	7	97
Utah	1	0	0	1
Washington	3	0	1	4
West Virginia	10	0	1	11
Wisconsin	1	0	1	2
Wyoming	1	0	0	1
TOTALS	265	5	80	350

3. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

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

During the four-week period from December 15, 1962 to January 12, 1963, three cases of poliomyelitis (including 2 paralytic) occurring within 30 days following vaccination have been reported on individual surveillance forms to the Poliomyelitis Surveillance Unit. All three cases had onset of illness in 1962. Alabama, California, and South Carolina accounted for one case each. There was no correlation between site of injection and site of first paralysis in the two paralytic cases.

A line listing of the three cases is given below:

<u>State</u>	<u>County</u>	<u>Age</u>	<u>Sex</u>	<u>Onset</u>	<u>Date Vacc.</u>	<u>Onset Interval</u>	<u>Previous Para. IPV</u>	<u>Para. Status</u>	<u>Isol.</u>
Alabama	Choctaw	6	M	9/17	9/15	2 days	0	P	I
California*	Marin	33	F	10/22	10/17	5 days	4	NP	III
So. Carolina	Charleston	18/12	M	9/26	9/14	12 days	2	P	I

* This case also received Type I oral polio vaccine on 9-23.

Twenty-two cases of poliomyelitis (16 paralytic) with onset in 1962, occurring within 30 days of vaccination, have been reported to the Poliomyelitis Surveillance Unit. There was a correlation between site of injection and site of first paralysis in one paralytic case.

B. Cases with Onset within 30 Days of Vaccine (Oral) - 1962

The Poliomyelitis Surveillance Unit has received reports of 6 additional cases of poliomyelitis with onset in 1962, occurring within 30 days following oral vaccination. Five of the 6 were paralytic. Three cases occurred in California, and one case each in Alabama, Montana, and Texas. Type I oral polio vaccine was administered to each of the 6 patients within 30 days prior to onset.

A detailed line listing of the 6 cases appears below.

<u>State</u>	<u>County</u>	<u>Age</u>	<u>Sex</u>	<u>Onset</u>	<u>Date Fed</u>	<u>Type Fed</u>	<u>Onset Interval</u>	<u>Doses IPV</u>	<u>Para. Status</u>	<u>Isolate</u>
Alabama	Mobile	23/12	F	9/17	9/6	I	11 days	3	P	-
California	Marin	33	F	10/22	9/23	I	29 days	5	NP	III
California	Marin	30	M	10/7	9/23	I	14 days	1	P	III
California	San Diego	35	M	11/6	10/28	I	9 days	0	P	I
Montana	Park	39	F	10/16	10/7	I	9 days	3	P	-
Texas	Ellis	1	F	8/12	8/10	I	2 days	0	P	I

Polio Virus Surveillance

Sixty-seven cases of poliomyelitis (58 paralytic) with onset in 1962, occurring within 30 days following oral vaccination have been submitted to the Poliomyelitis Surveillance Unit on individual surveillance forms. Of the paralytic cases, 31 had received Type I oral polio vaccine within 30 days prior to onset, 3 had taken Type II vaccine, and 24 had been fed Type III vaccine. From month of vaccine licensure through November 1962, 33 million doses of Type I oral polio vaccine, 14 million doses of Type II vaccine, and 12 million doses of Type III vaccine have been administered in known mass community oral vaccination programs.

2. POLIO REPORTS: British Isles

Dr. R. S. G. Nichol, Acting Chief Medical Officer for Great Britain, has reported the occurrence of 14 cases of paralytic poliomyelitis during January 1962. The age group involved has been predominantly the very young, with 50 percent of the patients being below six years of age and almost 40 percent being below 2 years of age. Type I poliomyelitis has been reported from a large number of these patients.

At the request of the Government, the National Development Commission has arranged for epidemiological and clinical studies of poliomyelitis from the Commonwealth. These studies have been carried out by the National Institute for Research in Diphtheria, Tetanus and Poliomyelitis, and the results are being published in the British Medical Journal. This work has been carried out during the last year and the results are being published in the British Medical Journal. In the meantime, the following information is being reported: The number of cases of poliomyelitis reported in the British Isles during the last year has been 14. This is a full analysis of the poliomyelitis cases reported in the British Isles during the last year.

4. ENTEROVIRUS SURVEILLANCE

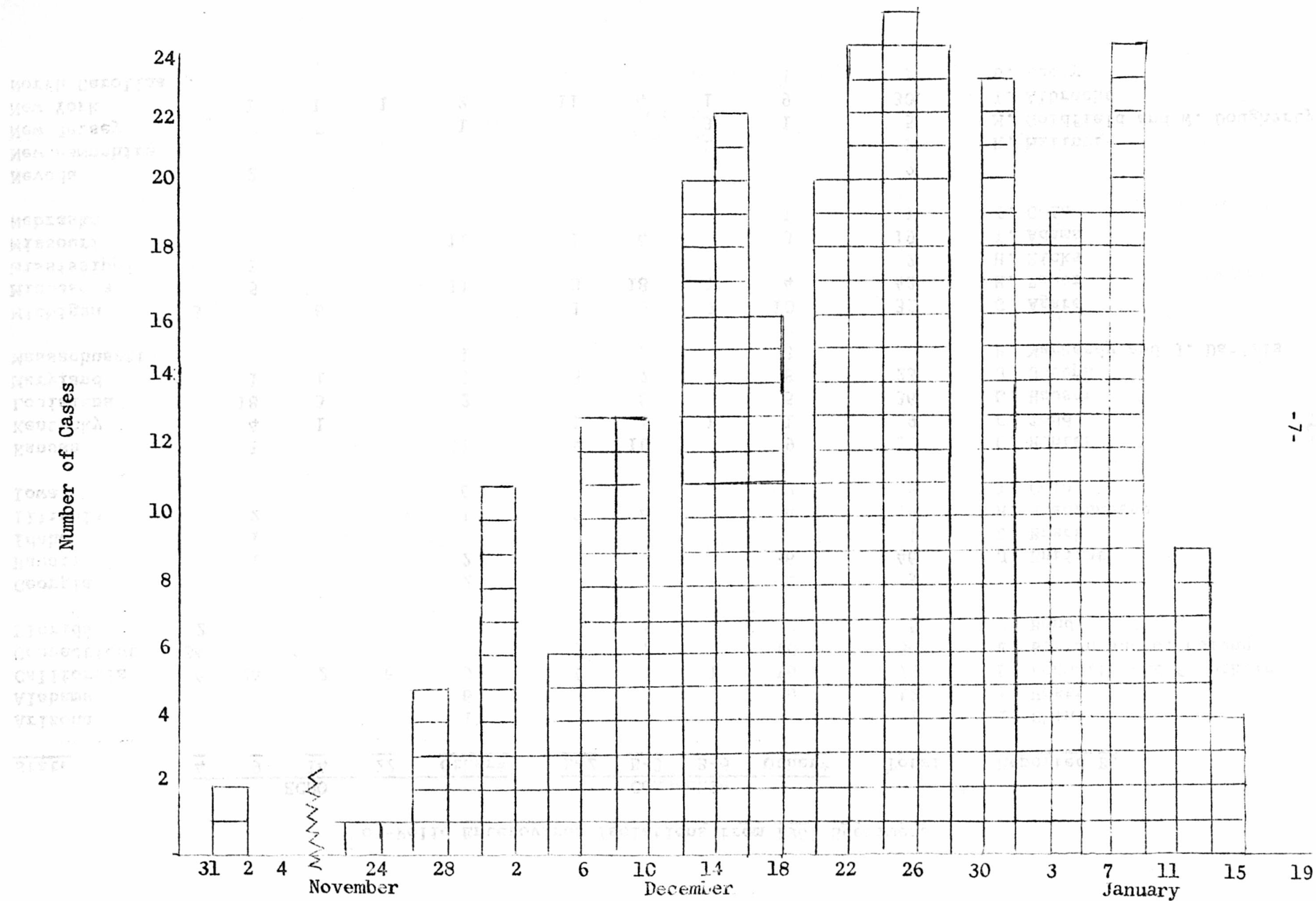
A total of 612 non-poliomyelitis enterovirus isolates from 1962 specimens have been reported from 34 States. Coxsackie B₃ was reported from 21 of these States, and ECHO₉ from 18 States. In California, Louisiana, Ohio and Texas, ECHO₉ accounted for the largest proportion of non-polio enteroviruses reported. In Connecticut, ECHO₄ accounted for the largest proportion of isolates made; in Hawaii - Coxsackie A₄ and A₅; in Michigan - Coxsackie A₉; and in New York - Coxsackie B₂.

5. FOREIGN REPORTS: British Guiana

Dr. B.B.G. Nehaul, Acting Chief Medical Officer for British Guiana has reported the occurrence of 361 cases of paralytic poliomyelitis through January 15, occurring in an epidemic which began during the last week in November. The age group involved has been predominantly the very young with 90 percent of the patients being below six years of age and almost 40 percent being below 2 years of age. Type I poliovirus has been recovered from a large number of these patients.

At the request of the Guianian government, the Agency for International Development arranged for epidemiologic aid, with a team of four physicians from the Communicable Disease Center headed by Dr. Henry Gelfand to aid in the use of trivalent oral polio vaccine, supplied by the United States. This vaccine was administered beginning in Georgetown on December 22, with continued use during the following three weeks throughout the remainder of Guiana. In the histogram, which appears on the next page, cases of poliomyelitis are shown by date of onset of illness, as reported through January 15. A full analysis of the epidemic will appear in a subsequent issue of the PSU reports.

POLIOMYELITIS - BRITISH GULANA BY DATE OF ONSET



Non-Polio Enterovirus Isolations from 1962 Specimens

State	ECHO					Coxsackie				Total	Reported By
	4	9	14	22	Other*	B-2	B-3	B-5	Other*		
Arizona					1					1	T. Chin
Alabama					6				6	12	T. Hosty
California	6	24	2	6	9	4	4	1	16	72	E. Lennette and P. Wehrle
Connecticut	34					3	7		10	54	E. Borman and G. Hsiung
Florida	2						1		2	5	J. Bond
Georgia					2		2	1	4	9	
Hawaii		1			2			7	36	46	J. Enright
Idaho		1								1	D. Brack
Illinois		2			1	3	4		4	14	H. Shaughnessy
Iowa					6				2	8	T. Chin
Kansas		1			11	4	10		9	35	C. Hunter
Kentucky		4	1			1	1	1	1	9	C. Todd
Louisiana		18	3		2		8		5	36	G. Hauser
Maryland		1	1		3	3	7		8	23	J. Joseph
Massachusetts					1		3		3	7	R. MacReady and J. Daniels
Michigan	3		6			1	5	7	10	32	G. Agate
Minnesota		5			11	3	18	1	4	42	H. Bauer
Mississippi		2								2	H. Ricks
Missouri					11	1	4		3	19	I. Adams
Nebraska									1	1	T. Chin
Nevada		2								2	
New Hampshire								2		2	R. Miliner
New Jersey					1			3	1	5	M. Goldfield and W. Dougherty
New York	1		1	1	2	11	4	1	9	30	I. Albrecht
North Carolina									1	1	L. Madry

Non-Polio Enterovirus Isolations from 1962 Specimens (Continued)

State	ECHO				Other*	Coxsackie				Total	Reported By
	4	9	14	22		B-2	B-3	B-5	Other*		
Ohio		14				7	11	4	7	43	C. Croft
Pennsylvania		2	1		6	2	9	3		23	K. Hummeler and I. Gratch
Rhode Island	1							1		2	G. Hsiung
Tennessee		1					7		2	10	C. Tucker
Texas	6	21			2	2	1		4	36	J. Irons and A. Behbehani
Utah									1	1	R. Fraser
Virginia					3		2		2	7	E. Foxhall
Washington		1	1		2		2		1	7	K. Berquist and W. Giedt
Wisconsin		6			3	1	3		2	15	A. Evans
										<hr/> 612	

* Specific types include 15 Coxsackie A-4 and 12 A-5 in Hawaii, and 6 A-9 in Michigan.
A variety of single isolates of other ECHO and Coxsackie types have been reported.

6. STATEMENT OF COMMITTEE ON CONTROL OF
INFECTIOUS DISEASES
ON
ORAL POLIOVACCINE

Released January 19, 1963

After careful re-evaluation of all previously reported cases and all newly reported cases of polio-like illness following administration of oral polio vaccine (OPV) in non-epidemic areas, Surgeon General Luther L. Terry and his Advisory Committee on Oral Poliomyelitis Vaccine recommended on December 18, 1962 that communities planning immunization campaigns against poliomyelitis "are urged to move ahead, using all three virus types of Sabin Oral Vaccine with particular emphasis on children and young adults." The Academy of Pediatrics Committee on Control of Infectious Diseases supports the recommendation and advises resumption of Type III OPV programs.

Excerpts from the Surgeon General's report which form the basis for the present Academy recommendation are as follows:

Some of the cases previously accepted as "compatible" have been dropped from this category because of additional clinical and laboratory evidence that has become available, and some new cases have been added.

The Committee does not consider that any individual case can be proved to be caused by the vaccine and no laboratory test has thus far provided a definite answer.

Considering the large amount of vaccine administered--it is concluded that contact spread to household contacts has posed no significant hazard.

As stated by the Surgeon General's committee, the maximum potential risk for Types I and III is of the order of one per million or less overall, but higher for those over 30 years of age. For Type II there is no indication of risk.

The Committee emphasized the importance of immunizing children in whom the danger of naturally occurring disease is greatest, and for adults who are at higher risk of naturally occurring disease; for example, parents of young children, pregnant women, persons in epidemic situations, and those planning foreign travel.

In summary: Two polio vaccines are now available and are recommended by the Public Health Service and endorsed by the Committee on Control of Infectious Diseases. Choice of which vaccine to use must rest with each community and each physician, and will be governed by local conditions, facilities, leadership, etc. Procedures for using Salk vaccine are well known. Procedures for using OPV should be guided by the recommendations of the Surgeon General and by the experience of numerous successfully

completed community programs. The OPV is particularly indicated for Immunization of children who are the carriers of poliovirus in a community, for parents of young children because they are exposed to greater risk of natural infection, and in epidemic situations where it is more effective than killed vaccine.

Committee Members

Lewis L. Coriell, M.D., Chairman
David Karzon, M.D.
George A. McNaughton, M.D.
Margaret H.D. Smith, M.D.
Henry B. Streng, M.D.
Franklin H. Top, M.D.

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Thomas H. Weller, M.D.
Sarah H. Wood Sell, M.D.
Guillermo Tovar, M.D.

Figure 1a

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1957, 1959 and 1961 April - December, by week

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

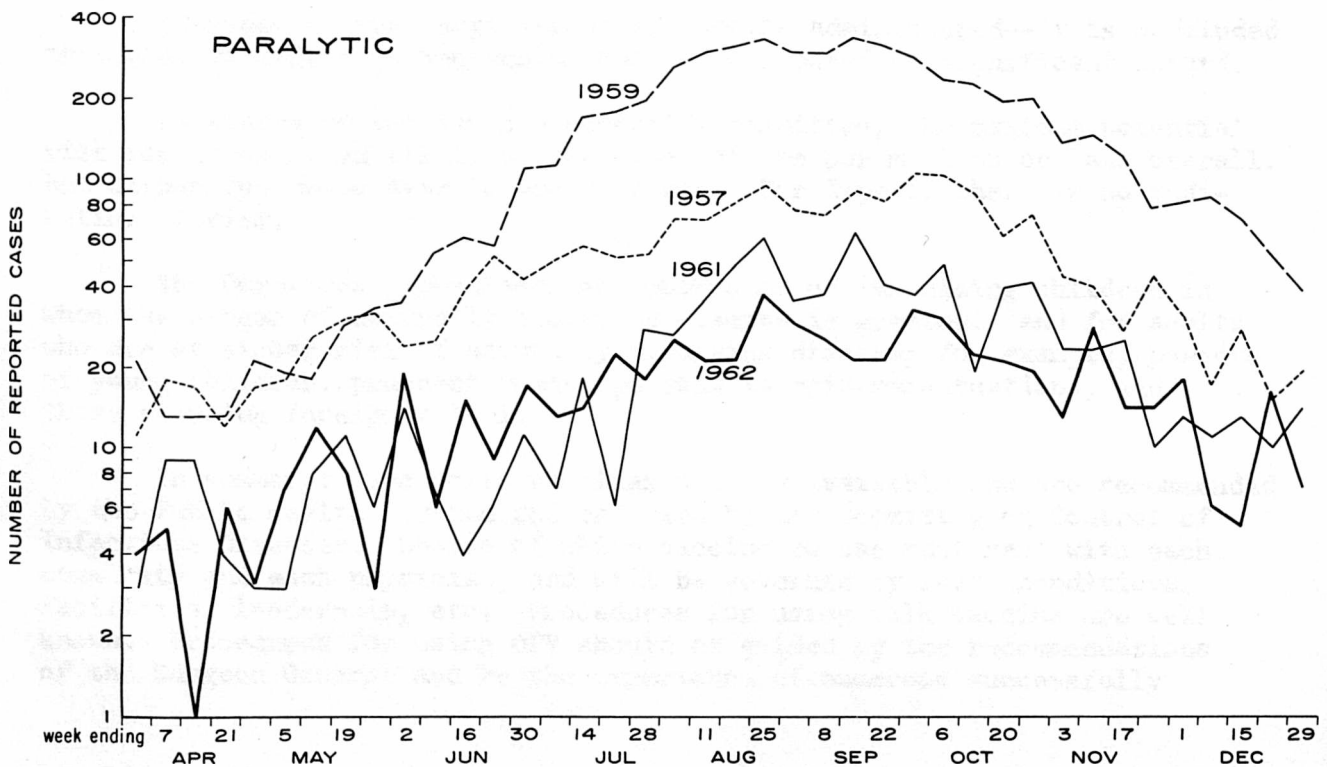
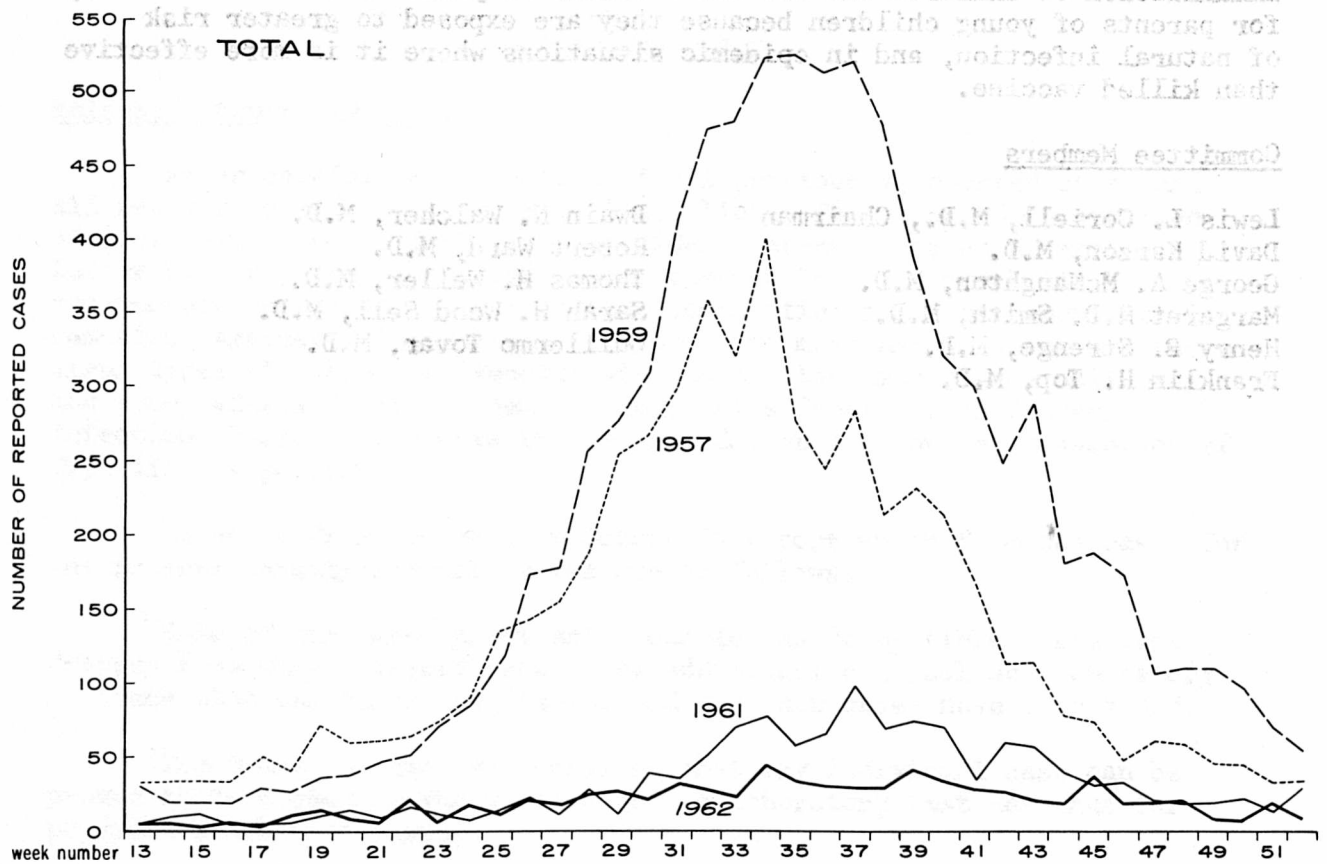
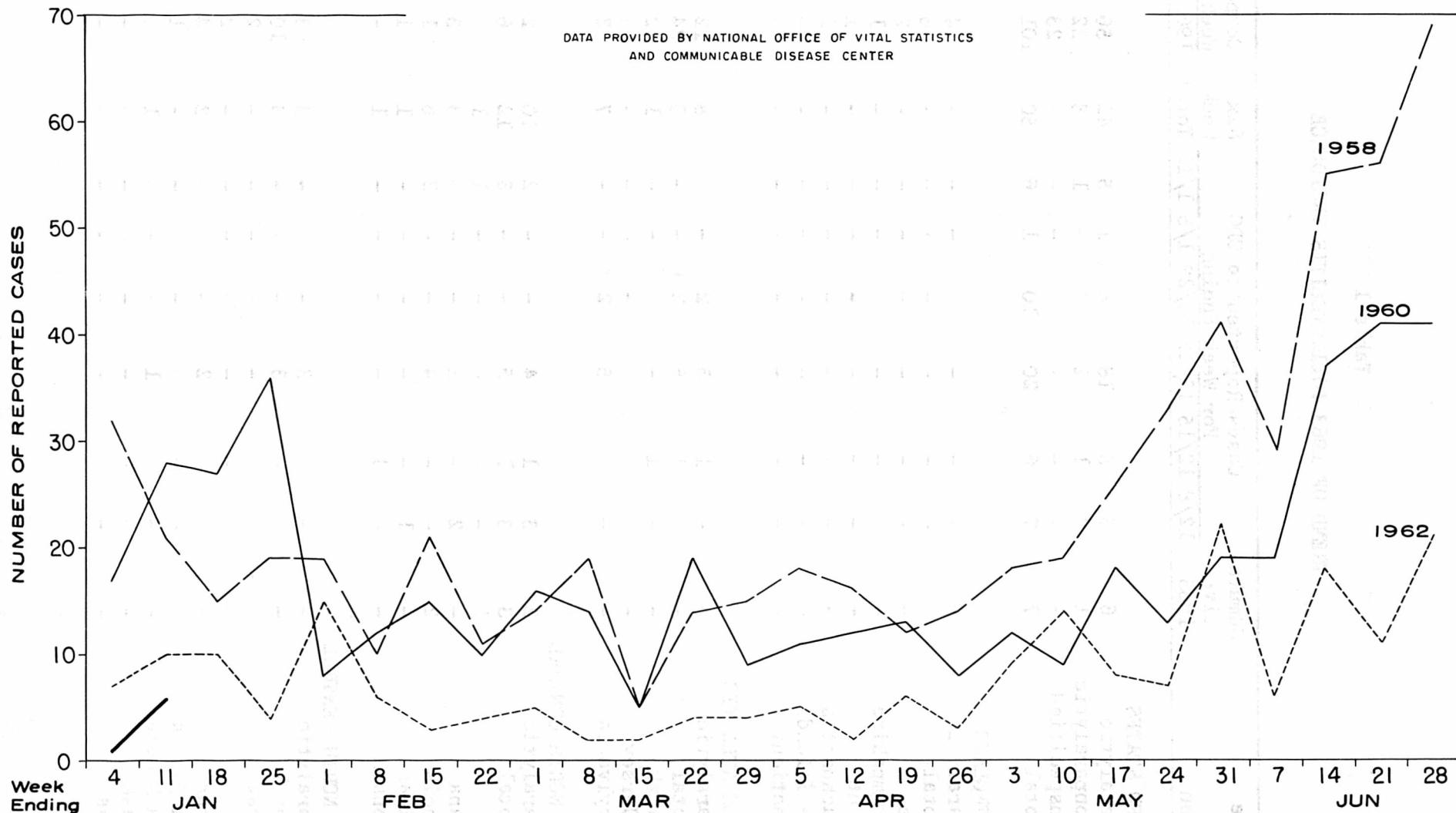


Figure 1

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1958, 1960, and 1962



TREND OF 1963 POLIOMYELITIS INCIDENCE

[illegible]

Table 1 (Continued)

State and Region	Cumula- tive 1963	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		12/8	12/15	12/22	12/29	1/5	1/12		1962	1961	1960
SOUTH ATLANTIC											
Paralytic	-	-	-	-	1	-	-	1	7	26	48
Total	-	-	-	-	2	-	-	2	9	32	59
Delaware	-	-	-	-	-	-	-	-	-	1	-
Maryland	-	-	-	-	-	-	-	-	4	12	2
D.C.	-	-	-	-	-	-	-	-	-	-	1
Virginia	-	-	-	-	-	-	-	-	-	7	4
West Virginia	-	-	-	-	-	-	-	-	2	1	6
North Carolina	-	-	-	-	-	-	-	-	-	3	22
South Carolina	-	-	-	-	-	-	-	-	-	2	1
Georgia	-	-	-	-	2	-	-	2	-	2	17
Florida	-	-	-	-	-	-	-	-	3	4	6
EAST SOUTH CENTRAL											
Paralytic	-	-	-	2	1	-	-	3	5	5	24
Total	-	-	-	2	1	-	-	3	5	31	28
Kentucky	-	-	-	1	-	-	-	1	-	25	9
Tennessee	-	-	-	-	-	-	-	-	-	3	7
Alabama	-	-	-	-	1	-	-	1	2	1	2
Mississippi	-	-	-	1	-	-	-	1	3	2	10
WEST SOUTH CENTRAL											
Paralytic	2	-	3	2	2	-	2	9	10	11	18
Total	2	-	4	3	3	-	2	12	12	15	24
Arkansas	-	-	-	-	-	-	-	-	2	6	5
Louisiana	2	-	2	2	3	-	2	9	2	5	7
Oklahoma	-	-	1	-	-	-	-	1	-	-	6
Texas	-	-	1	1	-	-	-	2	8	4	6
MOUNTAIN											
Paralytic	-	-	-	-	-	-	-	-	6	4	9
Total	-	-	-	-	-	-	-	-	17	11	12
Montana	-	-	-	-	-	-	-	-	2	2	5
Idaho	-	-	-	-	-	-	-	-	1	2	-
Wyoming	-	-	-	-	-	-	-	-	1	1	-
Colorado	-	-	-	-	-	-	-	-	1	-	-
New Mexico	-	-	-	-	-	-	-	-	10	-	1
Arizona	-	-	-	-	-	-	-	-	1	1	6
Utah	-	-	-	-	-	-	-	-	-	5	-
Nevada	-	-	-	-	-	-	-	-	1	-	-
PACIFIC											
Paralytic	2	2	-	2	2	1	1	8	7	16	74
Total	2	4	-	2	2	1	1	10	12	25	86
Washington	-	-	-	-	-	-	-	-	1	10	17
Oregon	-	-	-	-	-	-	-	-	-	2	21
California	2	4	-	2	2	1	1	10	10	13	46
Alaska	-	-	-	-	-	-	-	-	-	-	1
Hawaii	-	-	-	-	-	-	-	-	1	-	1
TERRITORY											
Puerto Rico	-	-	-	1	-	-	-	1	-	2	7

Table 1 (Continued)

State	1961	12/8	12/15	12/22	12/29	1/5	1/12	1/19	1/26	2/2	2/9	2/16	2/23	2/29	3/6	3/13	3/20	3/27	4/3	4/10	4/17	4/24	4/30	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	9/3	9/10	9/17	9/24	10/1	10/8	10/15	10/22	10/29	11/5	11/12	11/19	11/26	12/3	12/10	12/17	12/24	12/31	Total	Week	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2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SUPPLEMENT TO

Poliomyelitis Surveillance Report No. 274

January 22, 1963

INDEX TO 1962
POLIOMYELITIS SURVEILLANCE REPORTS
(NOS. 249 - 273)

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