

Type I Led.

MAR 18 1959

Rectal Swabs.

Material used

Tubes. 4-370 of 3/12/59 as attached sheet.

Procedure. 0.4 ml of fluid inoculated into each of 3 tubes.

<u>Date of Rectal Swab</u>	<u>Tubes</u>	<u>3/20</u>	<u>3/21</u>	<u>3/23</u>	<u>3/24</u>	<u>3/25</u>	<u>3/26</u>	
	A.	<u>2</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	
2/18/59	169	0	0	4 off.	} Pooled saved.	}		Coxsackia B2.
One	170	0	?	4 off.				
	171	0	1-2	4 off.				
3/12/59	172	2-4 off.	} Pooled Saved of F4					
2 days	173	4 off.						
	174	4 off.						
2/14/59	175	0-2.	2-3	4 off.	} Pooled saved.	}		
4 days	176	0-1	2-3	4 off.				
	177	0-1	2-3.	4 off.				
2/16/59	178	4 off.	} Pooled Saved of F4.					
6 days	179	3-4 off.						
	180	3-4 off.						
2/19/59	181	0	1-3	4 off.	} Pooled saved.	}		
9 days	182	0-1	2-4 off.					
	183	0-1	2-4 off.					
2/23/59	184	?	0	0	0	0	0	
13 days	185	?	0	0	0	0	0	
	186	0	?	0	0	0	0	
3/3/59	187	0	?	0	0	0	0	
21 days.	188	0	?	0	0	0	0	
	189	0	0	0	0	0	0	

3/20. tubes in drum found stopped.

MAR 18 1959

Chromat Swabs.MaterialTubes 1310 of 3/12/59 as overleafProcedure 0.4ml inoculated into each of 3 tubes.

<u>Date of Tissue Swab</u>	<u>Tubes</u>	3/20	3/21	3/23	3/24	3/25	3/26
	A.	<u>2</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
2/10/59 He	#89 190	1	?	0	0	0	0
	#70 191	?	0	0	0	0	0
	#77 192	0	0	0	0	0	0
2/12/59 2 days	#70 193	1-2	4 off mid small patches.	}	Pooled Saved.		
	#73 194	1-2	4 off " " "				
	#74 195	0	1-2 4 off.				
2/14/59 4 days	#75 196	1-2	2-3	4 off	}	Pooled saved.	h
	#76 197	0-1	2-3	4 off			
	#77 198	1-2	2-3	4 off.			
2/16/59 6 days	#78 199	1-2	3-4 off.	}	Pooled Saved.		h
	#79 200	0-1	3-4 off.				
	#80 201	4 off	1-3 4 off.				
2/19/59 9 days	#81 202	0	0	3-4 off.			
	#82 203	0	0	0			
	#83 204	?	0	0			
2/23/59 13 days.	#84 205	0	0	0	0	0	0
	#85 206	0	0	0	0	0	0
	#86 207	0	0	0	0	0	0
3/3/59 21 days.	208	0	0	0	0	0	0
	209	0	0	0	0	0	0
	210	0	0	0	0	0	0

Type I Group.

APR 7 1959

Pharyngeal Swabs of 2/12/59; 2/14/59; 2/16/59  
 + MRP, of Rectal Swab of 2/10/59 PRE

To titrate and identify the virus in the above swabs

Material Original Swab fluid of the Pharyngeal swabs.  
 Polio I antiserum K18+19 of 11/3/58 1:20.

tubes T375 of 3/21/59 Medium added 4/4/59 and changed before use  
 to 0.5% lactalt hydr in Earles sol<sup>n</sup> no serum.

	A	4/9	4/10	4/11	4/13	4/15	
Pharyngeal Swab fluid + Type I serum.	56	2	3	4	6	8	Secret. Not Polio I
2/12/59 = $10^{0.3}$	57	0	few	2-3	4 off		
	58	0	few	2-3	4 off		
+ diluent = $10^{0.3}$	59	0	0	0-1	3-4 off		
	60	0	few	0-1	4 off.		
$10^{-1}$	61		0	0-1	4 off		$10^{-2}$ / 0.2 ml
	62		0	0-1	4 off		
$10^{-2}$	63			0	0	0	$10^{-2.7}$ / ml
	64			few	2-3	4 off.	
$10^{-3}$	65			0	0	0	
	66			0	0	0	

Pharyngeal Swab fluid + Type I serum.	67	0	0-1	2-3	4 off		Secret Not Polio I
2/14/59 = $10^{0.3}$	68	0	0-1	2-3	4 off		
	69	0	0-1	2-3	4 off		
+ diluent = $10^{0.3}$	70	0	0-1	2-3	4 off		
	71	0	0-1	2-3	4 off		
" $10^{1.0}$	72		0	0-1	4 off		$10^{1.5}$ / 0.2 ml
	73		0	0-1	4 off		
" $10^{2.0}$	74			0	0	0	$10^{2.2}$ / ml
	75			0	0	0	
" $10^{3.0}$	76			0	0	0	
	77			0	0	0	

+ overleaf.

5

		tubes	4/9	4/10	4/11	4/13	4/15		
Pharyngeal Swab fluid 2/16/59	+ type I serum	A	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>	<u>8</u>	Not listed	
	$10^{0.3}$	78	0	few	0-1	3-4 off			
		79	0	few	0-1	4 off			
		80	0	few	0-1	3-4 off			
	+ diluent	$10^{0.3}$	81	0	few	0-1	4 off		
		82	0	0	0-1	3-4 off			
		$10^{-1}$	83		0	few	2-4 off		
			84		0	few	2-3		4 off
		$10^{-2}$	85			0	0		0
			86			0	few		2-4 off
	$10^{-3}$	87			0	0	0		
		88			0	0	0		

$10^{2.7}$  / ml.  
 $10^{2.7}$  / ml.

Culture fluid of the Rectal Swab of 2/10/59.

Materials HKP, of R.S of 2/10/59. (tubes 169-71) of 3/23/59

Serum Polio I + II + III pooled. I as above  
 II R 43 + 44 of 11/3/55 1:10  
 III R 63 + 64 of 11/20/56 1:10

tubes as above

		A.	4/9	4/10	4/11	4/13	4/15	
<u>Mixture</u>		A.	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>	<u>8</u>	
	$10^{-4}$ + equal vol Polio I, II + III	89	0	few	1-2	4 off	seed field	
	serum.	90	0	few	0-1	3-4 off		
		91	0	few.	0-1	4 off		
	+ diluent	$10^{-4.3}$	92	0	0	0-1	4 off	
		93	0	few	1-2	4 off		
		$10^{-5.3}$	94			0	1-2	4 off.
			95			few	4 off	
		$10^{-6.3}$	96			0	0	0
			97			0	0	0
	$10^{-7.3}$	98				0	2-4 off	
		99				0	0	

Not Polio

$10^{6.7}$  / 0.2 ml.

Type I Group.

APR 13 1959

Rectal Swabs of 2/12/59, 2/14/59, 2/16/59 + 2/19/59

Material Original fluid of the above swabs.

Serum Polio I antiserum R18 + 19 1:20.

tubes 1377 of 4/7/59

<u>R.S of 2/12/59</u>		4/15	4/16	4/17	4/18	4/20	4/22
	D	2	3	4	5	7	9
Fluid + equal vol Polio I	47	few	2-3	4 off.			
Serum	48	0	0-2	4 off.			Not Polio I
	49	0	2-3	4 off.			
+ equal vol diluent	50	few	2-3	4 off.			
	51	0	2-3	4 off.			
	52	Cult. very alk. disintegrating. Clipped. discarded					
$10^{-1}$	53		0-1	2-4 off.			
	54		0-1	2-4 off.			
	<del>55</del>						
$10^{-2}$	55		0	1-2	3-4 off.		$10^{3.5} / 0.2 \text{ ml}$
	56		0	1-2	2-4 off.		$10^{4.2} / \text{ml}$
	<del>57</del>						
$10^{-3}$	57		0	0-1	2-4 off.		
	58		0	0	few	4 off.	
$10^{-4}$	59			0	0	0	0
	60			0	0	0	0

R.S of 2/14/59

Fluid + equal vol Polio I	61	0	0	2-3	4 off.		
Serum	62	0	few	2-3	4 off.		Not Polio I
	63	0	0	2-3	4 off.		
+ equal vol diluent	64	0	0	2-3	4 off.		
	65	0	few	2-3	4 off.		$10^{2.0} / 0.2 \text{ ml}$
	66	0	few	2-3	4 off.		$10^{2.7} / \text{ml}$
$10^{-1}$	67			few vac	2-4 off.		
	68			2-3	4 off.		
$10^{-2}$	69			0	0	0	0
	70			0	0	2-3	4 off.
$10^{-3}$	71			0	0	0	0
	72			0	0	0	0

RS of 2/16/59

		4/15 2	4/16 3	4/17 4	4/18 5	4/20 I	4/21 9	
Fluid + equal vol Polio I serum.	73	0	1-2	40//				Not Polio I
	74	0	few	2-40//				
	75	0	0-2-3	40//				
+ equal vol diluent	76	0	2-3	40//				
	77	0	1-2	40//				
	78	0	2-3	40//				
$10^{-1}$	79		few	2-40//				$10^{3.5}/0.2 \text{ ml}$
	80		few	2-40//				
$10^{-2}$	81		0	0-1	2-3	40//		$10^{4.2}/\text{ml}$
	82		0	0	few	40//		
$10^{-3}$	83			0	0	2-40//		
	84			0	0	0	0	
$10^{-4}$	85			0	0	0	0	
	86			0	0	0	0	

RS of 2/19/59

		4/15 2	4/16 3	4/17 4	4/18 5	4/20 I	4/21 9	
Fluid + equal vol Polio I serum.	87	0	0	2-3	40//			Not Polio I
	88	0	0	2-3	40//			
	89	0	few	2-40//				
+ equal vol diluent	90	0	0-1	40//				
	91	0	0-1	40//				
	92	0	0	2-3	40//			
$10^{-1}$	93		0	1-3	2-40//			$10^{2.5}/0.2 \text{ ml}$
	94		0	2-3	40//			
$10^{-2}$	95			0	0-2	40//		$10^{3.2}/\text{ml}$
	96			0	0	0		
$10^{-3}$	97			0	0	0		
	98			0	0	0		

MAY 4 1959

To identify the virus in the Pre Rectal Swab

Virus

M.K.P. of 3/23/59 (tubes A.169-171) of the Pre Rectal Swab of 2/10/59  
 titre  $\times 10^{5.8}$  / 0.2ml. Used at  $10^{-4}$

Sera

Echo + Coxsackie pools + single sera as listed  
 See list at front of book for details of sera.

tubes

Virus

Serum

	A.	5/8	5/9
$10^{-4}$ +	E1.	49	4/ 5/ 40//
		50	1-3 40//
20 TC7 <sub>50</sub>		51	40//
	E2.	52	40//
		53	40//
		54	40//
	E3	55	2-40//
		56	2-40//
		57	1-3 40//
	E4	58	40//
		59	2-40//
		60	2-40//
	E5	61	2-40//
		62	1-3. 40//
		63	2-40//
	Echo 4	64	1-3 40//
		65	1-3 40//
		66	2-40//
	Echo 17	67	40//
		68	40//
		69	1-3 40//
	Echo 20	70	40//
		71	1-3 40//
		72	40//
	Echo 21	73	40//
		74	1-3 40//
		75	2-40//

Viruses	Seam	Tubes	5/8	5/9	5/11	5/12		
		A	<u>4</u>	<u>5</u>	<u>7</u>	<u>8</u>		
$10^{-4}$	Cox 1	76	1-3	40ll				
		77	40ll					
		78	1-3	40ll				
	Cox 2	79	0	0	0	0		Cox sackie A9 B1 or B2.
		80	0	0	0	0		
		81	0	0	0	0		
	Cox 3	82	1-3					
		83	1-3					
		84	2-40ll					
	$10^{-4}$ + equal vol diluent	$10^{-4.3}$	85	2-40ll				
			86	1-3	40ll.			
			87	2-40ll				
$10^{-5.3}$		88	0	0	0	0		
		89	1-2	2-40ll				
		90	1-3	2-40ll				$10^{5.6}/0.2ml$
$10^{-6.3}$		91	0	0	0	0		
		92	0	0	0	0		
		93	0	0	0	0		
$10^{-7.3}$		94	0	0	0	0	0	
		95	0	0	0	0	0	
		96	0	0	0	0	0	

5/6. } tubes 85-87 negative. other tubes not read  
2 days.

5/7. 3 days tubes 85-87 negative other tubes not read

MAY 11 1959

To identify the virus in the PRE Rectal Swab.

Virus MKP, of 3/23/59 (tubes A169-171) of the Pre Rectal Swab of 2/10/59  
 titre  $10^{5.6}/0.2\text{ml}$   
 diluted  $10^{-3.3}$  estimated 200 TCID<sub>50</sub>/0.2ml.

Sera Coxsackie A9, B1, + B2. as used in the Cox 2 Pool.

Chubes T381 of 5/5/59

<u>Virus</u>	<u>Serum</u>	<u>Tubes</u>	5/14	5/16	5/18	5/19
			3	5	7	8
$10^{-3.3}$ +	Cox A9	38	1-2	40/1		
		39	1-2	40/1		
		40	1-2	40/1		
	+ Cox B1	41	2-3	40/1		
		42	2-3	40/1		
		43	0-1	40/1.		
	+ Cox B2	44	0	0	0	0
		45	0	0	0	0
		46	0	0	0	0
	+ diluent	47	1-2	40/1		
		48	1-2	40/1		
		49	1-2	40/1.		

5/13 2 days Control negative

MAY 26 1959

To find if any Polio I was present in the Rectal Swabs of 2/12, 2/14, 2/16 or 2/19/59.

Coxsackie B2 was identified in the Pre Rectal Swab of 2/10/59

Polio I serum did not delay the virus in the Swab fluids of 2/12, 2/14, 2/16 and 2/19/59

Therefore there cannot be much Polio I present.

Decided to check the MKP, of the above Swabs to try to detect any trace of Polio I.

tubes 1384 of 5/19/59.

		5/28	5/29	5/30	5/31	6/1	6/2	6/3
	tubes	2	3	4	5	6	7	8
<u>RS of 2/12/59 MKP.</u>								
$10^{-4}$ + Cox. B2	A	*	*					
	61	0	0	0	0	0	0	0
	62	0	0	0	0	0	0	0
	63	0	0	0	0	0	0	0
+ Polio I	64	0	1-2	2-3	40%			
	65	few	2-3	40%				
	66	few	2-3.	40%				
+ Cox B2	67	0	0	0	0	0	0	0
+ Polio I	68	0	0	0	0	0	0	0
	69	0	0	0	0	0	0	0
+ diluent	70	few	1-3	40%				
	71	0	few	1-3	40%			
	72.	few	6-2	40%				

RS of 2/14/59 MKP.

$10^{-4}$ + Cox. B2.	73	0	0	0	0	0	0	0
	74	0	0	0	0	0	0	0
	75	0	0	0	0	0	0	0
+ Polio I	76	0	0-2	2-3	40%			
	77	0	0-1	2-3	40%			
	78	few	1-3	40%				
+ Cox B2	79	0	0	0	0	0	0	0
+ Polio I	80	0	0	0	0	0	0	0
	81	0	0	0	0	0	0	0
+ diluent	82	few.	1-3	40%				
	83	0	1-3	40%				
	84	0	1-3	40%				

	tubes	5/28	5/29	5/30	5/31	6/1	6/2	6/3
<u>RS7 2/16/59 MKP<sub>1</sub></u>	A	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
10 <sup>-4</sup> + Cox B <sub>2</sub>	85	0	0	0	0	0	0	0
	86	0	0	0	0	0	0	0
	87	0	0	0	0	0	0	0
+ Polio T	88	0	0-2	1-3	4 off			
	89	0	2-3	4 off				
	90	0	0-1	1-3	4 off			
+ Cox B <sub>2</sub>	91	0	0	0	0	0	0	0
+ Polio T	92	0	0	0	0	0	0	0
	93	0	0	0	0	0	0	0
+ diluent	94	0	few	1-3	4 off			
	95	0	few	1-3	4 off			
	96	0	1-3	4 off				

RS7 2/19/59 MKP<sub>1</sub>

10 <sup>-4</sup> + Cox B <sub>2</sub>	97	0	0	0	0	0	0	0
	98	0	0	0	0	0	0	0
	99	0	0	0	0	0	0	0
+ Polio T	100	few	2-3	4 off				
	101	few	2-3	4 off				
	102	few	2-3	4 off				
+ Polio T	103	0	0	0	0	0	0	0
+ Cox B <sub>2</sub>	104	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0
+ diluent	106	few	2-4 off					
	107	few	2-3	4 off				
	108	few	1-3	4 off				

2/28 2 days

To find if any Polio I was in the Pharyngeal Swabs.

The "carried" virus has been identified as Coxsackie B2.

Virus used MKP, of Pharyn. Swab of 2/12 2/14, 2/16 & 2/19  
in every case diluted to  $10^{-4}$ .

Serials Polio I, Coxsackie B2, alone & together.

Tubes 1386 of 6/2/59.

Pharyngeal Swab of 2/12/59

$10^{-4}$  + equal vol. Coxsackie B2

	C	6/11	6/15	6/15'	6/16
		3	5	7	8
	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Polio I					
	4	0	4 off		
	5	0	2-4 off		
	6	few	4 off		
Coxs. B2 +					
	7	0	0	0	0
Polio I					
	8	0	0	0	0
	9	0	0	0	0
Tribuent					
	10	few	4 off		
	11	few	4 off		
	12	few	4 off		

Pharyngeal Swab of 2/14/59

$10^{-4}$  + equal vol Cox. B2.

	13	0	0	0	0
	14	0	0	0	0
	15	0	0	0	0
+ Polio I					
	16	0	4 off		
	17	0	4 off		
	18	0	4 off		
Cox B2 +					
	19	0	0	0	0
Polio I					
	20	0	0	0	0
	21	0	0	0	0
Tribuent					
	22	0	4 off		
	23	0	4 off		
	24	0	4 off		

Pharyngeal Swab of 2/16/59	C	6/11 3	6/13 5	6/15 7	6/16 8
$10^{-4}$ + equal vol Cox B2	25	0	0	0	0
	26	0	0	0	0
	27	0	0	0	0
Polio I	28	0	40%		
	29	0	40%		
	30	0	40%		
Cox B2 +	31	0	0	0	0
Polio I	32	0	0	0	0
	33	0	0	0	0
Tribuent	34	0	40%		
	35	0	40%		
	36	0	40%		

Pharyngeal Swab of 2/19/59

$10^{-4}$ + equal vol Cox B2	37	0	0	0	0
	38	0	0	0	0
	39	0	0	0	0
Polio I	40	0	40%		
	41	0	40%		
	42	0	40%		
Cox B2	43	0	0	0	0
+ Polio I	44	0	0	0	0
	45	0	0	0	0
+ Tribuent	46	0	40%		
	47	0	40%		
	48	0	40%		

6/10 2 days. Controls negative.