

MOUSE

INOC.

Summer Sore Throat (1947) Study.

AUG 24 1948

Mouse Virulence Tests - Using Monkey CNS Material

Derived From Inoculation of Patients' Excreta ^{Stools.} _{Throat Swabs.}

Inoculation of throat swab extracts and of stools from the following patients produced the following in Rhesus monkeys: -

[REDACTED] Rh. 1666 - Paralysis.

[REDACTED] Rh. 1547 - Death (Bulbar Poli)

[REDACTED] Rh. 36 - Paralysis.
[REDACTED] Rh. 37 - Paralysis.

Inocula For Mice: 1) [REDACTED] 20% (saline) suspension of the cord and medulla of Rh. 1666 frozen on 2-5-48.

2) [REDACTED] - 20% (saline) suspension of the medulla of Rh. 1547, frozen on 3-15-48.

3) [REDACTED] - 20% (saline) suspension of the pooled cords and medullae of Rh. 36 and Rh. 37, frozen on 12-31-47.

Mice Used: 10-12 Gms, albino (Maxfield)

Amount Inoculated 0.03 cc I.C. per mouse.

Records of individual mice overleaf.

Mouse-Virulence Test of "HOFERKAMP"

Sub-Passage #1.

SEP 1 1948

Material: On Aug. 24, 1948, 10 Maxfield mice (10-12 gms) were inoculated IC with 20% cord-medulla suspension of Ph. 36 and 37 in whom poli'o virus was isolated primarily from stool and throat swab of [redacted]

Today (9/1/48) - two of these mice were found dead; - brains soft but no bacteria on Gram smear; viscera grossly normal. -

These 2 mouse brains, ^{soft} pooled and ground in mortar with abrasive, in 6.0 cc of saline to make a 10% suspension. (Combined weights of 2 brains = 0.60g. - Centrifuged at ± 2000 rpm. for 5 minutes; 0.2" cultured on B.A.P. = $\bar{X} \pm 100$ colonies - small white non-hemolytic = Gram neg. rods.

Remainder of inoculum frozen. (C-2)

Mice used: - 1) Maxfield mice (10-12) gms.
2) Maxfield mice (average 28.7 gms).

Inoculum: - 0.03 cc IC per mouse.

SEP 1 1948

A. MICE (10-12 gms)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	-	D	9-3-48	-	Brain = no bacteria on Gram smear.																									
2	-	E	9-3-48	-	K. E. CHCl ₃ - " " " " " "																									
3	-	-	-	-	D discarded.																									
4	-	-	-	-	E D																									
5	-	-	-	-	E D																									
6	-	-	-	-	E D																									
7	-	-	-	-	D																									
8	-	-	-	-	E D																									
9	-	-	-	-	E D																									
10	-	-	-	-	E D.																									

B. MICE (average 28.7 gms.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	1	E	E	9/3-48	K. E. CHCl ₃ ; brains show no bacteria on Gram smear.																									
	2	E	E	9-3-48	N.B. (A-3) reviewed slide on A-3; numerous Gram neg. rods found both within polys as well as extracellular. - when I reviewed A1, A2, and B1 below I could find Gram neg. rods. - Numerous polys throughout the smear																									
Box	3	-	-	E	9/3-48																									
"A"	4	-	-	-	D																									
	5	-	-	-	E D																									
	6	E	E	9/3-48	K. E. CHCl ₃ - brains no bacteria on Gram smear; many polys. - Slide A-3 above examined by																									
Box	7	E	E	A-3	who found numerous Gram neg. rods. -																									
"B"	8	-	-	-	E D																									
	9	-	-	-	E D																									
	10	-	-	-	E D																									

E. - such mice had marked eye signs; fur ruffled; sit hunched up; no weakness; no spontaneous convulsions and none induced by spinning.

Mouse Inoculation of CSF from Special Patients Under Observation
in Ward 3 West - 1947 - Children's Hospital, Cincinnati.

I
SEP 3 1947

Material: CSF taken at 12.30 p.m. from Carol Ann Smith, Chart # 58571, and containing 32 cells/cu. mm. (65% polys; 35% lymphs) was directly inoculated.

Mice used: 5 C.H. albino (Swiss) mice; aged 13-14 days.

Inoculum: 0.02 c.c. IC and 0.75 c.c. IP

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	- D9/5. - kept in refrigerator until 9/6. - Wright's contact smear - many rods. Discarded. D9/30. Sm. smear brain - no bacteria. Gross autopsy neg. <u>IC</u> : many colonies; <u>IC</u> smears neg. Discarded.																																												

(Cont'd)

	41	42	43	44	45	46	47	48	49	50
1	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-

} 10/25/47. Discontinue observation; discard mice.