

NICE
PLNS
Mould
VII

PLASMOCID EXPERIMENT VIII IN MICE

1-27-49

PURPOSE

To determine by restriction the effect of Plasmocid on pathogenicity of Lansing Virus in mice, virus given in diet.

VARIATION FROM PREVIOUS TEST

a) To use different dilutions of virus.

Previous test with Plasmocid in diet (Exp. I, II, V): Virus Lansing, Pool III of 7-6-48, 1/50 in saline, @ 50 PD50
At the present experiment: the same virus (same pool) will be challenged in the following different dilutions:
 10^{-2} =
 10^{-3} =
 10^{-4} =

b) To use only female mice

c) To give control mice's diet in the same way: powder-pellets in the same kind of dishes used for the treated animals. - Started: inoculation day: February 3 - 1949.)

MICE - Maxfield albino, @ 20 GM at STARTING.

GROUPS

BOXES

I. 30 mice: Virus 10^{-2} + DRUG	A + B + C
II. 30 mice: Virus 10^{-3} + DRUG	D + E + F
III. 30 mice: Virus 10^{-4} + DRUG	G + H + I
IV. 30 mice: DRUG ONLY	J + K + L
V. 30 mice: Virus 10^{-2} - NO DRUG	M + N + O
VI. 30 mice: Virus 10^{-3} - NO DRUG	P + Q + R
VII. 30 mice: Virus 10^{-4} - NO DRUG	S + T + U

DRUG

PLASMOCID (S.N. 3115) 250 mg. BASE in 1000 GM DIET (powdered pellets) Drug started 7 days before inoculation. - Inoculation day: BASE @ 37.5 mg/kg

VIRUS

Virus, Pool III of 7-6-48.
0.03 cc. intraperitoneally - See above.

DRUG STARTED: January 27 - 1949 AM.

Inoculation: February 3 - 1949.

(*) 250 mg base / 1000 GM diet = 25 mg BASE / DAY / MOUSE = 37.5 mg BASE / kg MOUSE A DAY

Note: Feb 18th: Specimen to use the drug
designed by Dr Eldersfield
52.8% Base

(473.4 mg. DRUG in 1000 GM suit)

↓
250 mg. BASE.

MARCH: 22 23 24 25

Box C - MN: -
96.6

GROUP $\bar{V}$ - 30 mice: $\overline{VIRUS} 10^{-2}$ - NO DRUG -

↓ 4

BN

M

Weight

GN

$$N$$

Weight

Brx

0

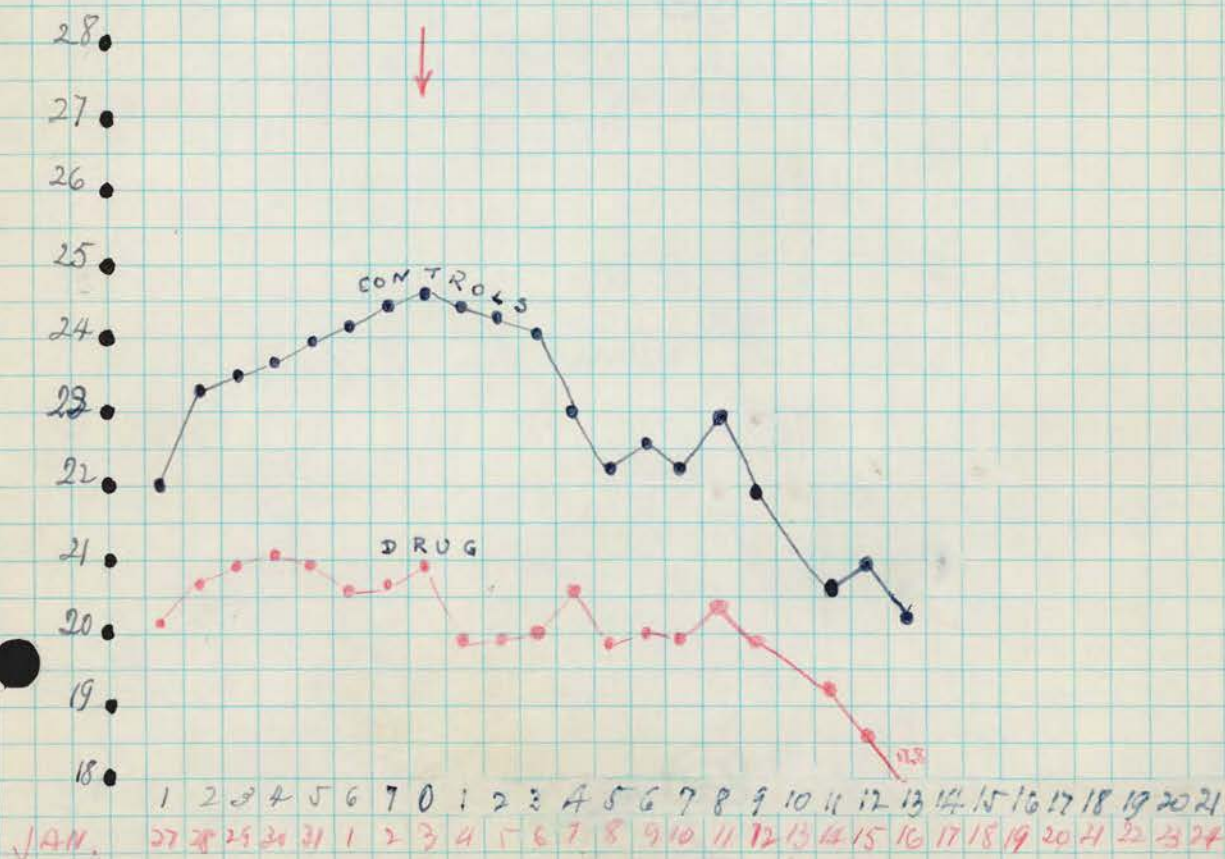
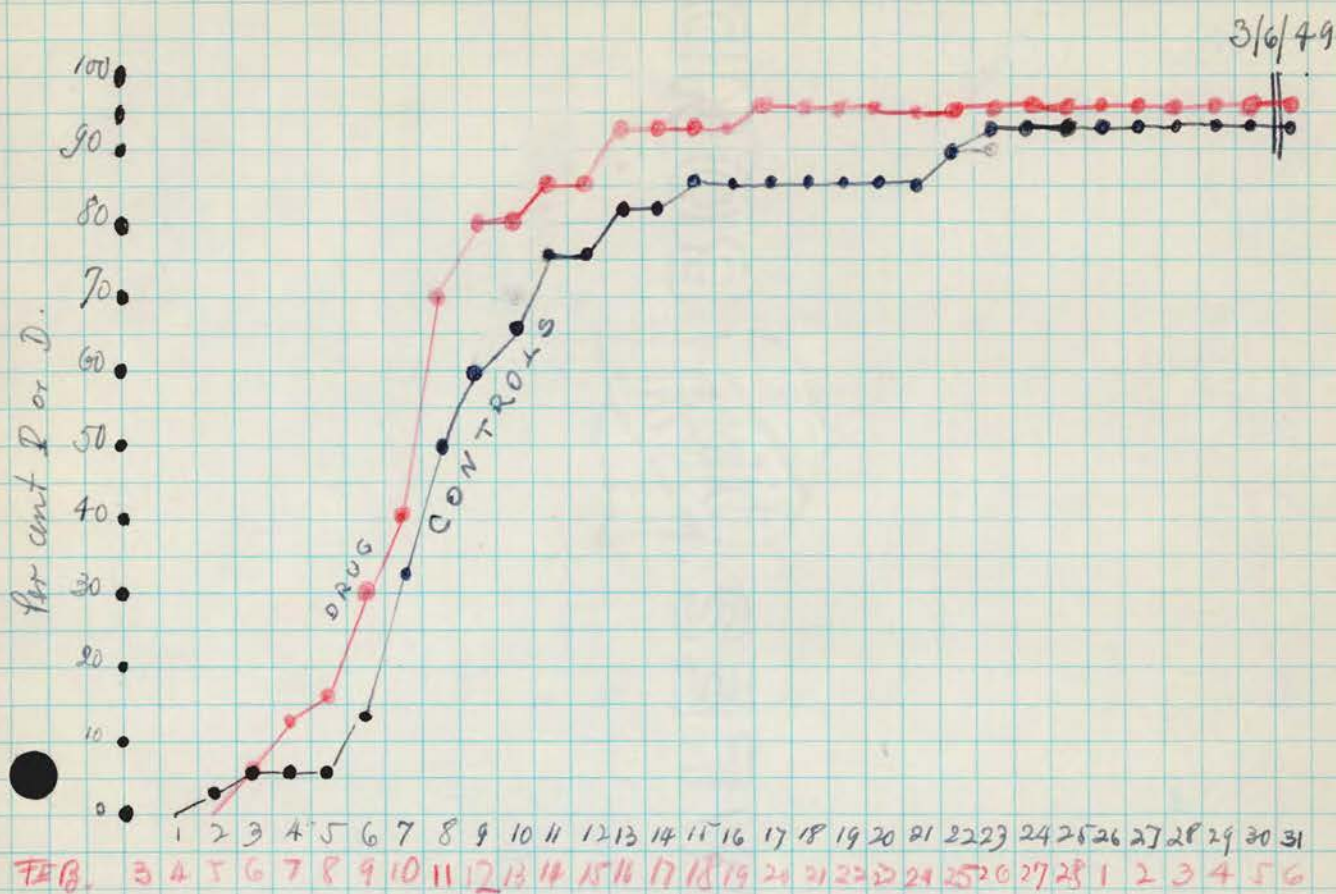
Wacht

2. Frontal lobe

Ammonia

P+D:

Per cent:



↓

250mg / 1000 GM diet

Gen

D

Weight: 207 206 207 209 211 214 217 217 208 209 207 207 204 206 206 211 130 134 84 46 42 39 38 38 39 40 40 41

But

五

Weight 205 208 206 208 211 214 215 217 186 189 192 191 160 160 157 141 138 98 82 65 40 39 39 38 37 38 36 20

 Br_2/N

五

Weight 220 226 228 228 227 227 225 230 217 216 217 211 211 214 196 180 175 136 136 135 100 99 64 66 65 66 67 68

29 29 29 29 29 29 27

143 129

20.4 2M

P + Dead: $\frac{0}{30}$ $\frac{0}{30}$ $\frac{0}{30}$ $\frac{0}{30}$ $\frac{0}{30}$ $\frac{0}{30}$ $\frac{0}{30}$ $\frac{0}{30}$ $\frac{1}{30}$ $\frac{2}{30}$ $\frac{3}{30}$ $\frac{5}{30}$ $\frac{8}{30}$ $\frac{10}{30}$ $\frac{15}{30}$ $\frac{18}{30}$ $\frac{19}{30}$ $\frac{20}{30}$ $\frac{21}{30}$ $\frac{22}{30}$ $\frac{23}{30}$ $\frac{24}{30}$ $\frac{25}{30}$ $\frac{26}{30}$ $\frac{27}{30}$ $\frac{28}{30}$ $\frac{29}{30}$ $\frac{30}{30}$

[illegible]

GROUP VI: 30 mice: VIRUS 10^{-3} - NO DRUG.

GROUP VI: 30 mice: VIRUS 10^{-3} - NO DRUG.

Buy

P

Ball

Q

Box

R

Total Mt 625 666 674 680 688 692 697 704 661 685 673 645 615 632 620 626 544 463 391 273 228 261

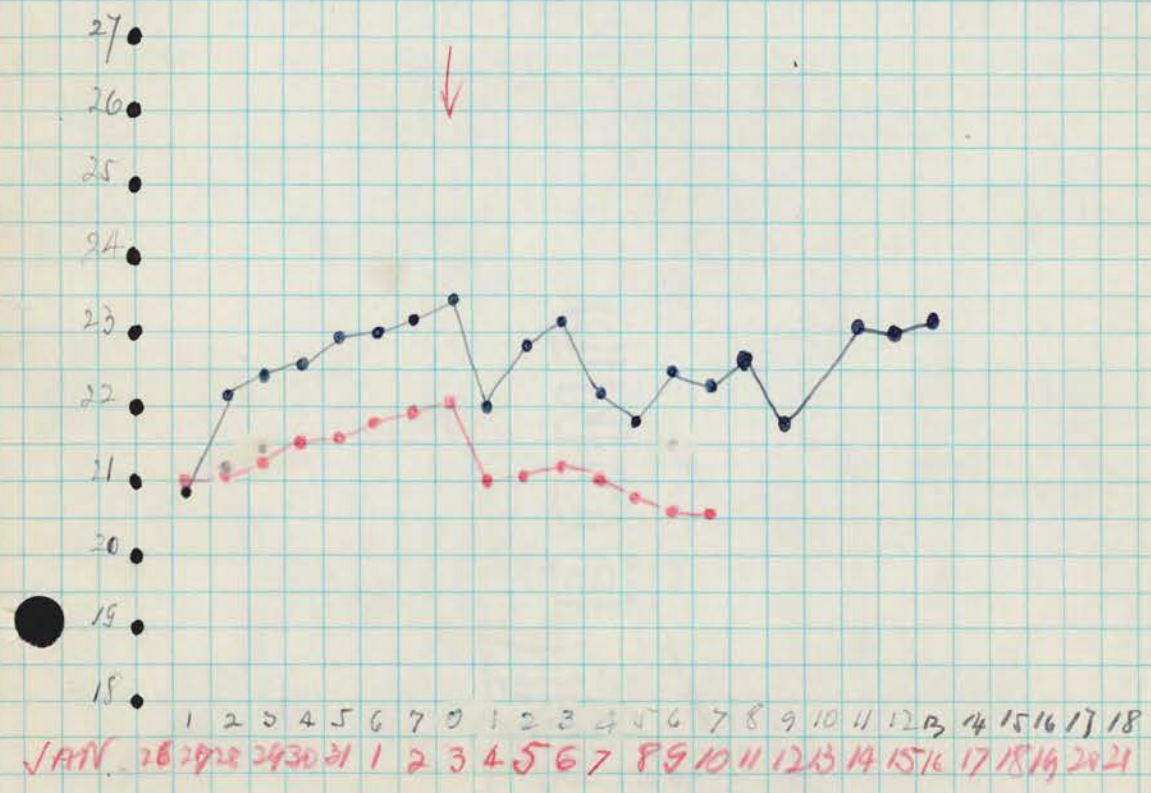
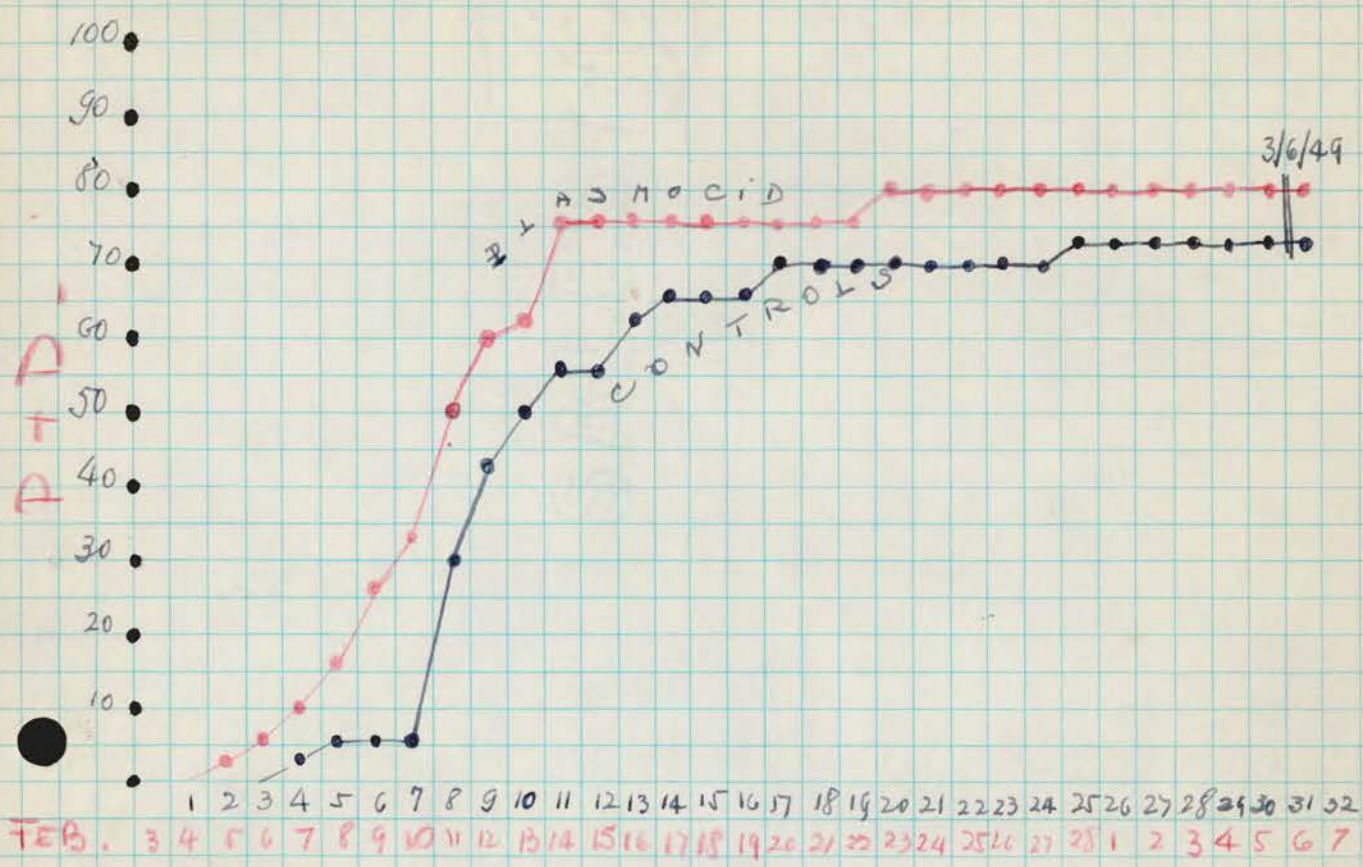
P+D.

Per cent:

[illegible]

$\emptyset \quad \emptyset \quad 33 \quad 66 \quad 86 \quad 66 \quad 30 \quad 49357556 \quad 566 \quad 63366 \quad 666 \quad 666 \quad 70 \quad 70 \quad 70 \quad 70 \quad 70 \quad 70 \quad 70 \quad 70 \quad 73 \quad 73 \quad 73 \quad 73 \quad 73 \quad 73 \quad 73 \quad 73$

PLASMODIUM IN MICE - Exp. 8th - 1-27-49 10



GROUP III - 30 mice - VIRUS: 10^{-4} + DRUG in diet.
250mg/1,000 GMS diet.

JANUARY: 07 28 29 30 31 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 1 2 3 4 5 6 M

Weight: 243 247 247 242 246 251 255 254 249 243 245 242 240 242 246 255 250 209 187 160 144 125 126 123 125 123 104 104 109

weight 242 245 248 251 250 251 251 254 221 229 235 216 218 218 220 228 232 280 145 126 105 103 105 104 103 104 104 108 104

10. 232 234 236 238 240 242 244 252 253 258 242 234 231 232 231 242 235 215 164 125 122 121 107 109 109 111 110 112 115

717 716 781 734 739 744 752 760 703 720 723 690 684 682 687 524 328

23.9	24.2	24.5	24.6	24.8	25.3	25.7	26.2	26.8	27.3	27.5
------	------	------	------	------	------	------	------	------	------	------

$P \pm D:$

[illegible]

GROUP VII 30 mice VIRUS: 10^{-4} - NO DRUG

[illegible]

1
2
3
4
5
6
7
8
9
0

no - P P P P P P D
I D +

Handwritten practice on lined paper showing the sequence of letters P, B, and D. The letters are written in a cursive style, with some corrections and repetitions indicated by red 'X' marks and multiple strokes.

1 671 674 679 683 683 680 691 663 674 681 676 668 677 698

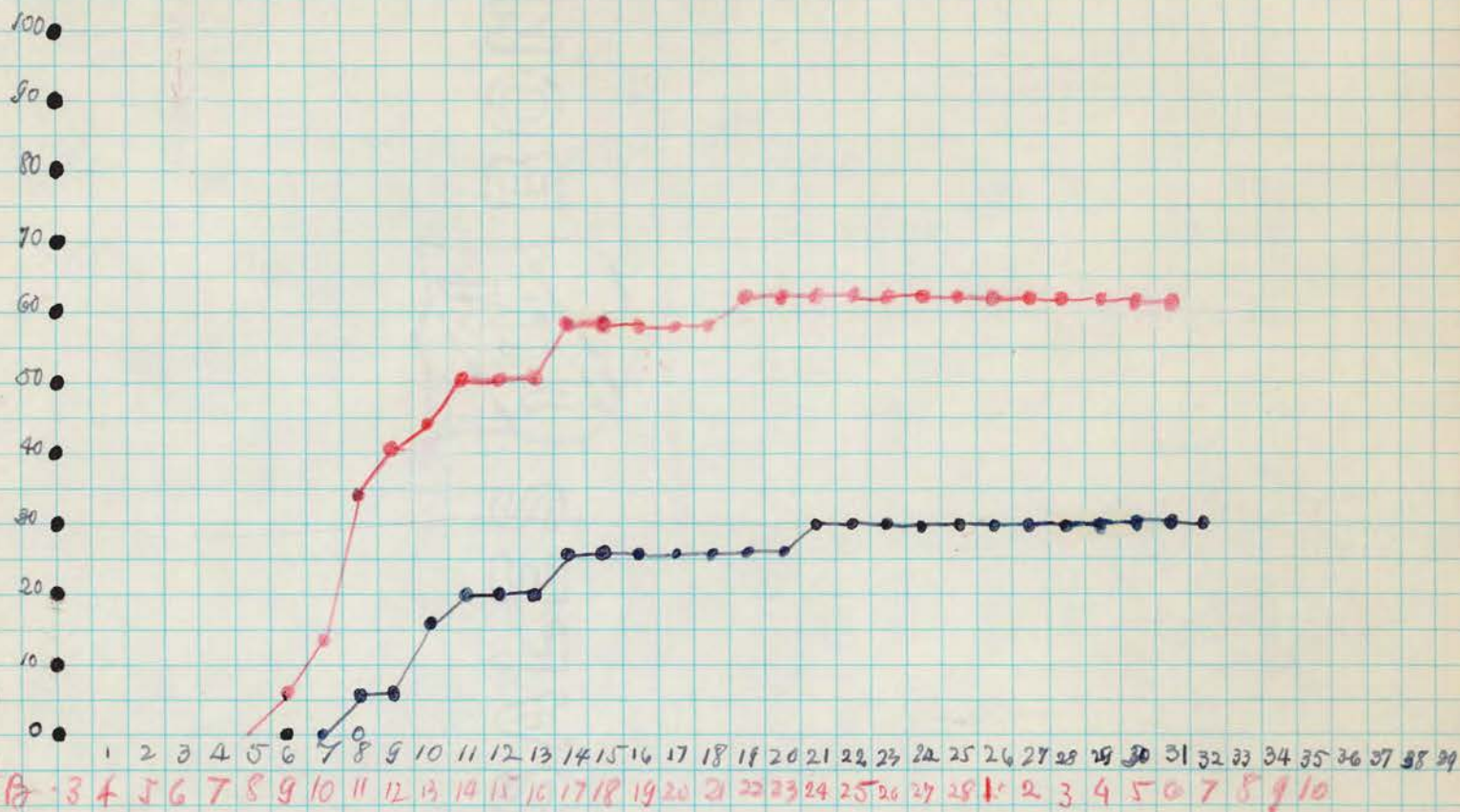
[illegible]
$$0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \rightarrow 60 \ 60 \ 60 \ 60 \ 60 \ 60 \ 60 \rightarrow 30 \ 30 \ 30 \ 30 \ 30$$

Percent: 0 0 0 0 0 0 0 0 66.6 16.6 20.20 20 26.6 26.6 26.6 26.6 26.6 26.6 30 30 30 30 30 30

FEB 17 - Red cross - These
mouse presented signs that
were interpreted wrong like
paralysis -

on FEB. 18 - Only mouse 5, Bat V
presented definite paralysis
today -

10-4



GROUP IV - 30 mice - NO VIRUS - ONLY DRUG -
250 mg/Kilo diet

Boy

J

Weight: 223 227 228 228 230 231 231 234 234 237 230 225 226 234 234 238 240 240 243 243 244 235 237 234 235 269 219 212 215 / 68 170 172

By

K

298 261 260 259 260 268 270 268 270 273 270 259 268 262 265 273 275 270 271 270 271 270 273 271 268 266 267 267 268 298 281 239

Ben

I

232 240 239 237 239 239 240 244 244 245 240 234 234 236 238 241 244. 220 221 224 224 223 226 225 224 224 226 227 230 253 255 257

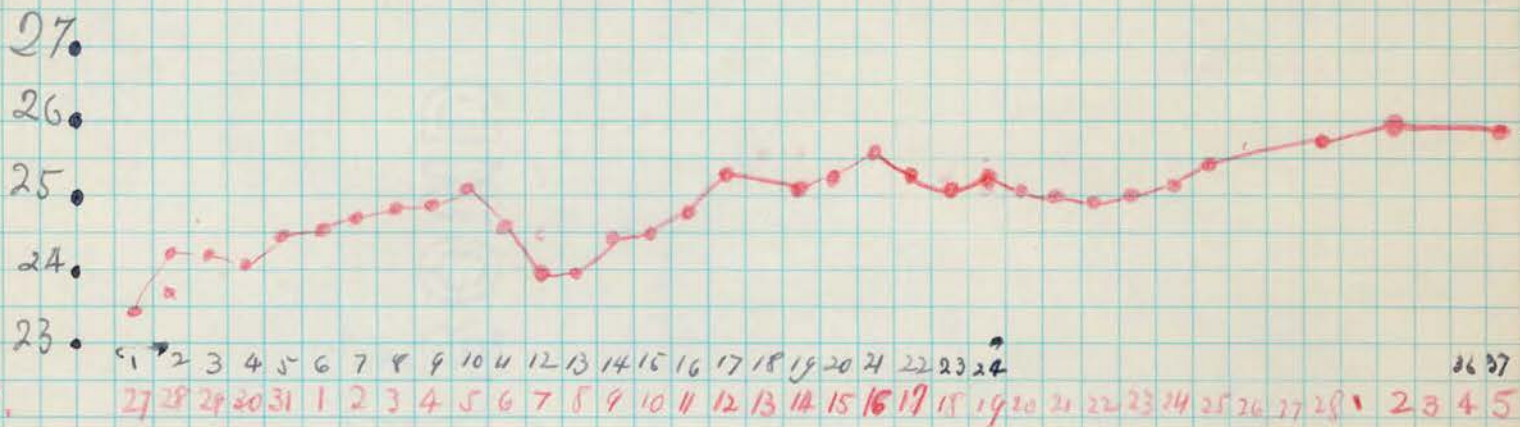
Total 703 728 727 724 734 733 741 746 746 755 740 718 718 752 737 746 759 730 735 737 718 728 736 730 727 699 702 706 713 666 676 672

Arithmetik 23.4 24.2 24.2 24.2 24.4 24.4 24.4 24.7 24.8 24.8 25.1 24.6 23.9 23.9 24.4 24.8 24.8 25.3 25.1 25.3 25.6 25.3 25.5 25.5 25.6 25.7 24.9 25.5 25.4 25.7 26 25.8

P+D:

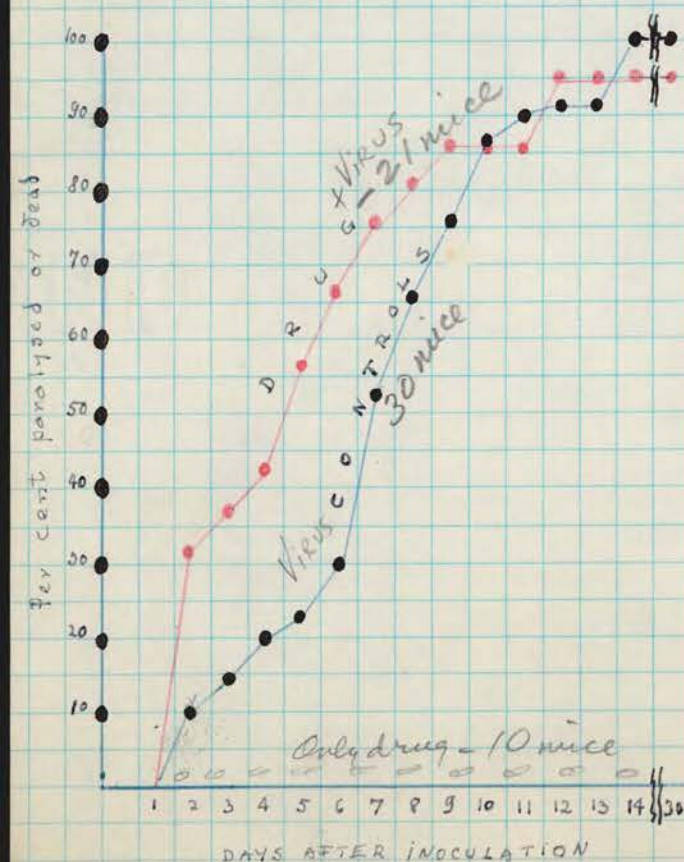
Per cent:

Plasma and Exp. VIII in White
 Group. IV Only DRUG. 1-27-49
250 mg Base in 1000 GM
DIET

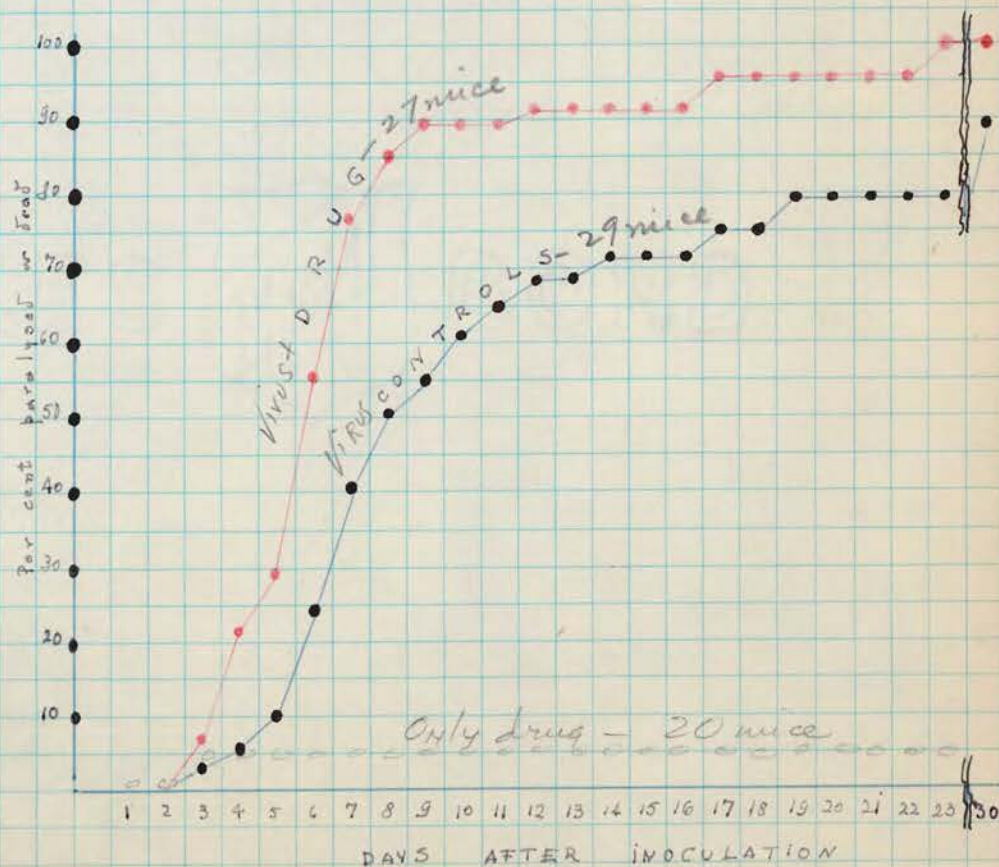


EFFECT OF PLASMOCID IN DIET OF MICE ON SUSCEPTIBILITY TO [REDACTED] VIRUS

EXPERIMENT I: 132 mg BASE/Kilo DIET
MICE 10 GM AT START.
INOCULUM: 50 PD₅₀ INTRACEREBALLY



EXPERIMENT II: 250 mg. BASE/Kilo DIET.
MICE 20 GM AT START.
INOCULUM: 50 PD₅₀ INTRACEREBALLY.



Data on Pentagaquine in Rats

obtained from L. H. Schmidt

% base in diet	Weight loss or gain in 13 days
0.025% (0.25 Gm./kilo)	57 Gm to 118 Gm
0.05% (0.5 Gm./")	57 " " 107 "
0.1% (1.0 " ")	57 " " 78 "
0.2% (2.0 " ")	57 " " 47 " (4/6 died)
Controls	57 " " 116 Gm.

On 0.1% base/kilo diet - intake =
110 mg/kilo of rat/day

" 0.05% " " = 60 mg/kilo " "

" 0.025% " " = 28.8 mg/" " "

JUL 19 1949

Effect of ISOPLASMOCID AND PENTAQUINE IN DIET OF MICE ON EXPERIMENTAL POLIOMYELITIS (LANSING) BY INTRACEREBRAL ROUTE

- Purpose
- a) to determine whether isoplasmodid, which was ineffective by parenteral inoculation in mice, may have the same effect when given by mouth (in the diet) to mice as it does in monkeys.
 - 2) to determine whether pentaquine will have the same effect in mice as it did in monkeys, i.e. the accelerating, or synergistic effect of plasmodid. Also to provide simultaneous comparison with isoplasmodid.

PLAN OF EXPERIMENT

Mice Used: 20 Gm. females from Maxfield

ISOPLASMOCID - recently synthesized by Dr. J. Koepfli
received 7-13-49
Hydriodide used = 53% base

PENTAQUINE - same as used ~~for~~ in experiment with monkeys
(obtained from Dr. Schmidt)
75.5% base

DIET - PELLETS pulverized

DRUGS mixed with diet as indicated
2 kilos of drug + diet prepared
at one time - kept in brown glass jars

ISOPLASMOCID - 2,000 mg. of drug / 1000 Gm diet
or 1,060 mg " base / 1000 " "

On basis of consumption of 36gr./mouse/day
amount of base consumed = 3.18 mg/
or $3.18 \times 50 = 159 \text{ mg base / kilo of } \frac{20 \text{ Gm}}{\text{mice}}$

Pentaquine - 1440 mg of drug / 1000 Gm diet
or 1,060 mg of base / " " "

$\therefore 159 \text{ mg / kilo mouse of pentaquine}$

Procedure - 1) Weigh mice before starting drug after at least 1 day of hydration in lab following delivery.

b) Put mice on respective diets for a period of 6 days before administration of virus

Dilution of Virus	A	B	C
	<u>ISOPLASMOCID</u>	<u>Pentagaine</u>	<u>No drug</u>
10^{-2}	50 mice	50 mice	50 mice
10^{-3}	50 "	50 "	50 "
10^{-4}	30 "	30 "	30 "
No virus	20 "	20 "	20 "

No virus controls will be kept for

- weight curves unaffected by virus
- mortality unaffected by virus

Boxes

A_1 to A_5 = isoplasmocid + virus 10^{-2}
 A_6 to A_{10} = " + " 10^{-3}
 A_{11}, A_{12}, A_{13} = " + " 10^{-4}
 $A_{14} - A_{15}$ = " no virus

B_1 to B_5 = pentagaine + virus 10^{-2}
 B_6 to B_{10} = " + " 10^{-3}
 B_{11}, B_{12}, B_{13} = " + " 10^{-4}
 $B_{14} - B_{15}$ = " + no virus.

C_1 to C_5 = no drug + virus 10^{-2}
 C_6 to C_{10} = " + virus 10^{-3}
 C_{11}, C_{12}, C_{13} = " + virus 10^{-4}
 $C_{14} - C_{15}$ = " + no virus.

DIET PREPARATION

JUL 20 1949

100# ground pellets obtained from Dr. Schmidt's Laboratory at Christ Hospital

Iso plasmo cid: 4.2 gm weighed out on torsion balance, and ground in mortar & 2 tablespoons pre-ground diet. This was added to 2000 gm diet and tumbled 3-4 minutes in shaker. Thereafter was dispensed in special feeding cups in appropriate mouse boxes.

Pentagaine: 2.94 gm. weighed, triturated and mixed c 2000 gm. pre-ground diet in above manner. Dispensed as above in appropriate mouse boxes.

JUL 21 1949

Iso plasmo cid and Pentagaine diets prepared today in above indicated fashion.

Iso plasmo cid 4.2 gm in 2000 gm pre-ground diet
Pentagaine 2.94 gm " " " "

JUL 25 1949

Iso plasmo cid and Pentagaine diets prepared today in above indicated fashion.

Iso plasmo cid 4.2 gm in 1000 gm pre-ground diet
Pentagaine 2.94 gm " " " "

JUL 29 1949

Iso plasmo cid and Pentagaine diets prepared today in above indicated fashion.

Iso plasmo cid 4.2 gm in 1000 gm pre-ground diet
Pentagaine 2.94 gm " " " "

AUG 1 1949

Iso plasmo cid diet prepared today in above indicated fashion.

Iso plasmo cid 4.2 gm in 1000 gm pre-ground diet.

AUG 3 1949

Iso plasmo cid and Pentagaine diets prepared today in above indicated fashion.

Iso plasmo cid 4.2 gm in 1000 gm pre-ground diet
Pentagaine 2.94 gm in " " " "

50th Purina mouse pellets ground today at Christ Hospital:
Two things come to light today

- 1) First batch of ground diet obtained from Dr Schmidt was in reality ground "Purina dog squares" instead of pellets. For composition of same, see below
- 2) What we thought was 100th, more nearly was 50th

Isoplasmoicid + pentagaine diets prepared today in previous fashion.

<u>Isoplasmoicid</u>	4.2 gm	in	1000 gm	preground diet
<u>Pentagaine</u>	7.94 gm	"	"	"

Observation for Consumption of Ground Diet in Sample Lot Boxes of mice.

Box	DATE (JULY)		21	22	23	24	25	26	27	28	29	30	31	Aug	1	2	3	4
A-1	133	208	244	190	248	153	119	155	110	253	112	256	232	251	230	224	251	131
A-2	133	193	213	180	233	153	169	233	179	219	181	218	206	232	183	208	229	211
A-3	249	227	229	196	244	256	228	254	218	233	184	243	216	238	211	200	225	201
A-14									217	204	167	246	171	224	164	164	228	172
A-15									196	170	160	218	188	224	174	200	227	175
B-1	226	209	226	193	224	240	219	249	207	245	201	238	232	243	218	205	239	216
B-2	231	212	218	202	229	231	207	238	199	239	192	238	220	244	217	200	232	207
B-3	240	210	231	206	231	244	211	253	234	263	234	262	242	256	243	240	255	241
B-14									219	180	172	249	241	233	217	209	235	186
B-15									253	247	219	251	248	240	218	203	235	189
C-1	243	208	243	194	241	245	196	247	237	254	219	254	215	251	215	192	249	199
C-2	254	235	256	218	257	258	237	256	238	256	206	259	232	252	210	220	261	246
C-3	250	217	247	211	255	255	215	252	203	253	215	254	235	252	213	242	260	255
C-14									255	193	189	252	198	251	197	193	249	197
C-15									247	186	186	251	188	242	181	188	256	198

JUL 20 1949

JUL 25 1949

figures in grams.

Observation for Consumption of Ground Diet in Sample Lot Boxes of Mice

Box.	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	%
A-1	933 251	239 247	231 252	237 251	243 243	226 245	233 233	220 220	212 250	246 246	243 243	238 238	237 237			
A-2	244 238	237 243	231 248	237 246	238 238	230 242	240 240									
A-3	204 249	230 245	233 244	231 247	235 241	244 240	228 228	184 240	230 246	235 235	224 224	181 237	221 221			
A-14	185 245	240 240	199 248	216 241	198 244	203 233	193 231	179 245	206 234	205 233	206 240	172 222	172 222			
A-15	185 233	199 236	189 241	201 220	186 231	204 240	197 226	190 223	193 242	201 234	201 241	210 233	210 233			
B-1	235 235	244 236	246 248	230 237	226 236	248 228										
B-2	219 239	218 240	225 254	241 241	227 243	234 234										
B-3	237 253	240 250	237 251	238 256	243 253	247 242	249 249	247 247	245 245	242 242	239 239	234 234	230 230			
B-14	173 227	171 220	182 226	188 216	186 240	186 228	207 228	208 227	186 228	208 242	212 235	215 235	203 203			
B-15	214 233	177 241	177 228	180 241	226 237	191 245	229 238	193 246	226 248	204 232	214 237	215 239	209 209			
C-1	201 260	207 247	197 245	222 256	197 247	191 240	224 251	189 241	192 245	188 246	193 244	237 237	187 187			
C-2	251 267	261 271	241 268	258 261	255 255	250 250	247 267	256 271	270 270							
C-3	254 265	256 265	254 254	250 261	250 250	241 241	246 246	240 240	236 236	237 237	248 248	17				
C-14	146 250	199 254	193 254	191 254	207 249	190 247	198 256	197 246	194 253	200 250	210 242	176 238	162 162			
C-15	193 253	188 259	191 249	190 270	250 264	238 269	242 263	240 265	240 260	230 259	234 252	238 261	148 148			

Diet "Utilized" by 10 mice (unless otherwise indicated) in Sample Lot Boxes Tested.
Average intake / mouse indicated

Box	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A-1	25	24	16	34	35	41	22	27	22	821	711	710	711	721	610	516				
	A-2	50	43	50	56	53	45	29	25	25	819	711	749	710	624	517	412				
	A-3	22	33	20	34	42	84	39	58	34	826	814	819	840	754	613	519				
	A-14						50	56	39	56	41	40	60	74	58	56	54				
	A-15						36	42	48	59	42	39	50	16	38	52	951				
Ave. E Value/M		32 ⁺	33 ⁺	28 ⁺	44 ⁺	43 ⁺	56 ⁺	30	37	29	27 ⁺	34	45	38	49	35	40				
" S " /M							4.3	4.9	4.3	5.7	4.2	4.0	5.5	5.0	4.8	5.4	5.5				
B	B-1	15	33	34	21	42	44	30	26	717	718	716	515	419	314	313	312				
	B-2	19	26	26	24	39	47	28	37	20	31	20	23	916	622	625	622				
	B-3	30	26	28	20	19	23	17	18	613	615	513	512	413	414	414	415				
	B-14						47	62	59	41	47	18	16	21	43	949	862				
	B-15						34	32	39	27	25	26	22	943	950	946	226				
Ave. E Value/M		21 ⁺	28 ⁺	29 ⁺	21 ⁺	33	38	27	34	22	28	23	25	28	38	40	38				
" S " /M							4.0	4.7	4.1	3.4	3.8	2.3	1.9	3.3	4.9	4.8	5.2				
C	C-1	35	44	47	44	15	28	916	910	932	933	817	816	858	855	545	551				
	C-2	19	28	29	37	28	52	21	36	27	823	814	841	833	719	715	611				
	C-3	23	25	49	30	41	30	47	21	28	25	219	219	512	410	311	210				
	C-14							58	58	31	51	54	64	550	51	52	52				
	C-15						61	65	68	50	36	53	51	65	62	64	66				
Ave. E Value/M		25 ⁺	30 ⁺	41 ⁺	38 ⁺	31 ⁺	36 ⁺	29	28	33	33 ⁺	30 ⁺	38	49	44	41	56				
" S " /M								6.1	6.3	4.1	4.3	5.3	5.7	5.7	5.6	5.8	5.9				
Grand A. E Value		26 ⁺	32	33 ⁺	34	36	43 ⁺	28 ⁺	33	28	29	39	36	38 ⁺	44	41	45				
Grand A S "							4.5	5.2	4.9	4.4	4.1	3.8	4.0	4.7	5.1	5.3	5.5				

Figures in Gms. / ~~10~~ # mouse

Box

Usage Dist Utilized in Sample Lot Boxes Tested.

	DAY				
	10	11	12	13	14
A-1	519	416	115	18	18
A-2	311	411	111	18	18
A-3	514	417	313	317	43
A-14	25	41	32	43	46
A-15	934	947	940	946	946
Aver & Vmax/M	35	39	74	56	47
" 5 " /M	31	46	39	47	47

B-1	311	310	28	11	11
B-2	511	515	313	214	214
B-3	313	313	313	113	113
B-14	856	838	738	730	730
B-15	956	964	948	978	978
Aver & Vmax/M	48	43	43	63	33
" 5 " /M	66	60	54	54	33

C-1	558	550	323	39	39
C-2	511	430	310	76	76
C-3	19	11	14	11	11
C-14	51	61	63	57	57
C-15	65	68	959	910	910

Aver & Vmax/M	71	91	53	43	43
" 5 " /M	58	64	61	48	48

Grand Ave & Vmax	49	57	57	54	43
" 5 " /M	51	57	51	43	43

1507 PLASMOCID (2000 mgm drug or 1060 mgm base / 1000 Gm diet) @ 160 mgm base per kilo mouse

July

Aug.

DATE _____

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
94	93	94	95	96	97	98	99	30	31	1	2	3	4	5	6

DAYS

1 N 3 4 5 6 0 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

A-1

[illegible]

Views
10-1

Weight - total
" - /mouse

203	195	194	187	194	194	185	180	178	148	133	130	131	128	108	88	85	67	77	22	22	21	19	22	22	22	22	21	21	19	40	18	17
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A - 2.

[illegible]

Virus

Weight - total
/ mouse

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Aug.

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Virus
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JUL 18 1949

150 PLASMOCID. (1000 mgm base / 1000 gm diet) @ 160 mgm base / kilo mouse

[illegible]

Weight - total	205	196	194	193	191	191	193	186	181	180	167	167	144	38	115	76	47	33	17	14
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/mouse	205	196	194	193	191	191	193	186	181	180	167	167	144	38	115	76	47	33	17	14

[illegible]

ISOPLASMOCID (1000 mgm drug or 1060 mgm base / 1000 Gm diet) @ 160 mgm base / kilo mouse

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Weight - total
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[illegible]

Virus
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Wright - total
/ mouse

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July

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Week 10/4

Wright - total
" / mouse

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Views
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Weight - total
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x^* = extremely emaciated mouse without evidence paralysis or CNS signs: no weakness.

150 PLASMOCID (1000 mgm drug or 1000 mgm base / 1000 gm diet) @ 160 mgm base / kilo mouse

DATE	JULY										AUG									
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
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PENTAQUINE

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PENTAQUINE (1440 mgm drug or 1060 mgm base / 1000 gm diet) @ 160 mgm base / kilo mouse

July

Aug

DATE _____

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Weight - total
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PENTAGUINE (1440 mgm drug or 1060 mgm base / 1000 gm diet) @ 160 mgm base / kilo mouse

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PENTAQUINE (1440 mgm drug or 1060 mgm base / 1000 gm diet) @ 160 mgm base / kilo mouse

DATE	JULY	AUG.																												
DAYS	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
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" female

51-2

D (chord)

No Views

Wright: total

① mouse i, box 3-15 dead 5:00 PM. 27 July 49 = bacterial infection

one more, removing
taken for sections on
6 Sept 45.

JUL 27 1949

On 26 July 49 mouse #1 of Box B-15 was observed to be ruffled, hunched, and generally weak, & matted eyes. Tail somewhat soiled.

Today progression of all above symptoms & extreme weakness of all extremities, matted sunken eyes, spontaneous twitchings of extremity and head. Tail not soiled today. Died spontaneously @ 5:00 PM.

Autopsy revealed:

- a) Grossly normal appearing CNS
- b) " " " " Lungs
- c) " " " " gut
- d) " " " " Liver
- e) Spleen enlarged x 5-10
- f) Normal appearing kidneys.

Sections cervical, thoracic & lumbar cord together & 1/2 brain, spleen and kidneys fixed in Zinkens.

Remaining CNS ground in rec NRS and passaged 0.03 cc 1cc to each of 5 Ch alb mice @ 2 wks of age.

Day					
Mouse	1	2	3	4	5
1	D				
2	D				
3	D				
4	D				
5	D				

Day 1 B.A.P.
 pure culture bacteria
 small, pearl gray
 confluent colonies
 G(-) esao-bacilli? -
 rather short stubby
 pleomorphic G(-) rods.

prob. mouse typhoid

AUG 5 1949

Today one mouse of Box B-14 found recently dead.

Strile autopsy:
 spleen enlarged x 6-7.
 remaining viscera normal.

Sections of medulla, cervical, thoracic and lumbar cord, & liver spleen and kidney fixed in acetic Zinkens.

Brain mushy: ∴ no sections: brain cultured

B.A.P. 1
 0

No Drug Administered In Diet. Diet Otherwise Same As Before

July Virus

Ans 5-

3167

10 21 12 23 25 26 27 28 29 30 31
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

Days

1	2	3	4	5	6	0	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
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Q-1

D
P P P P

Views
10-2

Wright: total
" / mouse

[illegible]

2-2

[illegible]

Virus 10-2

Weight: total
" / mouse

30970 70471 70672 70873 71074 71275 71476 71677 71878 72079 72280 72481 72682 72883 73084 73285 73486 73687 73888 74089 74290 74491 74692 74893 75094 75295 75496 75697 75898 76099 76200 76401 76602 76803 77004 77205 77406 77607 77808 78009 78210 78411 78612 78813 79014 79215 79416 79617 79818 80019 80220 80421 80622 80823 81024 81225 81426 81627 81828 82029 82230 82431 82632 82833 83034 83235 83436 83637 83838 84039 84240 84441 84642 84843 85044 85245 85446 85647 85848 86049 86250 86451 86652 86853 87054 87255 87456 87657 87858 88059 88260 88461 88662 88863 89064 89265 89466 89667 89868 90069 90270 90471 90672 90873 91074 91275 91476 91677 91878 92079 92280 92481 92682 92883 93084 93285 93486 93687 93888 94089 94290 94491 94692 94893 95094 95295 95496 95697 95898 96099 96200 96401 96602 96803 97004 97205 97406 97607 97808 98009 98210 98411 98612 98813 99014 99215 99416 99617 99818 100019 100220 100421 100622 100823 101024 101225 101426 101627 101828 102029 102230 102431 102632 102833 103034 103235 103436 103637 103838 104039 104240 104441 104642 104843 105044 105245 105446 105647 105848 106049 106250 106451 106652 106853 107054 107255 107456 107657 107858 108059 108260 108461 108662 108863 109064 109265 109466 109667 109868 110069 110270 110471 110672 110873 111074 111275 111476 111677 111878 112079 112280 112481 112682 112883 113084 113285 113486 113687 113888 114089 114290 114491 114692 114893 115094 115295 115496 115697 115898 116099 116200 116401 116602 116803 117004 117205 117406 117607 117808 118009 118210 118411 118612 118813 119014 119215 119416 119617 119818 120019 120220 120421 120622 120823 121024 121225 121426 121627 121828 122029 122230 122431 122632 122833 123034 123235 123436 123637 123838 124039 124240 124441 124642 124843 125044 125245 125446 125647 125848 126049 126250 126451 126652 126853 127054 127255 127456 127657 127858 128059 128260 128461 128662 128863 129064 129265 129466 129667 129868 130069 130270 130471 130672 130873 131074 131275 131476 131677 131878 132079 132280 132481 132682 132883 133084 133285 133486 133687 133888 134089 134290 134491 134692 134893 135094 135295 135496 135697 135898 136099 136200 136401 136602 136803 137004 137205 137406 137607 137808 138009 138210 138411 138612 138813 139014 139215 139416 139617 139818 140019 140220 140421 140622 140823 141024 141225 141426 141627 141828 142029 142230 142431 142632 142833 143034 143235 143436 143637 143838 144039 144240 144441 144642 144843 145044 145245 145446 145647 145848 146049 146250 146451 146652 146853 147054 147255 147456 147657 147858 148059 148260 148461 148662 148863 149064 149265 149466 149667 149868 150069 150270 150471 150672 150873 151074 151275 151476 151677 151878 152079 152280 152481 152682 152883 153084 153285 153486 153687 153888 154089 154290 154491 154692 154893 155094 155295 155496 155697 155898 156099 156200 156401 156602 156803 157004 157205 157406 157607 157808 158009 158210 158411 158612 158813 159014 159215 159416 159617 159818 160019 160220 160421 160622 160823 161024 161225 161426 161627 161828 162029 162230 162431 162632 162833 163034 163235 163436 163637 163838 164039 164240 164441 164642 164843 165044 165245 165446 165647 165848 166049 166250 166451 166652 166853 167054 167255 167456 167657 167858 168059 168260 168461 168662 168863 169064 169265 169466 169667 169868 170069 170270 170471 170672 170873 171074 171275 171476 171677 171878 172079 172280 172481 172682 172883 173084 173285 173486 173687 173888 174089 174290 174491 174692 174893 175094 175295 175496 175697 175898 176099 176200 176401 176602 176803 177004 177205 177406 177607 177808 178009 178210 178411 178612 178813 179014 179215 179416 179617 179818 180019 180220 180421 180622 180823 181024 181225 181426 181627 181828 182029 182230 182431 182632 182833 183034 183235 183436 183637 183838 184039 184240 184441 184642 184843 185044 185245 185446 185647 185848 186049 186250 186451 186652 186853 187054 187255 187456 187657 187858 188059 188260 188461 188662 188863 189064 189265 189466 189667 189868 190069 190270 190471 190672 190873 191074 191275 1

Judy's

Avg.

NO 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

1	2	3	4	5	6	0	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
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Weight: total
" mouse

205	100	201	103	102	100	100	100	177	174	176	175	169	147	144	177	82	68	55	54	52	51	48	34	22	21	22	22	21	22	22	21	21	19	19	16	14
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0-6
 Views
 10-3

Virus

[illegible]

Weight: total
" mouse

7111 90921313 71675571408706706711 70210589 191089185114162155114 192124124122118 955957 5641 41 41 42 42 42 42

July

Aug

DATE

DAYS

9-7

Views
10-3

Weight: total
" / mouse

$$e^{-\infty}$$

Views

Wright total:
" mouse:

40 21 22 23 24 25 26 27 28 29 30 31
 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

1 Y 3 4 5 6 0 1 V 5 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	2	3	4	5	6	7	8	9	10
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[illegible]

0 1 2 3 4 5 6 7 8 9

[illegible]

No Drug Diet

	July														Aug.																						
DATE	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												
DAYS	1	2	3	4	5	6	0	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

[illegible]

Weight: total 204 102203707005707001 193 191 194 195 186 170 152 154 154 153 153 155 156 156 156 157 157 156 134 134 115 94 75 71 38 34
 " mouse 204 102203707005707001 193 191 194 195 186 188 190 193 193 191 191 194 195 195 195 196 196 195 191 191 191 191 189 187 178 19 17

[illegible][illegible]

No Drug Diet

July:

Aug:

DATE

70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125

DAYS

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

Q-13

D

PPPPD

D

Views
10+

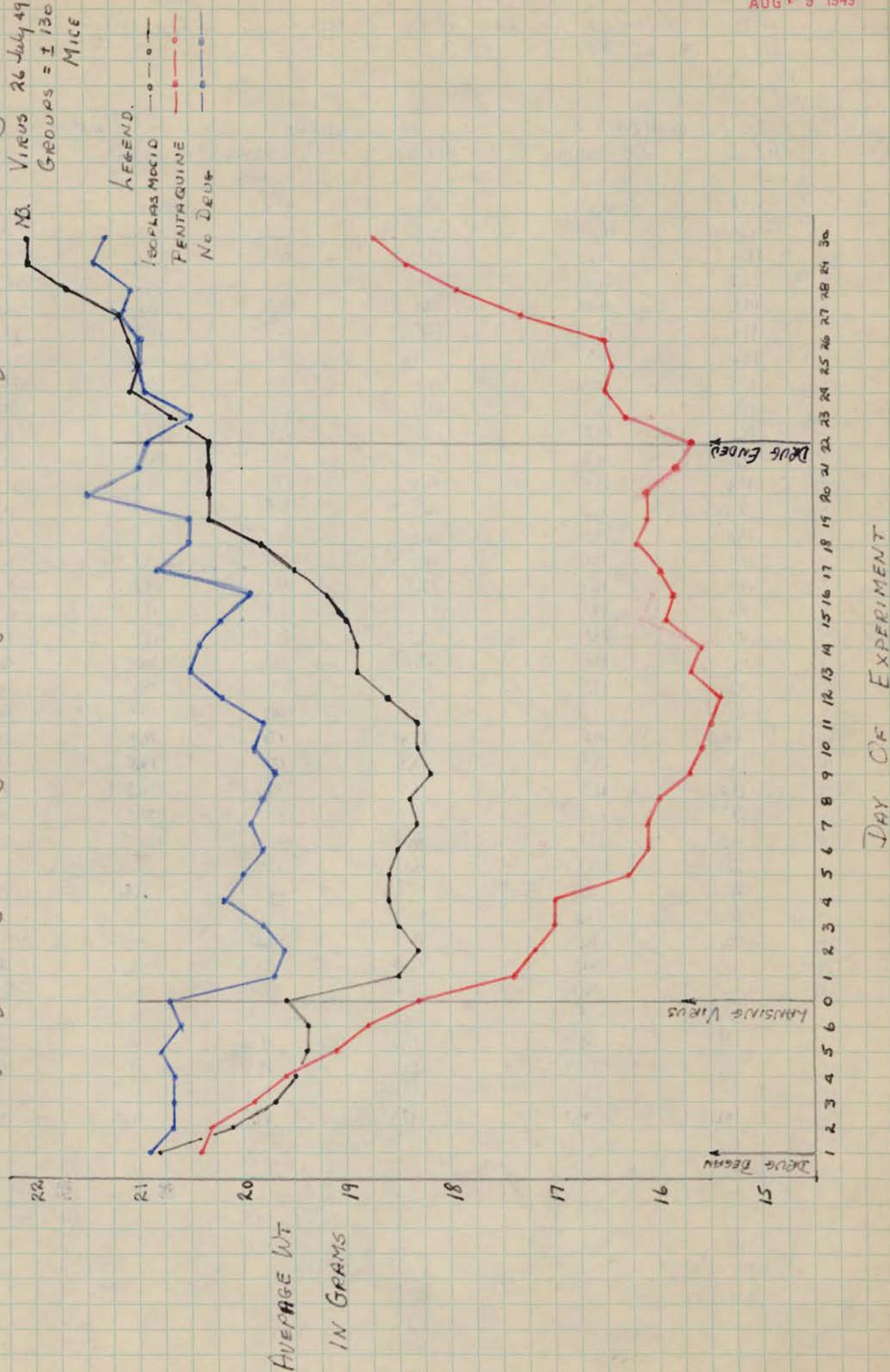
Wright: 4040

u / mouse.

206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250
 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250

o obviously pregnant

Summary: Comparative Graphic Representation of Average Weights of Mice which Received Virus in Sept of 19 July 49, Comparing Isoplasmod, Pentagum, and No Drug Controls



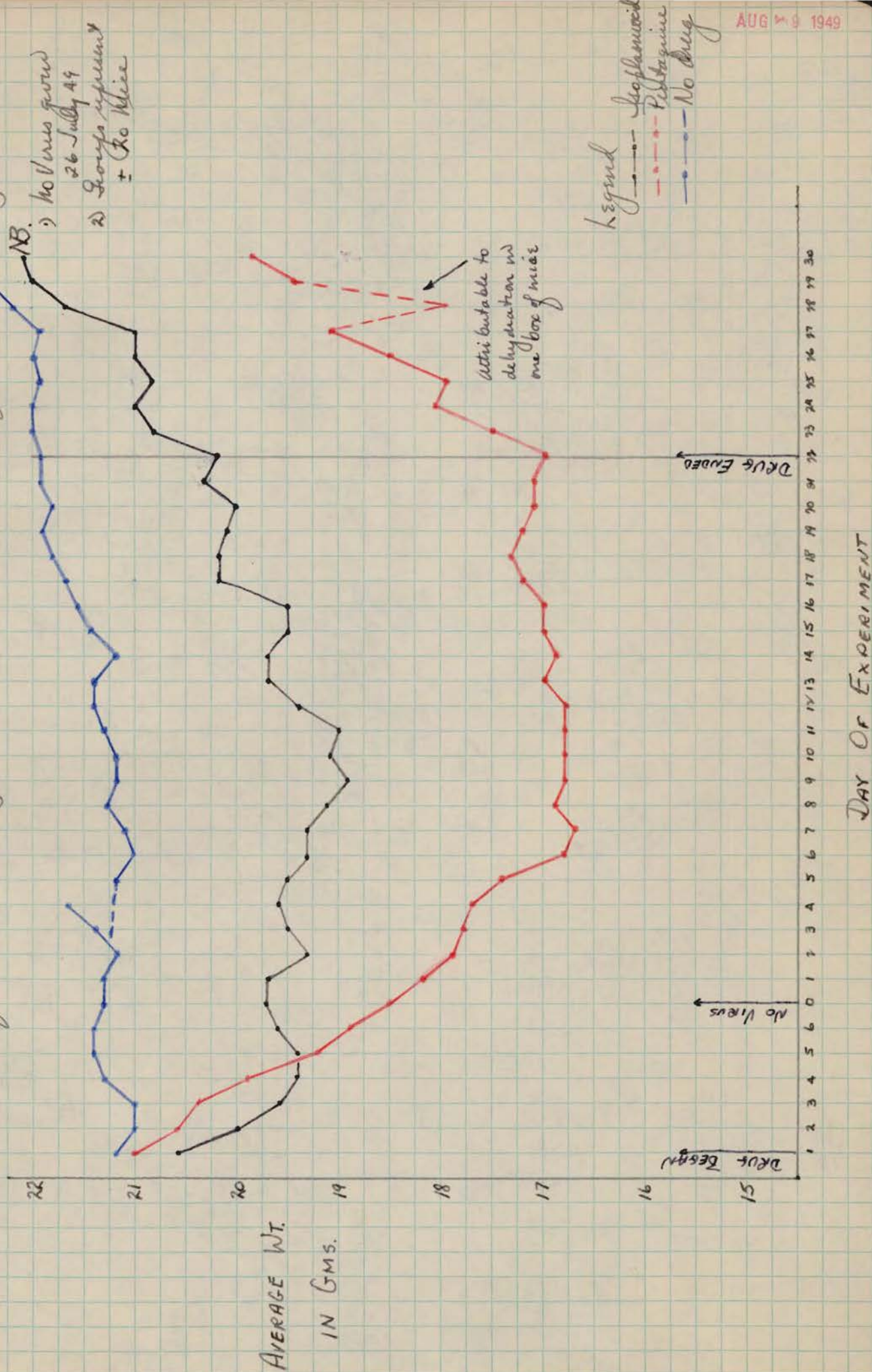
AUG 49 1949

Average Weight By Day of Mice Used in Drug - Virus Expt of 19 July 49.

DAY	ISOPHARMOCID		PENTHAQUINE		No Drug	
	Virus	No Virus	Virus	No Virus	Virus	No Virus
1	20.8	20.6	20.4	21.0	20.9	21.2
2	20.1	20.0	20.3	20.6	20.7	21.0
3	19.7	19.6	19.9	20.4	20.7	21.0
4	19.5	19.4	19.6	19.9	20.7	21.3
5	19.4	19.4	19.1	19.2	20.8	21.4
6	19.4	19.6	18.8	18.9	20.6	21.4
7	19.6	19.7	18.3	18.5	20.7	21.3
8	18.5	19.7	17.4	18.2	19.7	21.3
9	18.3	19.3	17.2	17.9	19.6	21.2
10	18.5	19.5	17.0	17.8	19.8	21.4
11	18.6	19.6	17.0	17.7	20.2	21.7
12	18.6	19.5	16.3	17.4	20.0	21.2
13	18.5	19.3	16.1	16.8	19.8	21.0
14	18.3	19.3	16.1	16.7	19.9	21.1
15	18.4	19.1	16.0	16.9	19.8	21.3
16	18.2	18.9	15.7	16.8	19.7	21.2
17	18.3	19.1	15.6	16.8	19.9	21.2
18	18.3	19.0	15.5	16.8	19.8	21.3
19	18.6	19.4	15.4	16.8	20.2	21.4
20	18.9	19.7	15.7	17.0	20.5	21.4
21	19.0	19.5	15.6	16.9	20.4	21.2
22	19.2	19.5	15.9	17.0	20.2	21.4
23	19.3	19.5	15.8	17.0	19.8	21.6
24	19.5	20.2	16.0	17.2	20.8	21.7
25	19.8	19.9	16.2	17.3	20.5	21.8
26	20.3	19.8	16.1	17.2	20.5	21.9
27	20.3	19.7	16.1	17.1	21.5	21.8
28	20.3	20.3	15.8	17.1	21.0	21.9
29	20.3	20.2	15.7	17.0	20.9	21.9
30	20.7	20.8	16.3	17.5	20.5	22.0
31	21.1	21.0	16.5	18.1	20.9	22.0
32	21	20.8	16.4	17.9	21	21.9
33	21.1	21	16.5	18.5	21	22
34	21.2	21	17.3	19.1	21.2	21.9
35	21.7	21.7	17.9	17.9	21.1	22.2
36	22.1	22.0	18.4	19.4	21.4	22.4
37	22.1	22.1	18.7	19.8	21.3	22.6

AUG 19 1949

Summary: Comparative Graphic Representation of Average Weights of mice which received no virus in Exp. 4 of 19 July 49. Comparing 150 penicillin + no drug controls.



30 plasmodia

10^{-3}

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0/50
1/49
2/49
4/49
4/48

Comparative morbidity - mortality: Drug - Virus Exp't of 1st July 49.

AUG 1 1949

DAY	DILUT.	Iso %	PENT %	N.D. %	Iso %	PENT %	N.D. %	DILUT.	DAY
2	-2	1/50 2	5/47 10.6	6/49 12.3	7/50 14	5/47 10.6	8/49 16.3	-2	3
	-3	2/50 4	0/50 -	1/49 2	3/50 6	0/50 -	1/49 2	-3	
	-4	0/29 -	0/28 -	0/28 -	0/29 -	0/28 -	0/28 -	-4	
4	-2	9/50 18	8/47 17	10/49 20.4	11/50 22	9/47 19.1	10/49 20.4	-2	5
	-3	5/50 10	2/50 4	2/49 4	6/50 12	2/50 4	5/49 10.2	-3	
	-4	0/29 -	0/28 -	0/28 -	0/29 -	0/28 -	0/28 -	-4	
6	-2	11/50 22	14/49 28.8	12/49 24.5	17/50 34	14/47 38.3	15/49 30.6	-2	7
	-3	7/50 14	5/50 10	6/49 12.2	8/50 16	5/50 10	7/49 14.3	-3	
	-4	0/29 -	1/28 3.6	0/28 -	0/29 -	1/28 3.6	0/28 -	-4	
8	-2	21/50 42	20/47 42.6	24/49 49	28/50 56	21/47 44.6	27/49 55.1	-2	9
	-3	17/50 34	7/50 14	7/49 14.3	14/50 28	8/50 16	8/49 16.4	-3	
	-4	1/29 3.5	1/28 3.6	0/28 -	2/29 7	1/28 3.6	0/28 -	-4	
10	-2	31/50 62	23/47 49	30/49 61	35/50 70	29/47 61.8	35/48 73	-2	11
	-3	16/50 32	13/50 26	11/50 22	18/50 36	14/49 28.5	12/49 24.5	-3	
	-4	2/29 7	2/27 7.4	1/28 3.6	4/29 13.8	2/28 7.1	1/28 3.6	-4	
12	-2	41/50 82	33/46 71.9	38/48 79.1	43/50 86	35/46 76.1	29/48 81.2	-2	13
	-3	19/50 38	14/49 28.6	15/49 30.6	20/50 40	17/49 34.7	15/49 30.6	-3	
	-4	4/29 13.8	2/28 7.1	3/28 10.8	4/29 13.8	2/28 7.1	3/28 10.8	-4	
14	-2	44/50 88	39/46 84.5	40/48 83.3	44/50 88	41/45 91.2	40/48 83.3	-2	15
	-3	22/50 44	17/49 34.7	16/49 32.7	24/50 48	20/49 40.8	16/49 32.7	-3	
	-4	4/28 14.3	3/28 10.8	3/28 10.8	4/27 14.8	3/25 12	3/28 10.8	-4	

(15)	ISO	Print	N.D.
-2	44/50 88	41/45 91.7	40/48 83.3
-3	26/50 57	10/49 40.8	16/49 37.7
-4	4/27 14.8	3/25 14	3/28 10.8

(71)	ISO	Print	N.D.
-2	48/50 96	44/45 97.8	45/48 93.8
-3	37/50 74	25/47 57.7	30/49 61.1
-4	5/27 18.6	5/24 10.8	6/28 11.4

(16)	ISO	Print	N.D.
-2	47/50 94	43/45 95.8	42/48 87.3
-3	32/50 64	10/47 41.5	17/49 34.7
-4	5/27 18.6	3/24 14.5	3/28 10.8

(72)	ISO	Print	N.D.
-2	48/50 96	44/45 97.8	45/48 93.8
-3	37/50 74	26/47 55.3	32/49 65.7
-4	5/27 18.6	5/23 11.7	6/28 11.4

(17)	ISO	Print	N.D.
-2	47/50 94	43/45 95.8	43/48 89.7
-3	33/50 66	12/47 46.7	17/49 34.7
-4	5/27 18.6	5/24 10.8	4/28 14.3

(73)	ISO	Print	N.D.
-2	48/50 96	44/45 97.8	45/48 93.8
-3	38/50 76	28/47 59.4	33/49 67.7
-4	5/27 18.6	5/22 11.7	8/28 18.6

(18)	ISO	Print	N.D.
-2	47/50 94	44/45 97.8	45/48 93.8
-3	36/50 72	24/47 51	24/49 48
-4	5/27 18.6	5/24 10.8	5/28 17.9

(74)	ISO	Print	N.D.
-2	48/50 96	44/45 97.8	45/48 93.8
-3	39/50 78	29/47 61.8	34/49 69.7
-4	5/27 18.6	5/22 11.7	8/28 18.6

(19)	ISO	Print	N.D.
-2	47/50 94	44/45 97.8	45/48 93.8
-3	34/50 77	25/47 57.7	26/49 53
-4	5/27 18.6	5/24 10.8	6/28 11.4

(75)	ISO	Print	N.D.
-2	48/50 96	45/45 100	45/48 93.8
-3	40/50 80	33/47 74.3	36/49 73.4
-4	5/27 18.6	5/22 11.7	8/28 18.6

(70)	ISO	Print	N.D.
-2	47/50 94	44/45 97.8	45/48 93.8
-3	36/50 72	15/47 51.7	29/49 55
-4	5/27 18.6	5/24 10.8	6/28 11.4

(76)	ISO	Print	N.D.
-2	48/50 96	45/45 100	45/48 93.8
-3	44/50 88	39/47 79.1	37/49 75.4
-4	5/27 18.6	5/22 11.7	8/28 18.6

(77)	ISO	Print	N.D.
-2	48/50 96	45/45 100	45/48 93.8
-3	44/50 88	37/47 79.1	37/49 75.4
-4	5/27 18.6	5/22 11.7	8/28 18.6

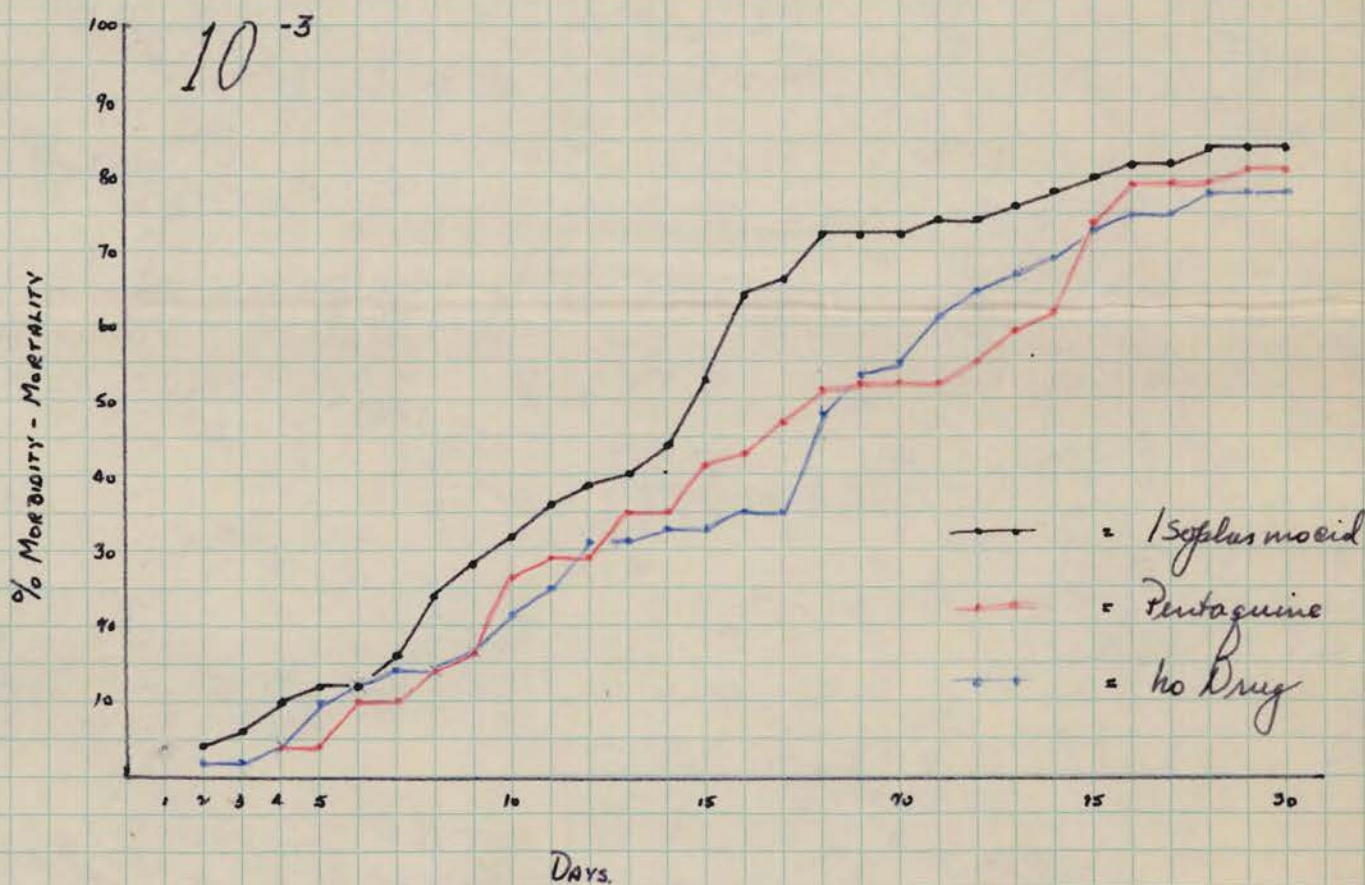
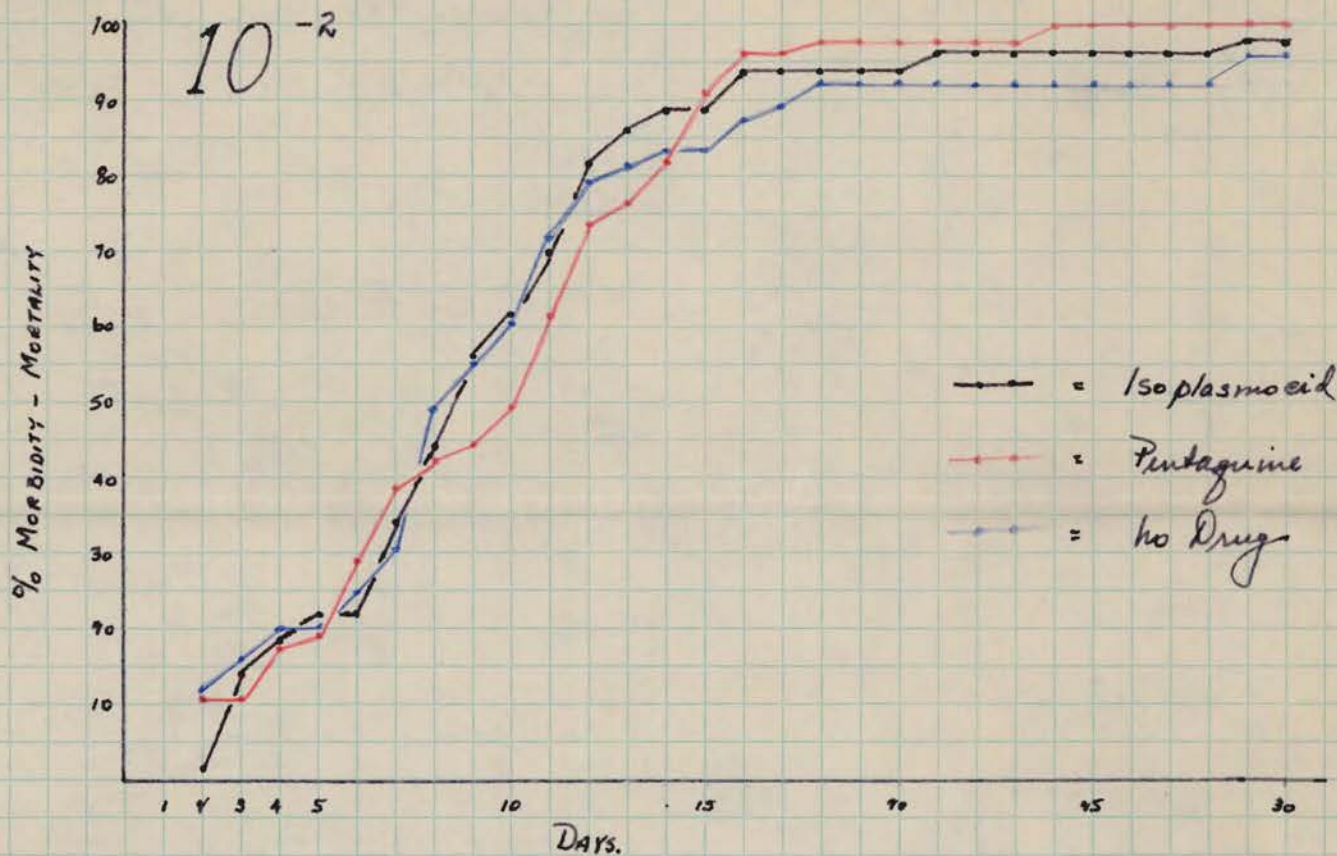
	ISO	Pent	N D.
18			
-2	48/50 96	45/45 100	45/48 93.8
-3	42/50 84	37/47 79.1	38/49 77.3
-4	5/27 18.6	5/22 22.7	8/28 28.6

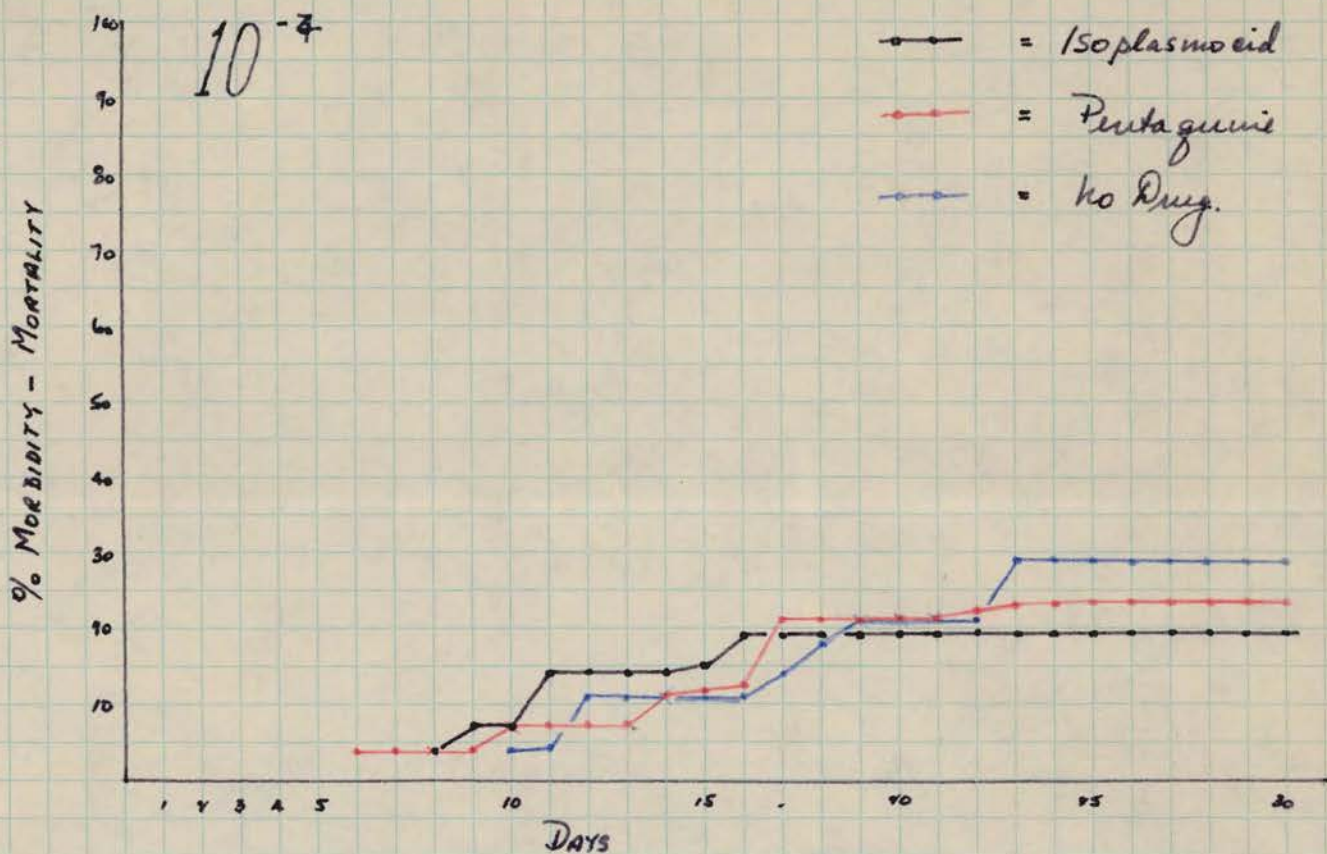
19			
-2	49/50 98	45/45 100	46/48 95.9
-3	42/50 84	38/47 80.8	38/49 77.3
-4	5/27 18.6	5/22 22.7	8/28 28.6

30			
-2	49/50 98	45/45 100	46/48 95.9
-3	42/50 84	38/47 80.8	38/49 77.3
-4	5/27 18.6	5/22 22.7	8/28 28.6

Summary: Comparative morbidity - mortality Drug - Virus Exp't
of 19 July 49.

AUG 25 1949





NB. Seven of thirty mice in the Pentagumie series at 10^{-4} died of Mouse typhoid.

Stock solution of isoplasmosid titrated containing 10 mg base per cc. was diluted in saline 1:50, and equal parts were mixed with virus 1:50, 1:500 + 1:5,000

diluted in saline to yield a final concentration of drug of 0.1 mg per cc (i.e. 100 mg/1000 cc or 1/10x as much as was given ~~daily~~ to us in a single dose to monkeys)

Mixtures left at room temp. for 1 hour before inoculation

VIRUS Used - 2 ampoules of Lot IV of 8/16/49 flocculent ppt. present on thawing removed by centrifugation before dilutions were made.

Mice - @ 18 gm. Maxfield

~~10-2~~

ISOPLASMOCID + VIRUS

	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
10 ⁻² - 1	-	P	D																									
2	-	P	D																									
3	-	P	D																									
4	-	-	P	P	D																							
5	-	-	?	?	insects	-	PP	D																				
6	-	-	-	-	-	P	D																					
7	-	-	-	-	-	-	P	D																				
8	-	-	-	-	-	-	?	D																				
9	-	-	-	-	-	-	-	?	D																			
10	-	-	-	-	-	-	-	-	D																			
11	-	-	-	-	-	-	-	-	PP	D																		
12	-	-	-	-	-	-	-	-	PP	D																		
13	-	-	-	-	-	-	-	-	P	D																		
14	-	-	-	-	-	-	-	-	?	P	D																	
15	-	-	-	-	-	-	-	-	-	D																		
16	-	-	-	-	-	-	-	-	-	P																		
17	-	-	-	-	-	-	-	-	-	?	PP	PP																
18	-	-	-	-	-	-	-	-	-	-	PP	PP																
19	-	-	-	-	-	-	-	-	-	-	-	-																
20	-	-	-	-	-	-	-	-	-	-	-	-																

ISOPLASM. + virus 10⁻² - pH 5 (heavy)

" + " 10⁻³ pH 4

" + " 10⁻⁴ pH 3.8

pH det. with paper - very crude.

Virus 10⁻² saline - pH 5

" 10⁻³ " - "

" 10⁻⁴ " - "

ISOPLASMOCID + VIRUS (continued)

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

 10^{-3} [illegible] 10^{-4} [illegible]

[illegible][illegible]

	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
10^{-4}	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SALINE CONTROL

28 days

35 days

10^{-2}

19/20

19/20

10^{-3}

15/20

16/20

10^{-4}

6/20

9/20

LD_{50}

3.5

3.7

130 PLASMOCID

28 days

35 days

10^{-2}

20/20

20/20

10^{-3}

17/20

18/20

10^{-4}

5/20

5/20

LD_{50}

3.6

3.6

Pool IV

JUL 26 1949

Preparation of Lansing Virus Pool A. of this date.

Purpose: To create, by inoculation of a large number of albino mice a large pool of high titer Lansing polio virus for use in drug studies in mice.

Procedure: Two sealed glass ampoules of Lansing Virus of Pool III Pass #204, 7-6-48 (10% M.C. in Saline) were thawed, and pooled. After sufficient amount of virus was removed to inoculate mice of drug experiment of 19 July 49, the remainder (4.8 cc) was mixed with normal Saline, 3.0 cc, and 0.03 cc of resulting mixture (6.9% M.C. in saline) given 1 cc to each of 100.00 gram max field albino's.

Mice will be harvested, on day of pronounced symptoms (paralysis) cords + midbrain + medulla taken aseptically, cultured and stored 5 for Listeroid frozen by solid CO₂.

Ultimately to be made into 10% suspension, and stored frozen in sealed glass ampoules.

JUL 26 1949

Lansing Pool A.

Box 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	-	D												
2	-	D												
3	-	D												
4	-	-	-	-	-	-	-	P	AUG 3 1949					
5	-	-	-	-	-	-	-	P	AUG 4 1949					
6	-	-	-	-	-	-	-	-	D					
7	-	-	-	-	-	-	-	-	D					
8	-	-	-	-	-	-	-	-	-	-	P	AUG 10 1949		
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

discarded

Box 2

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	-	PP	JUL 28 1949											
2	-	-	-	-	D									
3	-	-	-	-	-	P	AUG 2 1949							
4	-	-	-	-	-	P	AUG 3 1949							
5	-	-	-	-	-	P	AUG 4 1949							
6	-	-	-	-	-	P	AUG 4 1949							
7	-	-	-	-	-	P	AUG 4 1949							
8	-	-	-	-	-	-	-	P	AUG 8 1949					
9	-	-	-	-	-	-	-	-	P	AUG 10 1949				
10	-	-	-	-	-	-	-	-	P	AUG 12 1949				

Box 3

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	-	D												
2	-	D												
3	-	D												
4	-	PP	JUL 28 1949											
5	-	-	P	JUL 29 1949										
6	-	-	-	-	-	P	AUG 2 1949							
7	-	-	-	-	-	P	AUG 3 1949							
8	-	-	-	-	-	PP	AUG 4 1949							
9	-	-	-	-	-	P	AUG 4 1949							
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

discarded

Box 4

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	-	D												
2	-	P	JUL 29 1949											
3	-	P	JUL 30 1949											
4	-	-	-	-	P	AUG 2 1949								
5	-	-	-	-	P	AUG 2 1949								
6	-	-	-	-	-	PP	AUG 4 1949							
7	-	-	-	-	-	-	-	P	AUG 8 1949					
8	-	-	-	-	-	-	-	P	AUG 8 1949					
9	-	-	-	-	-	-	-	PP	AUG 9 1949					
10	-	-	-	-	-	-	-	PP	AUG 10 1949					

Pool "A"

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Box 5

1	-	D												
2	-	D												
3	-	D												
4	-	D												
5	-													
6	-													
7	-													
8	-													
9	-													
10	-													

JUL 28 1949

AUG 4 1949

AUG 7 1949

AUG 7 1949

D

Box 6

1	-	D												
2	-	D												
3	-													
4	-													
5	-													
6	-													
7	-													
8	-													
9	-													

JUL 28 1949

AUG 1 1949

AUG 3 1949

AUG 3 1949

AUG 5 1949

AUG 6 1949

discarded

Box 7

1	-	D												
2	-	D												
3	-													
4	-													
5	-													
6	-													
7	-													
8	-													
9	-													
10	-													

AUG 2 1949

AUG 2 1949

AUG 3 1949

AUG 3 1949

AUG 7 1949

AUG 11 1949

AUG 12 1949

Box 8

1	-	D												
2	-	D												
3	-													
4	-													
5	-													
6	-													
7	-													
8	-													
9	-													
10	-													

JUL 28 1949

AUG 2 1949

AUG 4 1949

AUG 6 1949

AUG 7 1949

AUG 8 1949

AUG 9 1949

discarded

DAY

Pool "A"

JUL 26 1949

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Box 9

1	-	D												
2	-	D												
3	-	D												
4	-	P												
5	-	P												
6	-	-	P											
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

JUL 28 1949
JUL 28 1949
JUL 29 1949
AUG 3 1949
AUG 3 1949
AUG 6 1949

Box 10

1	-	D												
2	-	D												
3	-	P												
4	-	P	D											
5	-	P	-	-	-	-	-	-	-	-	-	-	-	-
6	-	P	-	-	-	-	-	-	-	-	-	-	-	-
7	-	P	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

JUL 28 1949
AUG 1 1949
AUG 2 1949
AUG 3 1949
AUG 3 1949
AUG 9 1949

Box 11

1	-	D												
2	-	P												
3	-	P												
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

JUL 28 1949
JUL 28 1949
AUG 3 1949
AUG 3 1949
AUG 4 1949
AUG 5 1949
AUG 6 1949

Box 12

1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AUG 2 1949
AUG 4 1949
AUG 4 1949
AUG 4 1949
AUG 7 1949
AUG 8 1949

Pool "A"

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Box 13

1	-	D												
2	-	P	JUL 28 1949											
3	-	-	-	-	-	-	-	-	P	AUG 5 1949				
4	-	-	-	-	-	-	-	-	P	AUG 6 1949				
5	-	-	-	-	-	-	-	-	P	AUG 6 1949				
6	-	-	-	-	-	-	-	-	P	AUG 6 1949				
7	-	-	-	-	-	-	-	-	P	AUG 7 1949				
8	-	-	-	-	-	-	-	-	P	AUG 8 1949				
9	-	-	-	-	-	-	-	-	P	AUG 9 1949				
10	-	-	-	-	-	-	-	-	P	AUG 11 1949				

Box 14

1	-	D												
2	-	D												
3	-	P	JUL 28 1949											
4	-	P	JUL 28 1949											
5	-	-	-	-	-	-	-	-	PP	AUG 2 1949				
6	-	-	-	-	-	-	-	-	PP	AUG 2 1949				
7	-	-	-	-	-	-	-	-	PP	AUG 3 1949				
8	-	-	-	-	-	-	-	-	P	AUG 4 1949				
9	-	-	-	-	-	-	-	-	-	-	-	-	-	AUG 10 1949
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

discarded

Box 15

1	-	D												
2	-	-	-	-	-	-	-	-	-	AUG 3 1949				
3	-	-	-	-	-	-	-	-	-	AUG 3 1949				
4	-	-	-	-	-	-	-	-	-	AUG 3 1949				
5	-	-	-	-	-	-	-	-	D					
6	-	-	-	-	-	-	-	-	P	AUG 4 1949				
7	-	-	-	-	-	-	-	-	PP	AUG 5 1949				
8	-	-	-	-	-	-	-	-	PP	AUG 8 1949				
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

} discarded

Box 16

1	-	D												
2	-	D												
3	-	P												
4	-	-	-	-	-	-	-	-	PP	AUG 1 1949				
5	-	-	-	-	-	-	-	-	PP	AUG 2 1949				
6	-	-	-	-	-	-	-	-	P	AUG 2 1949				
7	-	-	-	-	-	-	-	-	P	AUG 3 1949				
8	-	-	-	-	-	-	-	-	P	AUG 3 1949				
9	-	-	-	-	-	-	-	-	PP	AUG 5 1949				
10	-	-	-	-	-	-	-	-	P	AUG 5 1949				

JUL 28 1949

Seventeen mice found paralyzed today were sacrificed, prepared for sterile autopsy and brain stems + cords harvested. Pools were made of CNS as follows.

Lot I 6 mice
 II 6 mice
 III 5 mice,

Cultures made of each individual brain, one lot to a BAP.

and frozen immediately in solid CO₂ each lot to one lusteroid tube.

	BAP				
DAY	1	2	3	4	5
LOT I					
LOT II					
LOT III					

JUL 29 1949

Five mice found paralyzed today were sacrificed, prepared for sterile autopsy and brain stems and cords harvested.

One pool made = lot IV
 and frozen immediately in solid CO₂ in a lusteroid.

Cultures made each brain individually.

	BAP				
DAY	1	2	3	4	5
LOT IV	0	0	0	0	0

Two mice found paralyzed today sacrificed prepared for sterile autopsy and brain stems + cords harvested.

One pool made = LOT V
 and frozen immediately in solid CO₂ in a lusteroid.

Cultures made, each brain individually.

	BAP				
DAY	1	2	3	4	5
LOT V	0	0	0	0	0

AUG 1 1949

Five mice found paralyzed today were sacrificed, prepared for sterile autopsy and brain stems + cords harvested.

One pool made = LOT VI
 and frozen immediately in solid CO₂ in a lusteroid tube.

Cultures made, each brain individually.

	BAP				
DAY	1	2	3	4	5
LOT VI	5	5	5	5	5

AUG 2 1949

Fourteen mice found paralyzed today were sacrificed,
prepared for sterile autopsy and brain stems +
cords harvested.

Pooled in lots as follows.

LOT VII = 5 mice

LOT VIII = 5 mice

LOT IX = 4 mice

discarded

Cultured BAP

	1	2	3	4	5
LOT VII	4	4	4	4	
VIII	0	0	0	0	
IX	0	1	1	1	1

Placed in buxaroids + frozen in solid CO₂ immediately

AUG 3 1949

Twenty-three mice found paralyzed today were sacrificed
prepared for sterile autopsy and brain stems + cords
harvested

Pooled in lots as follows.

LOT X = 6 mice

LOT XI = 6 mice

LOT XII = 6 mice

discarded LOT XIII = 5 mice

discarded

discarded

Cultured BAP

	1	2	3	4	5
LOT X	5	1	1	1	1
LOT XI	0	0	0		
LOT XII	0	6	1		
LOT XIII	mixed				

LOT XIII discarded: 7 mice having apparently concomitant bacterial infections.
Culture plates = pure cult bacteria on smear of brain on BAP

Seventeen mice found paralyzed today: one
discarded because of obviously infected
bite wounds about back + tail, which
would have increased risks of contamination.

AUG 4 1949

Sixteen then, were prepared for sterile autopsy and brain stems
and cords harvested

Pooled in Lots as follows.

LOT XIV = 6 mice

" XV = 5 "

" XVI = 5 " - frozen

Brains cultured BAP

	1	2	3	4	5
LOT XIV	0	0	0		
XV	0	0	0		
XVI	0	0	0		

Ten mice found paralyzed today sacrificed,
prepared for sterile autopsy and brain stems + cords
harvested.

AUG 5 1949

Ported in lots as follows.

LOT XVII = 5 mice

" XVIII = 5 "

Cultured BAP

	1	2	3
LOT XVII	0	0	0
LOT XVIII	0	0	0

and frozen in solid CO₂ in buxaroid.

AUG 6 1949

Ten mice found paralyzed today sacrificed, prepared for sterile autopsy and brain stems + cords harvested

Pooled in lots as follows

Lot XIX = 5 mice diseased
" XX = 5 mice

and frozen in solid CO₂ immediately

Brains cultured

DAP

	1	2	3
LOT XIX	35		
LOT XX	0	0	0

AUG 7 1949

Six mice found paralyzed today sacrificed, prepared for sterile autopsy and brain stems + cords harvested

Pooled 6 mice = LOT XXI diseased

and frozen solid CO₂ immediately

Brains cultured DAP

	1	2	3
LOT XXI	0	150	

AUG 8 1949

Eight of nine mice found paralyzed today sacrificed prepared for sterile autopsy, and brain stems + cords harvested.

Pooled in lots as follows

LOT XXII = 5 mice diseased
" XXIII = 3 mice lost

and frozen in solid CO₂ immediately

Brains cultured

DAP

	1	2	3
LOT XXII	35	15	
" XXIII	0	0	0

Aug 9 1949

Five mice found paralyzed today sacrificed prepared for sterile autopsy and brain stems and cords harvested

Pooled as 5 mice = LOT XXIV

and frozen solid CO₂ immediately

DAP

	1	2	3
LOT XXIV	0	0	0

AUG 10 1949

Four of five mice found paralyzed today sacrificed + prepared for sterile autopsy. Brain stems and cords harvested

Pooled as 4 mice = LOT XXV

and frozen immediately in solid CO₂

DAP

	1	2	3
LOT XXV	0	0	0

AUG 11 1949

Three mice found paralyzed today sacrificed, prepared for sterile autopsy and brain stems & cords harvested

Pooled as 3 mice - Lot XXVI

LOT XXVI

1	2	3
0	0	0

and frozen in solid CO_2 immediately

Four mice found paralyzed today sacrificed, prepared for sterile autopsy and brain stems & cords harvested.

AUG 12 1949

BAP

Pooled as 4 mice - Lot XXVII

LOT XXVII

1	2	3
0	0	0

And frozen in solid CO_2 immediately.

Remaining animals discarded.

AUG 13 1949

Brain stems and cords of 98 mice, who were sacrificed when showing paralytic manifestations, weighed exactly 70 gm.

These were blunted @ 180 cc saline in Waring blender for 2 min at low and 2 min. at high speed. These were allowed to stand @ 15 min in refrigerator.

Material was then dispensed in large centrifuge tubes and spun at low speed for 10 min. Supernatant was pooled, cultured and ampouled.

BAP

000

12 amps. = 3 cc ✓
 55 amps. = 2 cc ✓
 1 amp. = 1 cc ✓ *red*

Total 147 cc of 10% MB in NaCl.
 and were frozen solid CO_2 stat.

Titer = 10^{-38}

Stored in 2 large boxes in 3rd Dry ice refrigerator.

Titer of amp. tested 11/11/49 - 3.5 at 28 days
 3.7 at 35 " } without 10^{-5} *hemolysis*

Titration

Virus

Pool A of

16 Aug 49.

Material: Pool blinded, unfocused + frozen 16 Aug 49.

Spec: Max fed 3wk albino ♀

Procedure: Virus solutions made from freshly thawed pool.

0.03 cc 1cc to each mouse

VIRUS	DILUTION	Box	M.	DAY																															MORT.	LD ₅₀	
				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			
		1	1	-	-	D																															
			2	-	-	D																															
			3	-	-	D																															
			4	-	-	P	P	P	P	P	P	D																									
			5	-	-	-	P	P	P	D																											
			6	-	-	-	-	P	P	P	D																										
			7	-	-	-	-	-	-	-	-	P	D																								
			8	-	-	-	-	-	-	-	-	P	P	D																							
			9	-	-	-	-	-	-	-	-	-	P	P	D																						
			10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		2	1	-	D																																
			2	-	-	D																															
			3	-	-	-	D																														
			4	-	-	-	-	D																													
			5	-	-	-	-	-	P	P	P	P	D																								
			6	-	-	-	-	-	-	-	-	P	D																								
			7	-	-	-	-	-	-	-	-	-	P	P	D																						
			8	-	-	-	-	-	-	-	-	-	-	-	-	-	P	D																			
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10/10

9/10

29/30

10/10

17 Aug 49

Views	Duration	Box	M	Day	LD ₅₀
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		5	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	8/10	3.8 10
	10-3	6	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	9/10	26/30

Virus	Dilution	Box	M	Day																															Incubation	LD ₅₀
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5/10

4/10
-3.8
10

12/29

3/4

10-4

Virus	Dilution	Box	M	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	Mortality	LD ₅₀
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Pool IV (8/16/49) Titration of 8/17/49 - 3.8
 " of 11/11/49 10 - 3.7

ON AUG. 25 - 30 days after inoculation

DR. A. B. Sabin

c/o DR. Pierre Lépine

INSTITUT PASTEUR

PLASMA ACID TOLERANCE TEST

3-21-44

CONTROLS - (PREVIOUS TEST OF THE

ACTIVITY OF THE LOT OF DRUG (Eldospidol 028) in normal mice

Box	M	GM	mg Base to saline & Sol.	c.c. of Sol.	SALINE	Symptoms	DEAD
A	1	18	1.8	0.9	1.1 cc	3'	5'
	2	24	2.4	1.2	0.80	3'	5'
	3	34	3.4	1.7	0.30	4'	6'
	4	34	3.4	1.7	0.30	4'	6'
	5	33	3.3	1.65	0.40	3'	6'

a Sol.

10/10 dead within 6 minutes - Ataxia, convulsions, prostration

B 50mg

1	27	1.35	1.35	0.65	8'	70'
2	37	1.15	1.85	0.15	10'	
3	35	1.75	1.75	0.25	9'	
4	35	1.75	1.75	0.25	8'	11'
5	36	1.80	1.80	0.20	10'	

3/2

Ataxia, convulsions, prostration

C 25mg

1	41	1.025	1.02	0.98		
2	35	1.875	0.89	0.13	10'	
3	31	0.775	0.77	0.23		
4	39	0.975	0.97	0.03		
5	32	0.800	0.80	1.20	10'	

Ataxia 10'

Ataxia 15'

D 12.5mg

1	33	0.402	0.40	1.60		
2	36	0.538	0.53	1.47		
3	32	0.362	0.36	1.64		
4	38	0.462	0.46	1.54		
5	36	0.402	0.40	1.60		

E 0.25mg

1	33	0.206	0.21	1.79		
2	36	0.225	0.22	1.78		
3	32	0.200	0.20	1.80		
4	38	0.235	0.24	1.76		
5	36	0.225	0.22	1.78		

Solutions: A : 2 mg base / c.c. - 37.8 mg DRUG in 10 c.c. SAL.

B : 1 mg base / c.c. - 37.8 mg DRUG in 20 c.c. SAL.

RESUMÉ

	A	B	C	D	E
Symptoms	5/5	5/5	5/5	5/5	5/5
Dead	5/5	2/5	5/5	5/5	5/5

8/23 - B - 2 - Martin G. K. Kalmann
Barbara Kalmann
B3+5 - Anne E.

C - S. O. K.

D - S. O. K.

E - S. O. K.

(Ex 500 mg. B/K diet) Thamara Frost
 Single dose of: mg B/K₂ i.p.
 a sol. sol. simp. dead 5-22-49

A 100 mg.

1	26	2.6	1.3	4'	7'	
2	26	2.6	1.3	4	7'	
3	28	2.8	1.4	6'	8'	all dead within 10'
4	27	2.7	1.3	7'	9'	- Ataxia
5	27	2.7	1.3	7'	10'	- Convulsions
			<u>6.6</u>			- Prostration
						- Cyanosis

3/24 3:50 PM

1	28	1.68	0.84	14'		
2	24	1.44	0.72	7'		
3	24	1.44	0.72	14'	163'	
4	29	1.74	0.87	7'		
5	26	1.86	0.93	10'	223'	

B 60 mg.

3/25 3:45 PM

1	26	1.56	0.78	12'		
2	20	1.20	0.60	9'	90'	
3	28	1.68	0.84	14'		18 hrs
4	23	1.38	0.69	14'	90'	
5	22	1.32	0.66	12'		24 hrs
6	28	1.68	0.84	8'		18 hrs

C 60 mg.

3/26 3:26 3/27 3:27
 500 mg. 10 AM 4 PM 8 AM
 18 hrs

RESUME

A
 100 mg.
 simp. 5/5
 dead: 5/5
 10'

B
 60 mg.
 5/5
 5/5
 22'

C
 60 mg.
 5/5
 5/5
 21 hrs

x sol. 2 mg base / c.c.
 p sol.

Ex 250 mg base/Kr²⁰

Single dose of ~~100~~ 60 mg B/K i.p. 3/22/49

Box M GM mg B. a.sol. SALINE

A
60 mg

1	24	= 2.4	= 1.1	+ 0.8
2	24	= 2.4	= 1.1	+ 0.8
3	22	= 2.2	= 1.1	+ 0.9
4	28	= 2.8	= 1.4	+ 0.6
5	28	= 2.8	= 1.4	+ 0.6

NOT DONE

6.3

1.44	= 0.72	8'	120'
1.44	= 0.72	8'	90'
1.32	= 0.66	12'	105' - 5th. D
1.68	= 0.84	7'	105'
1.68	= 0.84	6'	29'

Single dose of 60 mg B/K i.p. Dead 3/25 3/29

B
60 mg

1	25	= 1.5	= 0.75
2	35	= 2.1	= 1.55
3	25	= 1.5	= 0.75
4	31	= 1.86	= 0.93
5	34	= 2.04	= 1.02

6'	14'
5'	12'
8'	9'
9'	9'
5'	

C
60 mg

1	30	= 1.80	= 0.90
2	33	= 1.98	= 0.99
3	33	= 1.98	= 0.99
4	35	= 2.10	= 1.05
5	27	= 1.62	= 0.81

4'	21'
6'	105'
10'	14'
8'	30'
6'	20'

D
60 mg

1	31	= 1.86	= 0.93
2	30	= 1.80	= 0.90
3	29	= 1.74	= 0.87
4	28	= 1.68	= 0.84
5	28	= 1.68	= 0.84

6'	35'
6'	42'
9'	19'
8'	
7'	90' D 3/28 AM.

E
60 mg

1	33	= 1.98	= 0.99
2	26	= 1.56	= 0.78
3	29	= 1.74	= 0.87
4	29	= 1.74	= 0.87
5	29	= 1.74	= 0.87
6	28	= 1.68	= 0.84

9	60'
7	35'
11	28'
7'	80'
6'	90'
9'	85'

RESUME

A	B	C	D	E
60	60	60	60	60
5/5 - 12'	5/5 - 9'	5/5 - 10'	5/5 - 9'	5/5 - 11'
4/5 (105')	4/5 - 14'	5/5	4/5 - 90'	5/5 - 90'
15:30 hrs	25:30 hrs	10:01	15:28 hrs	

α Pol: 2 mg Base/a.c.

PLASMOCID TOLERANCE TEST

CONTROL 5

Intraperitoneal dose of: 100 mg Baekli's i.p.s.f.

Box	M.	Wt (Gm)	mg. Baekli's	Alb. Solution	SALINE	Symptoms	Dead
A <u>150 mg</u>	1	43	4.3	2.15	-	3'	5'
	2	38	3.8	1.9	-	5'	8'
	3	41	4.1	2.05	-	7'	10'
	4	42	4.2	2.1	-	7'	10'
	5	40	4.0	2.0	-	8	10'
							all dead within 10'
							1 - Ataxia
							2 - Convulsions
							3 - Prostration
							4 - Cyanosis
							5 - Exophthalmos
							6 - Tongue
B <u>75 mg</u>	1	22	1.65	0.8	1.2	6	15'
	2	26	1.95	0.97	1.1	7	65'
	3	29	2.175	1.1	0.9	6 1/2	10'
	4	26	1.95	0.97	1.1	6	11'
	5	23	0.725	0.86	1.2	7	85'
							Ataxia, convulsions, prostration, cyanosis
							+ Exophthalmos "
							+ Exophthalmos "
C <u>60 mg</u>	1	31	1.86	0.93	1.1	4'	96'
	2	24	1.44	0.72	1.3	4'	86'
	3	23	1.38	0.69	1.3	8'	98'
	4	21	1.26	0.63	1.4	7'	86'
	5	20	1.2	0.60	1.4	8	86'
							1-2-3-4-5 + tongue
							1-3-4-5 + tongue
							1-2-3-4-5 + tongue
							3/24 mm: still alive, O.K.
							1-3-4
D	1	38					
	2	37					
	3	37					
	4	34					
	5	40					
E	1	25					
	2	21					
	3	27					
	4	23					
	5	35					

RESUME

A	B	C	D	E
100 mg	75 mg			
Symp: 10/10	10/10	5/5		
Dead: 10/10	10/10	4/5		
10'	85'	95'		
A. Solution: 2 mg 12/c.c.				

Effect of Various 8-Aminoquinoline Compounds on Experimental Polio myelitis in ~~But~~ Monkeys

GROUP	Total Amt if Base/ Aluminum salt	No. of Monkeys	Per cent Paralyzed or Dead with Polio on										Per cent no Polio
			3	4	5	6	7	8	9	10	11	12	13
CONTROLS	None	20	0	0	15	20	20	20	15	5	5	—	0
PLASMOCID 3-8.5mg		8	0	0	0	75	25						0
ISOPRASNOCID 44-192		20	0	0	0	10	10	15	0	5	10	0	45
ISOPRASNOCID 1-192w + Aqueous Extract		5	0	0	0	0	0	0	20	20	40	20	0
PENTAMINE (Gentamicin)	153-216	12	0	33	17	42	8						0
Methyl Plasmoicid	176-184	3	0	0	67	33							0
Controls	None	8	0	0	0	12.5	50	12.5	0				0

11 monkeys with Kryptosporid
which had Polio.

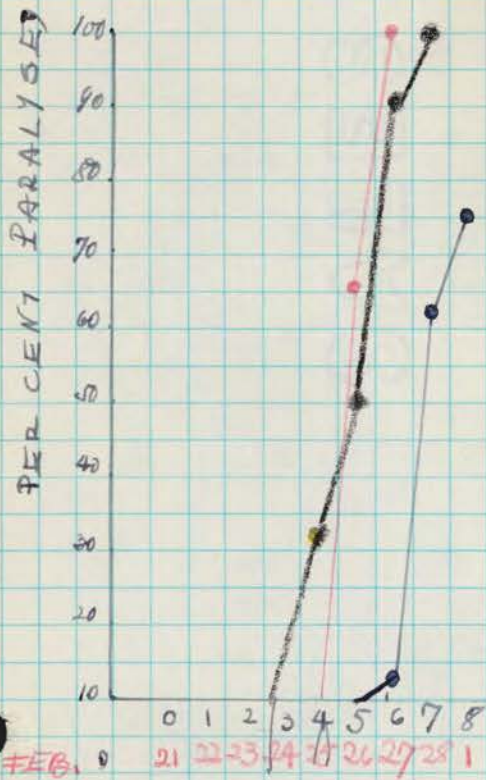
6, 7, 8, 10, 6, 11, 11, 7, 8, 8, 13

<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>
10	10	15	0	5	10		5

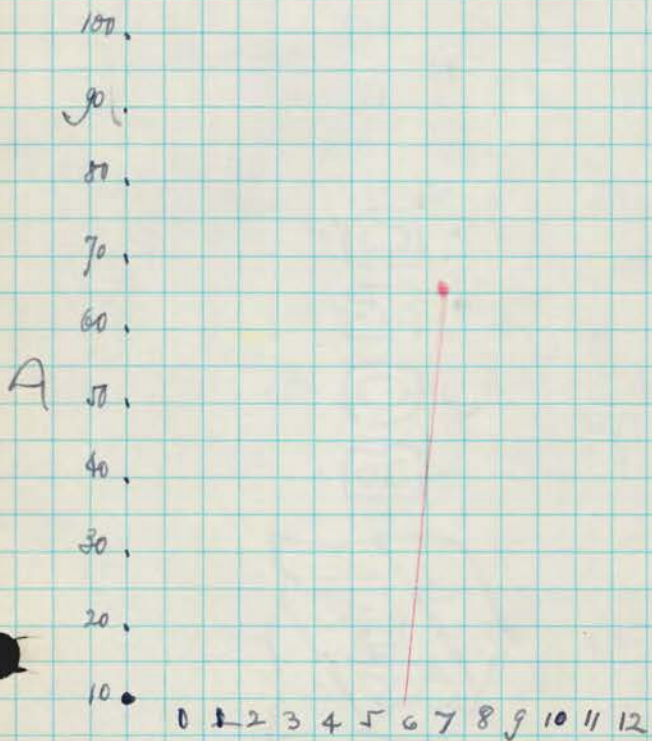
16 mg + Aqueous Penicillin

11, 11, 9, 10, 12

Exp: 2-17-49



METHYL PLASMODIUM: 8 MONKEYS
PENTAMIDINE: 12 MONKEYS
 CONTROLS: 8 MONKEYS



	4	5	6	7	8	9	10	11
METPLASMOCID	-	666	100					
PENTAGUINE	16.6 (2)	50 4	91.6 11	100 12				
CONTROLS	-	-	125	50	75	75	75	

Pentaguine

1256 -	P ₆	D ₉
1257 -	P ₆	D ₈
1258 -	P ₄ ?	D ₅
1259 -	P ₅	D ₆
1260 -	P ₅	D ₇
1261 -	P ₇	
1262 -	P ₆ ?	D ₇
1263 -	P ₆	D ₇
1264 -	P ₆	D ₈
1265 -	P ₄	D ₆
1266 -	P ₄ ?	D ₆
1267 -	P ₄ ?	D ₅

4	5	6	7
$\frac{4}{12}$	$\frac{2}{12}$	$\frac{5}{12}$	$\frac{1}{12}$
33.3	16.6		8.3

Methyl Plasmodium		
1249 -	P ₅	D ₇
1251 -	P ₆	
1253 -	P ₅	D ₇

Controls	
1240 -	P ₇
1241 -	
1242 -	P ₈
1243 -	P ₇
1244 -	P ₇
1245 -	P ₆
1246 -	P ₇
1247 -	