

NICE
i.p. PLASM
c1a III

Effect of Various Amounts of Plasmasid in Mice

BY INTRAPERITONEAL ROUTE

DRUG - Stock Solution - $379 \text{ mg}/100 \text{ cc} = 2 \text{ mg base/cc}$

Prepare solution in physiologic saline 189 mg ad 50 cc .
and filter through Berkfeld "V" filter

GROUPS:

A - 10 mice - 2 mg. base/day - 0.5 cc bid. of 2 mg. stock sol.

B - 10 " - 1 mg. " / " - 0.5 cc " of 1 mg " "

C - 10 " - 0.5 mg " / " - 0.5 cc " of 0.5 mg " "

D - 10 " - 0.25 " / " - 0.5 cc " of 0.25 mg " "

E - 10 " - ~~saline~~ none - $0.5 \text{ cc saline bid.}$

Mice - Maxfield albino - approximately 10 Gm. at beginning of experiment

Therefore the dosages will represent approximately

$200 \text{ mg. base/kilo/day}$, 100 mg , 50 mg , and 25 mg/kilo/day

Preparation of Solutions - The drug will be kept as 2 mg base/cc in saline in the refrigerator. 5 cc will be needed for each inoculation for 10 mice

Before inoculations prepare following:

for group B - 1 mg. base	-	$3 \text{ cc stock} + 3 \text{ cc saline}$	= 0.5 cc = 1 mg.
" " C - 0.5 mg "	-	$1.5 \text{ cc " + 4.5 cc "}$	= $0.5 \text{ cc} = 0.5 \text{ mg}$
" " D - 0.25 mg "	-	$0.75 \text{ cc " + 5.25 cc "}$	= $1 \text{ cc} = 0.25 \text{ mg}$

Inoculations - Intraperitoneally at approximately 9 AM and 5 P.M.

OBSERVATIONS - Each group of 10 mice will be weighed daily before 9 A.M. and deaths or ~~signs~~ abnormal signs recorded after delivery by Maxfield

AUG 30 1948

- Mice weighed but drug not given. Allowed to hydrate & feed.

AUG 31 1948

- Drug started.

PLASMACID GROUP A - 2mg base/day - 0.5cc i.p. bid

8/31
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑩

1	90	CNS
2	90	CNS
3	95	"
4	9	"
5	95	"
6	85	"
7	9	"
8	9	"
9	95	"
10	9	"
<hr/>		
Total weight	910	103
Average/mouse	91	

AUG 31 1948 - All mice in this group developed convulsions in 2 to 3 minutes after inoculation and with one exception were dead in about 5 min. The last mouse stopped convulsing in about one hour and except for pilomotor reaction appeared well. At about 2 hours there suddenly appeared a slowing of respiration and the mouse died.

PLASMACID GROUP B - 1mg base/day - 0.5cc ip bid

8/31
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑩

1	9	W	D
2	95	T	D
3	85	E	D
y. head	4	-	Tr. Tr. PK - 2.A on 9/2
5	8.5	-	Tr. D
6	9	PP	
7	9	PP	
8	9	D	
9	9	D	
10	9	CNS	
<hr/>			
Total Weight	895	103	
Average/mouse	89.5	10	9 8

PLASMACID GROUP C. 0.5 mg. base/day - 0.5 c.c. i.p. bid.

8/31
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

1	95	T	D													
2	85	T	CNS	K - 2.A on 9/2												
3	9	T	D													
4	85	E		E												
5	9	W		D												
6	9	-		E												
7	9	-		E												
8	85	PP														
9	9	PP														
10	85	PP														
<hr/>																
Total weight	885	101			33 1/4 23 1/3	20 22 1/2	23	25	26	26	27	28	29	30	31	
Average/mouse	88.5	10			8 7	11	11.5	12	13	160	135	14	14.5	15	15.5	

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PLASMACID GROUP D - 0.25mg base/day - 0.5cc ip - bid

	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	0	0	±	±												
	9	=	D	D												
y. head	3	=		D												
y. tail	4	=	E	E	-	-	-	-	-	-	-	-	-	-	-	-
y. back	5	=	E	E	-	-	-	-	-	-	-	-	-	-	-	-
	6	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total weight	88	102		69 ⁷ / ₇	69 ⁷ / ₇	79 ⁷ / ₇	82 ⁷ / ₇	87 ⁷ / ₇	95 ⁷ / ₇	100 ⁷ / ₇	104 ⁷ / ₇	108 ⁷ / ₇	114	118	122	128
Average/mouse	8.8	10	9 ₉	10	10	11	11.7	12.4	13.5	14.2	14.9	14.4	16.2	16.8	17.4	17.5

CONTROL GROUP "E" - No drug - Saline 0.5cc ip - bid

	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓↓	↓		
	8.5	=	-	-	-	-	-	-	-	-	-	-	-	D	Autopsy: No blood. to.	
	9	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8.5	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8.5	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9.5	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8.5	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8.5	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Sept. 2 - Killed and put in Z.-A. for control													
Total weight	88	10.3		107	107	107	107	107	107	107	107	107	107	107	107	107
Average/mouse	8.8	10.3	10	11.4	11.5	12.4	13.1	13.6	14.3	14.7	14.4	14.4	15.3	16	16.2	16.6

Aug. 31 - Second dose of drug given only to Group D

Sept. 1 - No drug given to any group

(See other side for observations)

AUG 31 1948

Group A - Single dose of 1mg. base/10 gm. mouse or 100mg/kilo
killed all mice

Group B - Single dose - 50mg/kilo

~~Two~~ One of 10 mice died in convulsions within few minutes. At least 5 of remaining mice were ataxic or convulsive for about 30 minutes after inoculation and then recovered.

Group C - Single dose - 25mg/kilo

2 of 10 mice died in convulsions. Others remained well. One more found dead 5 hrs. after inoc.

Group D - Single dose - 12.5 mg/kilo

All 10 mice remained well

GROUP B - About 6 hours after inoculation (4 PM)

2 found dead - in status post convulsionem - stiff with extremities in extension.

1 mouse - showed almost complete flaccid paralysis of post. extremities, then ant. extremities, loss of bladder control - after 10 to 15 min. of this - stopped breathing & died without convulsion.

1 mouse - loss of corneal reflex, partial paralysis of extremities and loss of bladder control. After 10-15 min. suddenly stopped breathing & died without convulsion.

Mouse 1 - y. mark on head - weak extremities (fell off box cover) hair erect; respiration rapid; does not ^{move} _{about}

Mouse 2 - y. tail - hair somewhat erect; loss of blink reflex on left side only. Rapid breathing; ^{cannot move tongue} _{which sticks out.}

Mouse 3 - y. back - O.K. except blink reflex poor - cannot close eye-lids.

Remaining two mice also appear sick with ruffled hair