			r reminary i		- J				
Viruses				E1–1–Per- drau		Le Fevr	е ((-	···₩ ,,	
Ι.	I. Rabbits inoculated with original virus			7		9		5	21
Fatalities		Number of deaths Period of survival (days)		$7\\3-64$		6 9–54		5 3–9	18
		Paralysis         Histological       Not completed         examination       Negative         of brain       Encephalitis		$\begin{array}{c}1\\0\\6\\1\end{array}$		$egin{array}{c} 1 \\ 0 \\ 1 \end{array}$		5 1 3 1(?)	
						5			
II.		rabbits bitten by potentially infected		Exp. 1	Exp. 2	Exp. 1	Exp. 2	16	97
mos		luitoes		6	33	15	<b>27</b>		
		Number of deaths Period of survival (days)		$6 \\ 15-50$	$19 \\ 4-55$	$\begin{array}{c} 14 \\ 11-50 \end{array}$	$24 \\ 5-64$	$11 \\ 5-71$	74
Fata	lities	Paralysis		$^{2}$	0	5	${0 \\ 1}$ .	0	7
		Histological examination of brain	Not completed Negative Encephalitis	2 3 1	$3 \\ 14 \\ 2$	$egin{array}{c} 10 \\ 2 \\ 2 \end{array}$	20	$7 \\ 3 \\ 1$	$\begin{array}{c} 23 \\ 42 \\ 9 \end{array}$
TTT.	Rabbits		brain material from	L					
the test rabbits (II)				15	19	37	24	9	104
		Number of deaths Period of survival (days)		$9 \\ 10-76$	$10 \\ 2-11$	$28 \\ 6-71$	$\begin{array}{c} 19\\ 2-24 \end{array}$	3 3–33	69
Fatalities		Paralysis		$^{2}$	0	6	2	1	11
		Histological		1	6	22	8	1	38
		examination of brain	Negative Encephalitis	${6 \atop 2}$	$3 \\ 1$	$5 \\ 1$	$10 \\ 1$	$1 \\ 1$	$\begin{array}{c} 25 \\ 6 \end{array}$

## TABLE 1 Results of Transmission Experiments with Neurotropic Viruses Preliminary Summary

cally the sections of brain and spinal cord were negative. Specimens of blood collected before death and suspensions of brain have been inoculated into normal rabbits, some of which have died and are now being studied.

In conclusion we wish to reemphasize the fact that the studies outlined in this report are not yet complete; and that additional work will be necessary to determine whether or not the tissues of those animals which died after being bitten by the test mosquitoes contain the specific viruses with which the respective experiments were initiated. It is also considered possible that, as in all extensive experiments with rabbits, some of the animals may have died of unrecognized extraneous causes. However, a large number of untreated control rabbits were observed during this period and only a few of these died with diarrhea, none of them showing paralysis. *Encephalitozoon* cuniculi was not found in the brain sections of any of the experimental animals.

As indicated in Table 1, irregular results were obtained with the rabbits of Group II which were bitten by the test mosquitoes, and this was also true of the animals in Group III which had received brain inoculations from the Group II rabbits. However, taken as a whole, they do not differ greatly from the results obtained in the rabbits of Group I, which were inoculated directly with the original viruses.

In view of the incidence of death and paralysis among the experimental animals, and particularly because of the nine rabbits and one monkey which showed the histological lesions of encephalitis after being bitten by the mosquitoes, we feel that the work already done strongly indicates that the viruses used have been transmitted by *A. aegypti*, but that further investigation is required to furnish absolute proof.

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HATFIELD, H. STAFFORD. The Inventor and His World. Pp. v + 269. Dutton. \$2.40.

<sup>2</sup> With the technical assistance of Staff Sergeants George F. Luippold and Jesse F. Rhodes, Medical Department, U. S. Army.