

Yellow Fever virus Interference = Rift Valley Fever OCT 20 1950

PURPOSE - In previous tests mice, susceptible to Rift Valley fever virus intraperitoneally, were protected when IP inoculation of yellow fever virus shortly preceded IP inoculation of an otherwise lethal dose of Rift Valley fever virus.

The purpose of this test is to determine whether an interference phenomenon can <sup>still</sup> be observed in mice resistant to yellow fever (F<sub>1</sub> PRI) + inoculated with this virus 24 days previously (I. Ch.) when challenged (I. Ch.) with Rift Valley fever virus.

Western Equine Encephalitis which ~~the~~ yellow fever shows no interference is used as a control.

VIRUSES - Rift Valley Fever Virus of 10/13/50 - 20% in NRS-B-4-7

Western Equine Encephalitis Virus of 3/29/50 - 10% in 50% RSS-B-8-9

Rift Valley Fever inoculated  $10^{-4}$  in ~~the~~ animals.

Western Equine inoculated  $10^{-6}$

Dilutions in 10% RSS

MICE - F<sub>1</sub> generation mice from crossing yellow fever susceptible Swiss female = resistant PRI male. These mice from 8/29/50 or 9/1/50 + inoculated = 17-D yellow fever  $10^{-4}$  on 9/26/50.

Normal PRI mice from @ the same time as the above (@ 9/1/50).

YELLOW  
FEVER  
INTER-  
FERENCE

F<sub>1</sub> gen. MICE  
INOC. = YELLOW FEVER

RIFT VALLEY  
FEVER  $10^{-4}$

VIRUS CONT.  
NORMAL PRI MICE

	1	2	3	4	5	6	7
RIFT VALLEY	1 - D						
	2 - D						
	3 - D						
	4 - D						
$10^{-4}$	5 - (NS) D						
	6 - (NS) D						
	7 - ? D						
	8 - ? D						
	9 - (NS) D						

	1	2	3	4	5	6	7
RIFT VALLEY	1 - D						
	2 - D						
	3 - D						
	4 - D						
$10^{-4}$	5 - D						
	6 - (NS) D						
	7 - (NS) D						
	8 - (NS) D						
	9 - ? D						
	10 - ? D						

