

TABLE 30.—*Serological results found in individuals who were previously immunized with epidemic typhus vaccine and who subsequently contracted murine typhus*

Case	Day of disease	Typhus vaccine	Serological results						Date of onset	Where infected	Severity of infection
			Complement fixation		Rickettsial agglutination		Well-Felix ¹				
			Epi- demic	Mu- rine	Epi- demic	Mu- rine	O X-19	O X-2			
A-----	59	November 1943.	1,280	320	80	640	80	80	1 Jan. 1944	Waycross, Ga.	Moderately severe.
	90		1,280	320	160	1,280	0	0			
S-----	21	September 1942.	640	320	80	1,280	2,560	0	20 Nov. 1944	Fort Benning, Ga.	Do.
	58		320	320	80	640	640	0			
Si-----	27	27 May 1944.	A/C	A/C	2,560	10,240	160	40	19 July 1944	Louisiana-----	Severe.
	159		320	160	320	2,560	160	40			
P-----	22	September 1944.	1,280	640	320	640	160	0	17 Dec. 1944	Camp Gordon, Ga.	Do.
	50		1,280	640	320	320	0	0			
B-----	18	November 1944.	160	40	5,120	10,240	640	0	23 Nov. 1944	Camp Shanks, N.Y.	Moderately severe.
	21		160	160	5,120	10,240	320	0			
Be-----	26	August 1944.	160	160	5,120	10,240	0	0	25 Nov. 1944	Birmingham, Ala.	Do.
	31		160	160	5,120	10,240	0	0			
Ben-----	18	October 1944.	640	160	5,120	10,240	1,280	0	24 Oct. 1944	Tampa, Fla.	Mild.
	70		320	160	160	1,280	160	0			
K-----	38	September 1944.	80	80	1,280	5,120	640	40	18 Sept. 1944.	Camp Miles Standish, Mass.	Do.
Ba-----	30	September 1944.	160	80	5,120	10,240	80	0	15 Dec. 1944	Robins Field, Ga.	Do.
F-----	15	December 1944.	80	10	1,280	5,120	640	320	2 Jan. 1945	Austin, Tex.	Moderately severe.
T-----	44	January 1944.	80	80	640	5,120	640	0	14 Jan. 1945	San Antonio, Tex.	Mild.
Com-----	55	July 1944.	80	40	160	2,560	1,280	40	12 July 1944	Hunter Field, Ga.	Do.
	45	1,280	640	1,280	5,120	1,280	160				
	14	August 1943.	320	320	160	640	160	0			
	23		A/C	A/C	1,280	2,560	160	40			
	24		Recall dose.	320	320	1,280	5,120	80			
30	May 1944.		320	160	320	2,560	40	0			
	37		320	160	320	2,560	0	0			

¹ Cases S, P, B, Ba, and T showed a rise in OX-19 titer when serum specimens were examined during the febrile period and early convalescence while the other cases showed high titers. These examinations were made in the hospitals where the patients were treated. It should be observed that the specimens which were available for this study were frequently obtained late in convalescence.

Source: Plotz, H., and Wertman, K.: Modification of Serological Response to Infection With Murine Typhus by Previous Immunization With Epidemic Typhus Vaccine. Proc. Soc. Exper. Biol. & Med. 59: 248-251, June 1945.