

TABLE 2. Arbovirus Neutralizing Antibody Positivity^a Among Different Papua New Guinea Military Participants Before 2023

Virus	Total Positivity					Positivity by Age Group									
	All Samples (n=185)					20–29 (n=50)		30–39 (n=72)		40–49 (n=25)		≥50 (n=38)		Chi Square	
	No.	%	Mean NAb Titer	95% CI	No.	%	No.	%	No.	%	No.	%	No.	%	p-value
Flavivirus															
DENV group	DENV-1	175	94.6	303.9	271.0–336.8	46	92.0	68	94.4	24	96.0	37	97.4	0.998	
	DENV-2	172	93.0	362.9	327.0–398.8	46	92.0	66	91.7	23	92.0	37	97.4	0.997	
	DENV-3	176	95.1	226.5	195.8–257.2	46	92.0	67	93.1	25	100	38	100	0.122	
	DENV-4	57	31.4	79.0	55.7–102.2	12	24.0	26	36.1	8	32.0	12	31.6	0.782	
JEV group	JEV	115	62.2	126.3	93.4–159.2	27	54.0	48	66.7	17	68.0	23	60.5	0.9	
	WNV	11	5.9	30.9	14.6–47.2	2	4.0	4	5.6	0	0.0	5	13.2	N.D	
	MVEV	73	39.5	46.6	34.9–58.3	22	44.0	26	36.1	9	36.0	15	39.5	0.944	
Spondweni group	ZIKV	161	87.0	265.1	228.2–301.9	41	82.0	62	86.1	24	96.0	34	89.5	0.215	
Alphavirus															
	RRV	82	44.3	193.9	146.8–241.0	18	36.0	30	41.7	14	56.0	20	52.6	0.673	
	CHIKV	62	33.5	89.2	52.5–125.9	15	30.0	20	27.8	14	56.0	13	34.2	0.373	
	BFV	20	10.8	202.5	86.6–318.4	4	8.0	7	9.7	1	4.0	8	21.1	N.D.	

Abbreviations: n, number; No., number; NAb, Neutralizing antibody; CI, confidence interval; DENV, dengue virus; JEV, Japanese encephalitis virus; WNV, West Nile virus; N.D., not done; MVEV, Murray Valley encephalitis virus; ZIKV, Zika virus; RRV, Ross River virus; CHIKV, chikungunya virus; BFV, Bahmeh Forest virus.

^aNAb titer ≥20 was considered 'positive' for flaviviruses; NAb titer ≥10 was considered 'positive' for alphaviruses.