

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.	%	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, Bahmah Forest virus.

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