

Additional file 1:

Title: The prevalence and density of asymptomatic *Plasmodium falciparum* infections among children and adults in three communities of western Kenya

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Table S1: Primer and Probe Sequences

assay	primer/probe name	sequence	reference
varATS RT qPCR	varATS For	5' CCCATACACAACCAAYTGGGA 3'	Hofmann et al. 2015 [21]
	varATS Rev	5' TTCGCACATATCTCTATGTCTATCT 3'	Hofmann et al. 2015 [21]
multiplex RT-qPCR	Pfs230p_2_F	5' TTGCCTGTTACCTTATTGTCAAG 3'	
	Pfs230p_2_R	5' CCGTCGACATCTTCAGCAT 3'	
	Pfs230p_2_IN	6FAM-CCAGGCTGATGAAGACATCGGG-QSY	
	Pfs25 For	5' GAAATCCCGTTTCATACGCTTG 3'	Wampfler et al. 2013 [28]
	qPCR Pfs25 Rev	5' AGTTTTAACAGGATTGCTTGTATCTAA 3'	Wampfler et al. 2013 [28]
	qPCR Pfs25_probe	VIC-TGTAAGAATGTAACCTTGTGGTAAC-QSY	adapted from Wampfler et al. 2013 [28]
	Pf3D7_ESP_F	5' TAGGTCAAGCACCTCCAGAA 3'	
	Pf3D7_ESP_R	5' TCATTAGGGTCAAGTGCCTAA 3'	
	Pf3D7_ESP_IN	ABY-TGGTTCATTTCCCCAAGCAGGTG-QSY	

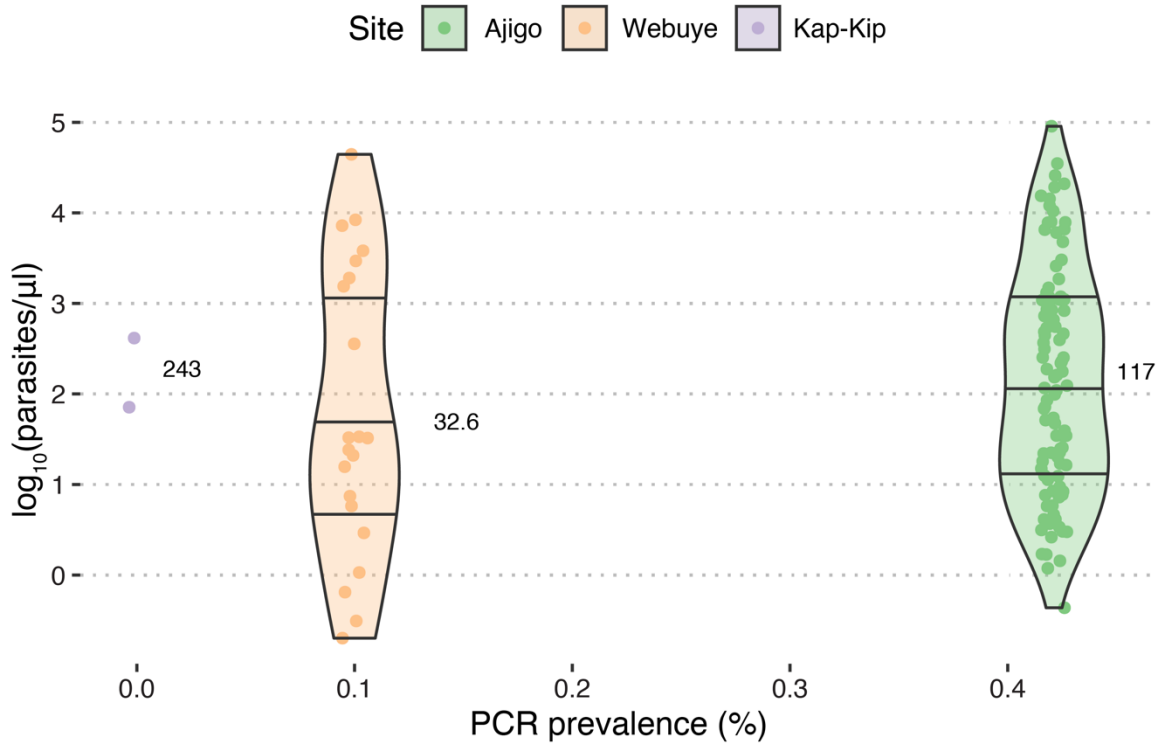


Figure S1. Relationship between parasite density and prevalence of PCR-detective asymptomatic *P. falciparum* infections by community. Median parasite density indicated to right of each violin plot.

Table S2: Multiple logistic regression to assess the risk of *varATS+* parasitemia

Variable	OR	95% CI	p-value	q-value
Female gender	0.72	0.45, 1.16	0.2	0.3
Age (reference: 11-15 years)				
0-1 year	1.45	0.20, 6.67	0.7	0.7
2-5 years	0.18	0.08, 0.39	<0.001	<0.001
6-10 years	0.46	0.24, 0.90	0.024	0.048
16-20 years	0.72	0.35, 1.49	0.4	0.5
21-85 years	0.30	0.15, 0.61	0.001	0.003
Recent ITN use (reference: no use)	0.69	0.37, 1.31	0.2	0.4
Recent travel (reference: no travel)	0.83	0.44, 1.54	0.6	0.6
Site (reference: Ajigo)				
Webuye	0.14	0.08, 0.24	<0.001	<0.001
Kap-Kip	0.00	0.00, 0.01	<0.001	<0.001

OR = odds ratio; CI = confidence interval; ITN = insecticide-treated bed net

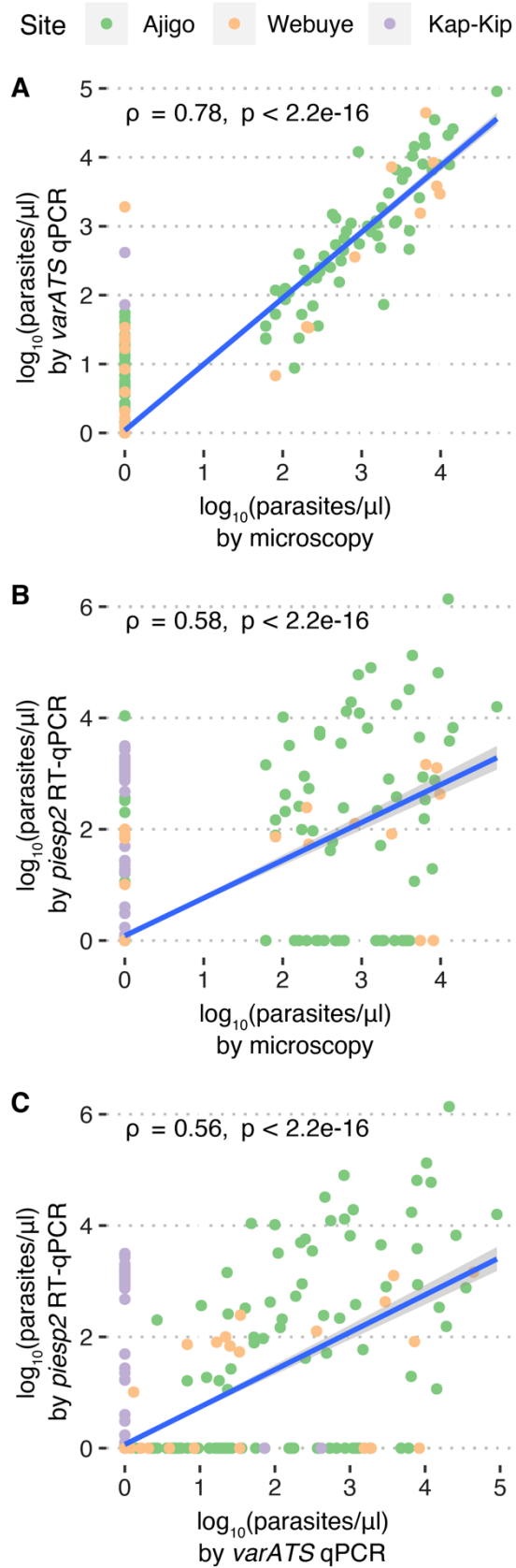


Figure S2. Correlation between parasite quantification assays. Spearman's rank correlation coefficients (ρ) were determined between parasite densities estimated by (A) *varATS* qPCR and microscopy, (B) *piesp2* RT-qPCR and microscopy, and (C) *piesp2* RT-qPCR and microscopy. Blue lines are best linear fit lines with 95% confidence intervals.