Target	Primer sequences (5′–3′)	Reaction conditions	Cycling parameters	Ref
pfldh	For: ACGATTTGGCTGGAGCAGAT Rev: TCTCTATTCCATTCT TTGTCACTCTTTC	300 nM primers 250 nM probe	50°C × 2 minutes 95°C × 10 minutes	10
	Probe: FAM-AGTAATAGTAACAGCTG GATTTACCAAGGCCCCA-TAMRA	Universal Probe Master mix (Roche, Indianapolis, IN) 1 or 4 µL template DNA 25 µL reaction volume	40 cycles of 95°C × 15 seconds, 60°C × 1 minute	
Plasmodium malariae	For: CAACTGCACGTCGTTAGACTTTG Rev: GCTGGTGTTACTGCCTTTGTC	500 nM primers SYBR Green Master mix (Roche) 2 µL template DNA 25 µL reaction volume	50°C × 2 minutes 95°C × 10 minutes 40 cycles of 95°C × 15 seconds, 60°C × 1 minutes Melt curve: 60–95°C, 1.6°C increments	11
Plasmodium ovale	For: GGKCTTGGTGTTCCCTTCA Rev: TGTGRGCATTTCCTAAAACG	500 nm primers SYBR Green Master mix (Roche) 2 µL template DNA 25 µL reaction volume	50°C × 2 minutes 95°C × 10 minutes 40 cycles of 95°C × 15 seconds, 60°C × 1 minute Melt curve: 60–95°C, 1.6°C increments	11
Plasmodium vivax	For: ACCCGTGACGTCTTCTTC Rev: GGTGCCCTTGCTGTTGTAC	500 nM primers SYBR Green Master mix (Roche) 2 µL template DNA 25 µL reaction volume	50°C × 2 minutes 95°C × 10 minutes 40 cycles of 95°C × 15 seconds, 60°C × 1 minute Melt curve: 60–95°C, 1.6°C increments	11
hrp2	For: ATTCCGCATTTAATAA TAACTTGTGTAGC Rev: ATGGCGTAGGCAATGTGTGG	400 nM primers HotStarTaq Master mix (Roche) 3 µL template DNA 25 µL reaction volume	95°C × 15 minutes 35 cycles of 94°C × 30 seconds, 59°C × 30 seconds, 72°C × 1 minute 72°C × 10 minutes	12
TARE-2	For: CTATGTTGCACTTA CATGCAYAAT Rev: TGACCTAAGAAGTA VAATAATGATGA	200 nM primers SYBR Green Master Mix (Roche) 4 µL template DNA 25 µL reaction volume	50°C × 2 minutes 95°C × 10 minutes 40 cycles of 95°C × 15 seconds, 60°C × 1 minute Melt curve: 60–95°C, 1.6°C increments	13

For = forward; *hrp2* = histidine-rich protein 2 gene; *pfldh* = falciparum-specific lactate dehydrogenase gene; Ref = reference; Rev = reverse; TARE-2 = telomere-associated repetitive element-2.

Covariate	Crude OR	95% CI	Adjusted OR*	95% CI	*P* value
Age < 5 years	1.57	1.04–2.36	1.61	1.09–2.38	0.02
Bed net use	1.22	0.73–2.03	1.11	0.65–1.89	0.70
Anemia	0.94	0.34–2.56	0.90	0.33–2.45	0.83

CI = confidence interval; OR = odds ratio.
*The following covariates were included in the models based on directed acyclic graphs as follows: 1) for age, by including hemoglobin and malaria treatment within the prior 2 weeks in the model; 2) for bed net use, by including electricity in the home and age in years; and 3) for anemia, by including gender, age in years, and bed net use.