Sensitivity, specificity, positive predictive value and negative predictive value of RDTs and microscopycompared with HVUSqPCR species detection (disaggregated by village)

		RDT									microscopy								
		qPCR pos RDT pos	qPCR pos RDT neg	qPCR neg RDT neg	qPCR neg RDT pos	Total	Sensitivity (95% C.I.)	Specificity (95% C.I.)	positive predictive value (95% C.I.)	negative predictive value (95% C.I.)	qPCR pos micro pos	qPCR pos micro neg	qPCR neg micro neg	qPCR neg micro pos	Total	Sensitivity (95% C.I.)	Specificity (95% C.I.)	positive predictive value (95% C.I.)	negative predictive value (95% C.I.)
Pf	All sites	96	120	4462	55	4733	44% (38 to 51%)	99% (98 to 99%)	64% (55 to 71%)	97% (97 to 98%)	66	144	4616	5	4827	33% (24 to 36%)	100% (99 to 100%)	93% (83 to 98%)	97% (96 to 97%)
	Cam	1	35	1411	0	1447	3% (0 to 15%)	100% (99 to 100%)	100% (3 to 100%)	98% (97 to 98%)	0	36	1410	1	1447	0% (0 to 10%)	100% (99 to 100%)	0% (0 to 10%)	98% (97 to 98%)
	TMBA	71	34	1241	37	1383	68% (58 to 76%)	97% (96 to 98%)	66% (56 to 75%)	97% (96 to 98%)	37	61	1418	1	1517	38% (28 to 48%)	100% (99 to 100%)	98% (97 to 98%)	96% (95 to 97%)
	Viet	24	51	1810	18	1903	32% (22 to 44%)	99% (98 to 100%)	57% (41 to 72%)	97% (96 to 98%)	25	47	1788	3	1863	38% (24 to 47%)	100% (99 to 100%)	89% (72 to 98%)	97% (97 to 98%)
non-PF	All sites	54	332	4332	15	4733	14% (11 to 18%)	100% (99 to 100%)	78% (67 to 87%)	93% (92 to 94%)	141	262	4411	13	4827	35% (30 to 40%)	100% (99 to 100%)	92% (86 to 95%)	94% (94 to 95%)
	Cam	0	52	1395	0	1447	0% (0 to 1%)	100% (93 to 100%)	na	96% (95 to 97%)	7	45	1395	0	1447	14% (6 to 26%)	100 (99 to 100%)	100 (59 to 100%)	97% (96 to 98%)
	TMBA	47	180	1153	3	1383	21% (16 to 27%)	100% (99 to 100%)	94% (84 to 99%)	87% (85 to 88%)	99	149	1264	5	1517	40% (34 to 46%)	100% (99 to 100%)	95% (89 to 98%	97% (96 to 98%)
	Viet	7	100	1784	12	1903	7% (3 to 13%)	100% (99 to 100%)	37% (16 to 62%)	95% (94 to 96%)	35	68	1752	8	1863	34 (25 to 44%)	100% (99 to 100%)	81% (67 to 92%)	96% (95 to 97%)
P. spp.	All sites	20	379	3740	46	4185	5% (3 to 8%)	99% (98 to 99%)	30% (20 to 43%)	91% (90 to 92%	13	391	3864	1	4269	3% (2 to 5%)	100% (99 to 100%)	93% (66 to 100%)	91% (90 to 92%)
	Cam	0	145	1218	0	1363	0% (0 to 0.3%)	100% (97 to 100%)	na	89% (88 to 91%)	0	145	1218	0	1363	0% (0 to 0.3%)	100% (97 to 100%)	na	89% (88 to 91%)
	TMBA	16	158	873	24	1071	9% (5 to 15%)	97% (96 to 98%)	40% (25 to 57%)	85% (82 to 87%)	6	175	1009	0	1190	3% (1 to 7%)	100% (99 to 100%)	100% (54 to 100%)	85% (83 to 87%)
	Viet	4	76	1649	22	1751	5% (1 to 12%)	99% (98 to 99%)	15% (4 to 35%)	96% (95 to 97%)	7	71	1637	1	1716	9% (4 to 18%)	100% (99 to 100%)	88% (47 to 100%)	96% (95 to 97%)

RDT=rapid diagnostic test, HVUSqPCR= high volume ultra-sensitive real time polymerase chain reaction
n= number of participants,No. pos=number of participants with a positive test result, Pf= *Plasmodium falciparum*, non-Pf= RDTs distinguish between P. falciparum, non-P.falciparum, and no infections, mixed= more than one *Plasmodium* species was identified Pv= *Plasmodium vivax*, P.spp. = *Plasmodium* species not identified
Light microscopy did not detect mixed infections