

Supplementary Table 1. Parasite counts by First Response™ (pLDH) results, for all samples (A) and pre-treatment samples (B).

A.

pLDH result, N(%)	Pre-treatment parasite density (parasites/μL)			Pre-treatment parasite density (parasites/μL)			Pre-treatment parasite density (parasites/μL)		
	<i>P. knowlesi</i> (N=129)	Median (IQR)	Range	<i>P. falciparum</i> (N=121)	Median (IQR)	Range	<i>P. vivax</i> (N=43)	Median (IQR)	Range
Negative	34 (26)	2321 (375 – 9752)	65 - 58,421	11 (9)	1698 (444 – 5126)	234 - 25,308	2 (5)	2800 (1700 – 3900)	1700 - 3900
1+	34 (26)	2840 (1596 - 13,197)	32 - 123,590	35 (29)	6858 (3366 - 19,230)	221 - 119,370	4 (9)	3867 (1496 - 5126)	72 - 5439
2+	17 (13)	8646 (5550 - 31,862)	930 - 139,793	17 (14)	11,466 (7196 - 21,760)	625 - 56,897	5 (12)	1890 (925 - 16,608)	858 - 17,670
3+	17 (13)	14,288 (5522 - 24,052)	1980 - 61,778	24 (20)	9486 (2994 - 22,230)	16 - 81,062	7 (16)	4694 (2928 - 10,463)	133 - 84,403
4+	24 (18)	202,963 (60,841 - 327,062)	13,680 - 584,015	30 (25)	64,357 (19,034 - 97,365)	5525 - 959,383	20 (47)	8052 (3884 - 15,483)	460 - 45,844
Total positive*	95 (74)	19,251 (4253 - 108,041)	32 - 584,015	110 (91)	14,660 (5611 - 52,451)	16 - 959,383	41 (95)	4938 (2920 - 12,927)	72 - 84,403
Sensitivity, % (95% CI)	74 (65-80)			91 (84-95)			95 (85-99)		

B.

pLDH result, N(%)	Pre-treatment parasite density (parasites/μL)			Pre-treatment parasite density (parasites/μL)			Pre-treatment parasite density (parasites/μL)		
	<i>P. knowlesi</i> (N=34)	Median (IQR)	Range	<i>P. falciparum</i> (N=42)	Median (IQR)	Range	<i>P. vivax</i> (N=12)	Median (IQR)	Range
Negative	4 (12)	301 (179 - 5699)	75 – 11,078	4 (10)	2307 (1545 - 3170)	1392 - 3425	0		
1+	9 (26)	1800 (1274 - 8537)	907 - 19,895	8 (19)	3251 (1418 - 5157)	431 - 10,626	1 (8)	72	
2+	6 (18)	5196 (1980 - 6450)	1574 - 14,056	5 (12)	10,500 (10,251 - 11,466)	7196 - 14,880	1 (8)	858	
3+	7 (21)	5678 (4412 - 14,287)	3823 - 21,700	10 (24)	10,235 (3990 - 30,188)	16 - 81,062	4 (33)	6841 (3074 - 47,433)	2928 - 84,403
4+	8 (24)	48,168 (22,889 - 288,528)	13,680 - 584,015	14 (33)	64,357 (36,738 - 78,789)	5525 - 135,435	4 (33)	6201 (3982 - 10,195)	3025 - 12,927
Total positive*	30 (88)	7493 (3823 - 19,895)	907 - 584,014	38 (90)	12,549 (5068 - 62,779)	16 - 135,435	12 (100)	4079 (2888 - 9,079)	72 - 84,403
Sensitivity, % (95% CI)	88 (73-95)			90 (78-96)			100 (76-100)		

* includes some results recorded only as “positive”

Supplementary Table 2. Parasite counts by ParaHIT™ (aldolase) results, for all samples (A) and pre-treatment samples (B).

A.

Aldolase result	<i>P. knowlesi</i> (N=96)	Pre-treatment parasite density (parasites/μL)		<i>P. falciparum</i> (N=84)	Pre-treatment parasite density (parasites/μL)		<i>P. vivax</i> (N=36)	Pre-treatment parasite density (parasites/μL)	
		Median (IQR)	Range		Median (IQR)	Range		Median (IQR)	Range
Negative	74 (77)	6556 (1755 - 25,876)	32 - 584,015	47 (56)	11,610 (5126 - 27,905)	234 - 959,383	16 (44)	4876 (2369 - 15,299)	72 - 46,849
1+	12 (13)	28546 (11,155 - 77,395)	4412 - 153,734	21 (25)	11,373 (5068 - 32,267)	16 - 97,365	15 (42)	3220 (858 - 4938)	133 - 16,608
2+	5 (5)	160,328 (30,393 - 304,454)	24,052 - 327,062	7 (8)	40,310 (17,444 - 81,062)	444 - 502,475	2 (6)	9895 (9548 - 10,243)	9548 - 10,243
3+	2 (2)	295,474 (249,994 - 340,954)	249,994 - 340,954	3 (4)	3425 (3322 - 119,370)	3322 - 119,370	0		
4+	0			2 (2)	90,390 (19,034 - 161,748)	19,034 - 161,748	0		
Total positive*	22 (23)	50,794 (13,680 - 160,328)	395 - 340,954	37 (44)	17,444 (6380 - 62,779)	16 - 502,475	20 (56)	3973 (926 - 7579)	133 - 16,608
Sensitivity, % (95% CI)	23 (16 - 32)			44 (34 - 55)			56 (40 - 70)		

B.

Aldolase result	<i>P. knowlesi</i> (N=26)	Pre-treatment parasite density (parasites/μL)		<i>P. falciparum</i> (N=30)	Pre-treatment parasite density (parasites/μL)		<i>P. vivax</i> (N=11)	Pre-treatment parasite density (parasites/μL)	
		Median (IQR)	Range		Median (IQR)	Range		Median (IQR)	Range
Negative	19 (73)	4833 (1574 - 14,056)	75 - 584,015	15 (50)	10,500 (3264 - 36,738)	1328 - 78,789	3 (33)	2848 (72 - 12,927)	72 - 12,927
1+	5 (19)	13,680 (9112 - 29,023)	4412 - 60,841	11 (37)	17,263 (5068 - 69,708)	16 - 97,365	7 (64)	3220 (2928 - 7463)	858 - 10,463
2+	1 (4)	327,062		2 (7)	60,979 (40,895 - 81,062)	40,895 - 81,062	0		
3+	1 (4)	249,994		1 (3)	3425		0		
4+	0			0			0		
Total positive*	7 (27)	29,023 (9112 - 249,994)	4412 - 327,062	15 (50)	32,267 (5068 - 69,708)	16 - 97,365	8 (73)	4079 (2978 - 7579)	858 - 10,463
Sensitivity, % (95% CI)	27 (14 - 46)			50 (33 - 67)			73 (43 - 90)		

* includes some results recorded only as "positive"