

Table S1 . Malaria parasites *P. falciparum* and *P. vivax* are associated with Fever

Fever	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	
Yes	23	34	57
	95%	94%	95%
No	1	2	3
	5%	6%	5%
Total	24	36	60
	100%	100%	100.0%

Table S2 . Malaria parasites *P. falciparum* and *P. vivax* associated with the Use of bed nets

Use of bed nets	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	
Yes	10	2	12
	42%	6%	20%
No	14	34	48
	58%	94%	80%
Total	24	36	60
	100%	100%	100.0%

Table S3 . Malaria parasites *P. falciparum* and *P. vivax* are associated with the Use of indoor residual spraying

Use of indoor residual spraying	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	
Yes	1	0	1
	4%	.0%	2%
No	23	36	59
	96%	100%	68%
Total	24	36	60
	100%	100%	100.0%

Table S4 . The relationship between Malaria Parasites *P. falciparum* and *P. vivax* and Parasitaemia

Parasitaemia	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	

+	4	8	12
	17%	22%	20%
++	9	13	22
	37%	36%	36%
+++	11	11	22
	45%	30%	37%
++++	0	4	4
	.0%	11%	7%
Total	24	36	60
	100%	100%	100.0%

Table S5 . Malaria parasites *P. falciparum* and *P. vivax* associate with the Cytoplasm of red blood cells

Cytoplasm	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	
Yes	21	11	32
	87%	30%	53%
No	3	25	28
	13%	70%	47%
Total	24	36	60
	100%	100%	100.0%

Table S6 . Malaria parasites *P. falciparum* and *P. vivax* are associated with the Size of red blood cells

Size	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	
Macrocytic Hypochromic	20	1	21
	83%	3%	35%
Macrocytic Normochromic	4	1	5
	17%	3%	9%
Normocytic Hypochromic	0	11	11
	.0%	30%	18%
Normocytic Normochromic	0	23	23
	.0%	64%	38%
Total	24	36	60
	100%	100%	100.0%

Table S7 . Malaria parasites *P. falciparum* and *P. vivax* are associated with the age of red blood cells

Age of RBC	Plasmodium Species		Total
	<i>P. vivax</i>	<i>P. falciparum</i>	
Young	24	10	34
	100%	28%	57%
Old	0	4	4
	.0%	11%	7%
All Age	0	22	22
	.0%	61%	36%
Total	24	36	60
	100%	100%	100.0%

Table S 8 . Malaria parasites *P. falciparum* and *P. vivax* are associated with blood parameters

Parameters	Species	N	Mean± Std.	Std. E.	t.test, df. and P. value
TWBCs	<i>P. vivax</i>	24	6.6 8±2.63	0.54	t = 0.078 df =58 P = 0.938
	<i>P. falciparum</i>	36	6.62±2.75	0.46	
RBCs	<i>P. vivax</i>	24	4.62±0.61	0.13	t =1.375df = 58 P = 0.174
	<i>P. falciparum</i>	36	4.83±0.52	0.09	
HB	<i>P. vivax</i>	24	13.20±1.62	0.33	t =-0.143 df= 58P = 0.887
	<i>P. falciparum</i>	36	13.26±1.74	0.29	
HCT	<i>P. vivax</i>	24	41.09±5.05	1.03	t =-0.903df = 58P = 0.370
	<i>P. falciparum</i>	36	42.26±4.85	0.81	
MCV	<i>P. vivax</i>	24	89.95±6.66	1.36	t=1.482df = 41.64 P =0.146
	<i>P. falciparum</i>	36	87.54±5.30	0.88	
MCH	<i>P. vivax</i>	24	29.28±3.71	0.76	t =2.297df = 58P = 0.025
	<i>P. falciparum</i>	36	27.48±2.35	0.39	
MCHC	<i>P. vivax</i>	24	32.53±2.77	0.57	t = 2.00 df 58= P = 0.050
	<i>P. falciparum</i>	36	31.36±1.73	0.29	
Platelets	<i>P. vivax</i>	23	225.91±60.04	12.52	t =3.620df 57= P = 0.001
	<i>P. falciparum</i>	36	155.58±79.75	13.29	
Lymphocytes	<i>P. vivax</i>	24	29.90±13.39	2.73	t =3.088df = 58P = 0.003
	<i>P. falciparum</i>	36	20.45±10.29	1.71	
Mixed	<i>P. vivax</i>	24	8.63±3.50	0.71	t = 0.26 df = 57.381P =0.796
	<i>P. falciparum</i>	36	8.31±5.89	0.98	
Neutrophils	<i>P. vivax</i>	24	59.90±12.66	2.58	t = -3.47 df= 51.2 P = 0.001
	<i>P. falciparum</i>	36	71.73±13.33	2.22	
RDW	<i>P. vivax</i>	24	11.80±1.35	0.27	T t=-4.142df = 58P = 0.000
	<i>P. falciparum</i>	36	13.28±1.35	0.23	