

S2 Table. Number, percent and univariate analysis for all measured exposures

Indoor residual spraying (1 missing)							
Never sprayed	325	42.2	187	29.2	1	-	-
< 12 months	341	44.3	364	56.9	0.49	(0.4-0.6)	<b>&lt;0.0001</b>
One year or more	29	3.8	41	6.4	0.42	(0.3-0.7)	<b>0.001</b>
Don't know	75	9.7	48	7.5	0.86	(0.5-1.3)	0.496
Adequate net coverage <sup>3</sup>	130	16.9	209	32.6	0.44	(0.3-0.6)	<b>&lt;0.0001</b>
Regular net use							
Never	466	60.5	264	41.2	1	-	-
Sometimes	61	7.9	85	13.3	0.56	(0.4-0.8)	<b>0.004</b>
Always	243	31.6	292	45.6	0.47	(0.4-0.6)	<b>&lt;0.0001</b>
Slept under net (7 missing)	266	34.8	304	47.6	0.56	(0.4-0.7)	<b>&lt;0.0001</b>
<b>Outdoor activities between sunset and sunrise<sup>4</sup></b>							
Number of outdoor activities							
None	271	35.2	272	42.4	1	-	-
1	328	42.6	268	41.8	1.08	(0.8-1.4)	0.554
2+	171	22.2	101	15.8	1.53	(1.1-2.1)	<b>0.012</b>
Timing of outdoor activities							
None	276	35.8	274	42.8	1	-	-
After sunset	245	31.8	180	28.1	1.09	(0.8-1.5)	0.536
Early morning	65	8.4	71	11.1	1.14	(0.8-1.8)	0.526
Early morning and after sunset	169	22.0	105	16.4	1.29	(0.9-1.8)	0.135
Late evening/all night	15	2.0	11	1.7	1.34	(0.6-3.1)	0.498
Frequency of (any) activities							
None	288	37.4	288	44.9	1	-	-
1-6 times per week	178	23.1	138	21.5	1.17	(0.9-1.6)	0.319
7+ times per week	304	39.5	215	33.5	1.17	(0.9-1.5)	0.260
Work (farming)	718	93.3	609	95.0	1.90	(1.2-3.0)	<b>0.006</b>
Work (other)	738	95.8	615	95.9	1.10	(0.6-1.9)	0.753
Collecting water	609	79.1	533	83.2	1.20	(0.9-1.6)	0.239
Playing	618	80.3	576	89.9	1.55	(1.1-2.2)	<b>0.015</b>
Visiting bars	756	98.2	616	96.1	0.48	(0.2-1.0)	<b>0.043</b>
Studying	742	96.4	620	96.7	1.2	(0.6-2.3)	0.530
Weeding/fieldwork	737	95.7	614	95.8	1.0	(0.6-1.8)	0.908
Cow herding	760	98.7	636	99.2	1.21	(0.4-3.4)	0.718
Slept outside (4 missing)	142	18.5	80	12.5	1.77	(1.3-2.4)	<b>&lt;0.0001</b>
Use of bite prevention	28	3.6	43	6.7	0.45	(0.3-0.8)	<b>0.003</b>
<b>Migration and recent travel</b>							
Migration <sup>5</sup>							
Not within past six months	693	90.0	594	92.7	1	-	-

	Domestic migration	37	4.8	34	5.3	1.10	(0.6-1.9)	0.750
	Cross-border migration	40	5.2	13	2.0	3.36	(1.6-7.1)	<b>0.002</b>
	Recent mobility <sup>6</sup>							
	None	689	89.5	524	81.8	1	-	-
	Domestic (Low risk)	14	1.8	50	7.8	0.31	(0.2-0.6)	<b>&lt;0.0001</b>
	Domestic (High risk)	49	6.4	60	9.4	0.72	(0.5-1.1)	<b>0.14</b>
	Cross-border	18	2.3	7	1.1	2.85	(1.0-8.2)	<b>0.05</b>
	Used bednet during trip	11	1.4	21	3.3	0.59	(0.3-1.3)	0.188
	Trip duration							
	No travel	689	89.5	524	81.8	1	-	-
	Less than 1 week	39	5.1	66	10.3	0.61	(0.4-1.0)	<b>0.030</b>
	1 – 4 weeks	23	3.0	46	7.2	0.46	(0.3-0.8)	<b>0.008</b>
	1 month or more	19	2.5	5	0.8	2.91	(1.0-8.1)	<b>0.043</b>
	<b>Environmental (68 missing)</b>							
	Distance to nearest health facility							
	< 5 min	244	33.7	301	48.7	1	-	-
	5 – 14 min	272	37.5	183	29.6	1.54	(1.2-2.1)	<b>0.003</b>
	≥ 15 min	209	28.8	134	21.7	1.90	(1.4-2.6)	<b>&lt;0.0001</b>
	Less than 10km to border	287	39.6	177	28.6	1.40	(1.0-1.9)	<b>0.029</b>
	Enhanced vegetation index (EVI)							
	<2500	39	5.4	139	22.5	1	-	-
	2500-4499	570	78.6	453	73.3	3.69	(2.5-5.5)	<b>&lt;0.0001</b>
	≥4500	116	16.0	26	4.2	11.55	(6.5-20.4)	<b>&lt;0.0001</b>
	Temperature tertiles							
	Lowest 1	313	43.2	138	22.3	1	-	-
	2	200	27.6	253	40.9	0.26	(0.2-0.4)	<b>&lt;0.0001</b>
	Highest 3	212	29.2	227	36.7	0.43	(0.3-0.6)	<b>&lt;0.0001</b>
	Elevation (m)							
	<960	207	28.6	266	43.0	1	-	-
	960-979	284	39.2	209	33.8	0.90	(0.6-1.3)	0.570
	980-1007	233	32.2	143	23.1	0.89	(0.6-1.4)	0.618
	Total rainfall (mm)							
	<70	105	14.5	331	53.6	1	-	-
	70-114	270	37.2	186	30.1	4.32	(3.2-5.9)	<b>&lt;0.0001</b>
	115-258	350	48.3	101	16.3	10.75	(7.6-15.0)	<b>&lt;0.0001</b>
	Second season (2016)	676	87.8	447	69.7	3.12	(2.3-4.2)	<b>&lt;0.0001</b>

<sup>1</sup> Estimates calculated using robust standard errors and adjusted for matching variables (age category, gender, calendar quarter), transmission season and health facility level. <sup>2</sup> First component, <sup>3</sup> At least 1 net per every 2 people in the household, <sup>4</sup> In the past 2 weeks, <sup>5</sup> Changed residence less than 6 months <sup>6</sup> Mobility within the past 30 days