

Supplementary Table 1. Impact of sociodemographic factors on malaria transmission in Guija.

Sociodemographic									
Variable		Crude odds ratio	P-value	95% CI		Adjusted odds ratio	P-value	95% CI	
Age	<5 years	Ref							
	5 years or more	1.26	0.705	0.3 8	4.10	1.34	0.671	0.3 4	5.23
Sex	Male	Ref							
	Female	1.38	0.573	0.4 5	4.24	1.15	0.824	0.3 4	3.83
School	Primary	Ref							
	Secondary	0.43	0.425	0.0 5	3.44				
	Technical/university	3.01	0.305	0.3 7	24.6 3				
	None	2.20	0.248	0.5 8	8.37				
Occupation	Domestic worker/farmer	Ref							
	Student	2.66	0.152	0.7 0	10.1 3	4.27	0.077	0.8 5	21.3 3
	Trader/services	-				-			
	Other/not applicable	3.59	0.110	0.7 5	17.2 1	2.14	0.418	0.3 4	13.4 1
Wall type	Cement	0.79	0.779	0.1 6	3.96				
	Other	Ref							
IRS									
Intervention	Pre-spraying	Ref							
	Post-spraying	0.82	0.729	0.2 8	2.46	1.28	0.712	0.3 4	4.84
Symptoms									
Fever in the last 24 hours	No	Ref							
	Yes	0.10	0.000	0.0 3	0.31	0.19	0.018	0.0 5	0.75
Control Measures									

House sprayed	No	Ref							
	Yes	1.71	0.338	0.5 7	5.11				
Impregnation	No	Ref							
	Yes	1.35	0.658	0.3 6	5.13				
Number of hanging mosquito nets		1.07	0.464	0.8 9	1.29				
Acquisition period for mosquito nets	Less than 1 year	Ref							
	1-2 years	0.30	0.081	0.0 8	1.16				
	2-3 years	-							
	3 years or more	0.51	0.408	0.1 1	2.49				
Child slept under mosquito net	No	Ref							
	Yes	1.95	0.544	0.2 3	16.9 6				
Access to health services									
Received antimalarials in past 30 days	No	Ref							
	Yes	0.02	0.000	0.0 1	0.06	0.04	0.000	0.0 1	0.16
Visited health center after fever	No	Ref							
	Yes	1.8	0.479	0.3 5	9.16				

Supplementary Table 2. Impact of sociodemographic factors on malaria transmission in Zavala.

Sociodemographic									
Variable		Crude odds ratio	P-value	95% CI		Adjusted odds ratio	P-value	95% CI	
Age	<5 years	Ref							
	5 years or more	1.42	0.011	1.0 9	1.8 6	2.25	0.000	1.4 7	3.4 5
Sex	Male	Ref							
	Female	0.88	0.354	0.6 8	1.1 5	1.00	0.988	0.6 6	1.5 0
School	Primary	Ref							
	Secondary	0.58	0.001	0.4 2	0.7 9	0.49	0.002	0.3 1	0.7 7
	Technical/university	0.53	0.003	0.3 5	0.8 1	0.29	0.033	0.0 9	0.9 0
	None	0.69	0.100	0.4 5	1.0 7	1.33	0.502	0.5 8	3.0 8
Occupation	Domestic worker/farmer	Ref							
	Student	0.56	0.003	0.3 8	0.8 3	0.72	0.450	0.3 0	1.6 9
	Trader/services	0.35	0.000	0.2 1	0.5 8	0.26	0.000	0.1 2	0.5 5
	Other/not applicable	0.14	0.000	0.0 5	0.3 4	0.17	0.101	0.0 2	1.4 1
Wall type	Cement	0.46	0.000	0.3 1	0.6 6	0.53	0.002	0.3 5	0.7 9
	Other	Ref							
IRS									
Intervention	Pre-spraying	Ref							
	Post-spraying	1.07	0.611	0.8 2	1.3 9	-			
Symptoms									
Fever in the last 24 hours	No	Ref							
	Yes	0.31	0.000	0.2 2	0.4 3	1.27	0.570	0.5 5	2.9 3

Control Measures									
House sprayed	No	Ref							
	Yes	0.86	0.280	0.6 6	1.1 3				
Impregnation	No	Ref							
	Yes	0.93	0.857	0.4 0	2.1 3				
Number of hanging mosquito nets		1.15	0.054	1.0 0	1.3 3	1.06	0.549	0.8 8	1.2 8
Acquisition period for mosquito nets	Less than 1 year	Ref							
	1-2 years	0.63	0.011	0.4 4	0.9 0				
	2-3 years	0.71	0.091	0.4 7	1.0 6				
	3 years or more	1.50	0.290	0.7 1	3.1 7				
Child slept under mosquito net	No	Ref							
	Yes	0.71	0.241	0.4 0	1.2 6	0.65	0.254	0.3 2	1.3 6
Access to health services									
Received antimalarials in past 30 days	No	Ref							
	Yes	0.14	0.000	0.0 9	0.2 1	0.11	0.000	0.0 4	0.2 9
Visited health center after fever	No	Ref							
	Yes	1.22	0.588	0.6 0	2.4 7				

Supplementary Table 3. Impact of sociodemographic factors on malaria transmission in Inharrime.

Sociodemographic									
Variable		Crude odds ratio	P-value	95% CI		Adjusted odds ratio	P-value	95% CI	
Age	<5 years	Ref							
	5 years or more	1.23	0.092	0.9 7	1.56	1.18	0.188	0.9 2	1.5 2
Sex	Male	Ref							
	Female	0.86	0.203	0.6 8	1.09	0.90	0.387	0.7 0	1.1 5
School	Primary	Ref							
	Secondary	0.66	0.003	0.5 0	0.86	0.64	0.002	0.4 8	0.8 5
	Technical/university	0.15	0.000	0.0 6	0.37	0.15	0.000	0.0 6	0.3 8
	None	1.40	0.088	0.9 5	2.06	1.23	0.319	0.8 2	1.8 5
Occupation	Domestic worker/farmer	Ref							
	Student	0.70	0.098	0.4 5	1.07				
	Trader/services	0.40	0.000	0.2 6	0.61				
	Other/not applicable	1.01	0.967	0.5 8	1.76				
Wall type	Cement	0.71	0.076	0.4 9	1.04				
	Other	Ref							
IRS									
Intervention	Pre-spraying	Ref							
	Post-spraying	0.63	0.000	0.5 0	0.80	0.69	0.004	0.5 3	0.8 9
Symptoms									
Fever in the last 24 hours	No	Ref							
	Yes	0.51	0.000	0.4 0	0.65				

Control Measures									
House sprayed	No	Ref							
	Yes	0.68	0.003	0.5 2	0.88	0.71	0.012	0.5 5	0.9 3
Impregnation	No	Ref							
	Yes	0.78	0.295	0.4 8	1.25				
Number of hanging mosquito nets		0.99	0.772	0.8 9	1.09				
Acquisition period for mosquito nets	Less than 1 year	Ref							
	1-2 years	0.91	0.775	0.4 9	1.70				
	2-3 years	1.24	0.522	0.6 4	2.42				
	3 years or more	3.07	0.069	0.9 2	10.2 9				
Child slept under mosquito net	No	Ref							
	Yes	0.94	0.774	0.6 2	1.42				
Access to health services									
Received antimalarials in past 30 days	No	Ref							
	Yes	0.34	0.000	0.2 5	0.47	0.37	0	0.2 7	0.5 1
Visited health center after fever	No	Ref							
	Yes	0.61	0.015	0.4 1	0.91				

Supplementary Table 4. Impact of sociodemographic factors on malaria transmission in Panda.

Sociodemographic									
Variable		Crude odds ratio	P-value	95% CI		Adjusted odds ratio	P-value	95% CI	
Age	<5 years	Ref							
	5 years or more	1.81	0.000	1.3 2	2.4 8	1.86	0.000	1.3 3	2.6 1
Sex	Male	Ref							
	Female	0.76	0.058	0.5 8	1.0 1	0.72	0.036	0.5 4	0.9 8
School	Primary	Ref							
	Secondary	0.90	0.527	0.6 4	1.2 6				
	Technical/university	0.49	0.064	0.2 3	1.0 4				
	None	0.57	0.047	0.3 2	0.9 9				
Occupation	Domestic worker/farmer	Ref							
	Student	1.12	0.514	0.8 0	1.5 6				
	Trader/services	0.88	0.542	0.5 9	1.3 2				
	Other/not applicable	0.72	0.215	0.4 4	1.2 1				
Wall type	Cement	0.44	0.020	0.2 2	0.8 8				
	Other	Ref							
IRS									
Intervention	Pre-spraying	Ref							
	Post-spraying	0.51	0.000	0.3 8	0.6 8	0.48	0.000	0.3 5	0.6 7
Symptoms									
Fever in the last 24 hours	No	Ref							
	Yes	0.50	0.000	0.3 5	0.7 0	0.58	0.030	0.3 6	0.9 5

Control Measures									
House sprayed	No	Ref							
	Yes	1.12	0.452	0.8 3	1.5 0				
Impregnation	No	Ref							
	Yes	2.83	0.017	1.2 0	6.6 3	2.50	0.042	1.0 3	6.0 3
Number of hanging mosquito nets		0.92	0.440	0.7 6	1.1 3				
Acquisition period for mosquito nets	Less than 1 year	Ref							
	1-2 years	0.77	0.388	0.4 2	1.4 0				
	2-3 years	0.67	0.207	0.3 6	1.2 5				
	3 years or more	0.61	0.163	0.3 1	1.2 2				
Child slept under mosquito net	No	Ref							
	Yes	4.23	0.001	1.8 5	9.6 9				
Access to health services									
Received antimalarials in past 30 days	No	Ref							
	Yes	0.28	0.000	0.1 8	0.4 4	0.36	0.001	0.2 0	0.6 6
Visited health center after fever	No	Ref							
	Yes	0.36	0.025	0.1 5	0.8 8				