

## Global mean indices of infestation (*n* = 838):

(1) Baseline = 27.01

(2) Spray 1 = 5.52

(3) Spray 2 = 4.17

A McNemar test for correlated proportions found a statistically significant difference in the proportion of houses infested between baseline and spray 1 (P < 0.001) and between sprays 1 and 2 (P < 0.001). In addition, a Friedman test showed that the mean indices of infestation were statistically significantly different across all three time points (P < 0.001).

## **Regression Analyses**

## TABLE A1

Relationship between reinfestation after first residual insecticide spray and time lapse during first spray

Model 1 (N = 811)	Odds ratio	95% CI	P value
Time lapse 180–360 days	1.65	1.09-2.50	0.019
Time lapse > 360 days	3.33	2.19-5.05	< 0.001
High cluster at baseline	1.04	0.76-1.42	0.799
Quarter 2 vs. quarter 1	0.69	0.46-1.03	0.069
Quarter 3 vs. quarter 1	1.08	0.72 - 1.62	0.711
Quarter 4 vs. quarter 1	0.64	0.39–1.04	0.070

CI = confidence interval; quarter 1 = January to March; quarter 2 = April to June; quarter 3 = July to September; quarter 4 = October to December.

TABLE A2 Relationship between reinfestation after second residual insecticide spray and time lanse during second spray

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Model 2 ( <i>N</i> = 663)	Odds ratio	95% CI	P value		
Time lapse 180–360 days	1.37	0.96-1.58	0.084		
Time lapse > 360 days	1.17	0.81 - 1.68	0.411		
Reinfested after spray 1	2.12	1.50-3.01	< 0.001		
Quarter 2 vs. quarter 1	1.10	0.68 - 1.80	0.699		
Quarter 3 vs. quarter 1	0.80	0.477-1.34	0.400		
Quarter 4 vs. quarter 1	1.32	0.74-2.33	0.346		

CI = confidence interval; quarter 1 = January to March; quarter 2 = April to June; quarter 3 = July to September; quarter 4 = October to December.

Relationship between falling in a high infestation cluster after first residual insecticide spray and time lapse during first spray

Model 3 (N = 838)	High cluster after spray 1	95% CI	P value
Time lapse 180–360 days Time lapse ≥ 360 days High cluster at baseline	6.91 5.79 17.98	3.68–12.97 3.10–10.82 12.09–26.74	$0.000 \\ 0.000 \\ 0.000$

CI = confidence interval.

TABLE A4

Relationship between falling in a high infestation cluster after second residual insecticide spray and time lapse during second spray

Model 4 (N = 838)	High cluster after spray 2	95% CI	P value
Time lapse 180–360 days	2.64	1.78–3.39	0.000
Time lapse ≥ 360 days	0.70	0.51–0.96	0.030
Reinfested after spray 1	2.92	2.09–4.07	0.000

CI = confidence interval.