

Supplement S1

Significance tests and mean values of malaria indicators in different classification groups

Classification method: *k*-mean.

Splitting rules: a) all variables used must be significantly different between/among classified groups; b) each group must have at least 5 members.

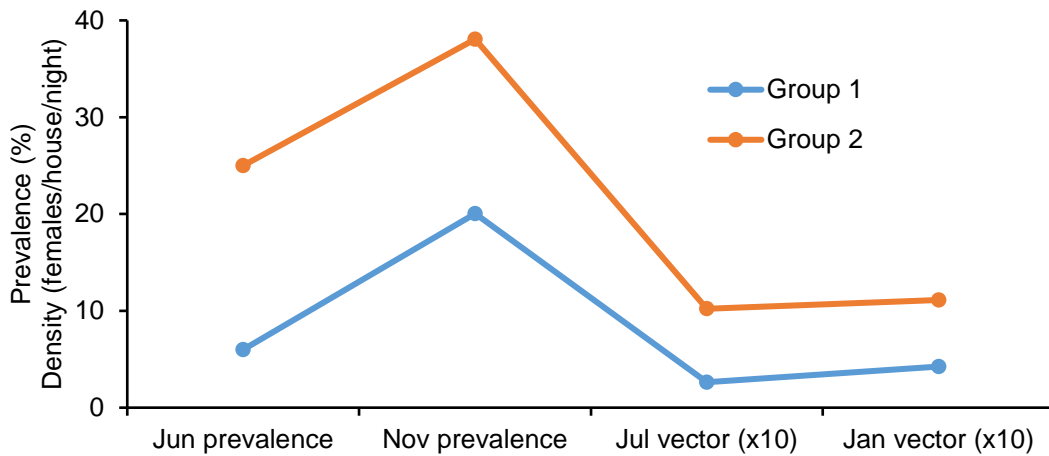
1. Classification I

Malaria transmission indicators used: Parasite infection prevalence (%) in June and November 2019, vector density (females/house/night) in July 2019 and January 2020.

1.1. K=2

Analysis of variance

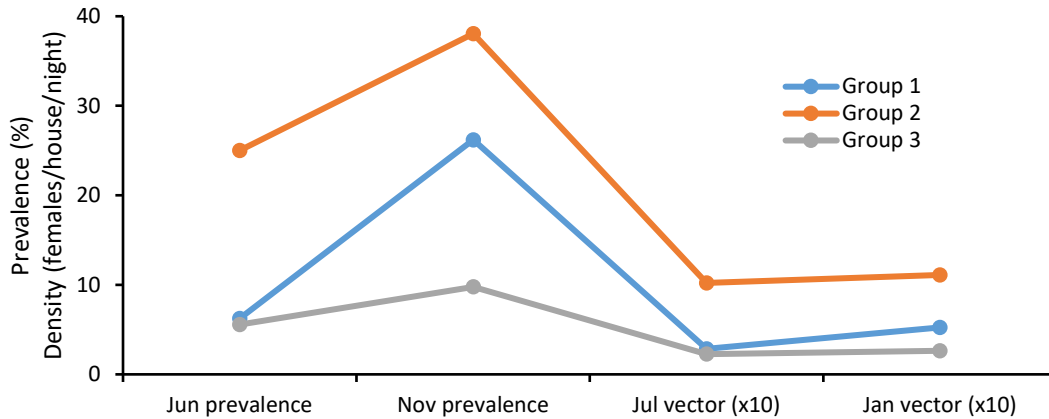
	Between SS	df	Within SS	df	F	P-value
November prevalence	2597.17	1	2876.89	34	30.69	0.0000
June prevalence	2890.33	1	967.39	34	101.58	0.0000
January adult density	3.76	1	19.34	34	6.62	0.0147
July adult density	4.60	1	6.21	34	25.18	0.0000



1.2. K=3

Analysis of variance

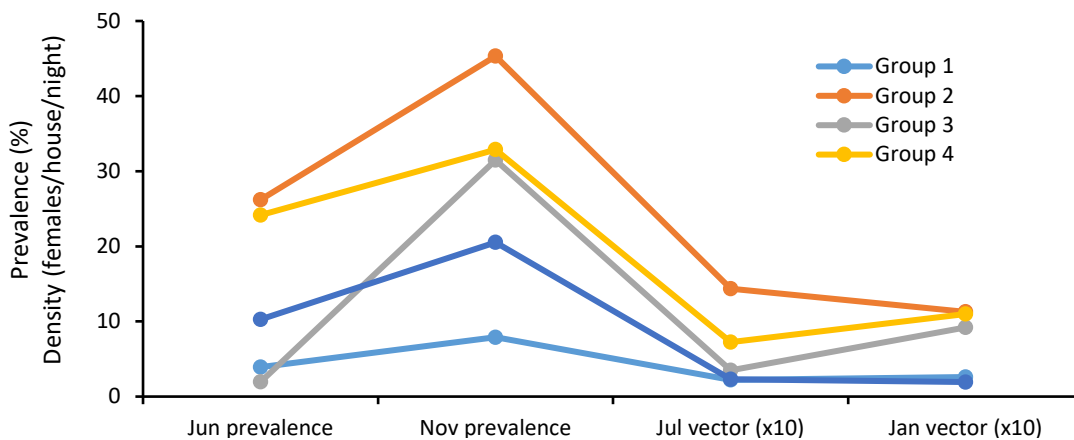
	Between SS	df	Within SS	df	F	P-value
November prevalence	4116.94	2	1357.12	33	50.05	0.0000
June prevalence	2893.16	2	964.56	33	49.49	0.0000
January adult density	4.15	2	18.96	33	3.61	0.0383
July adult density	4.62	2	6.19	33	12.31	0.0001



1.3. K=5

Analysis of variance

	Between SS	df	Within SS	df	F	signif. p
November prevalence	4997.86	4	476.20	31	81.34	0.0000
June prevalence	3228.65	4	629.07	31	39.78	0.0000
January adult density	6.22	4	16.89	31	2.85	0.0402
July adult density	6.15	4	4.66	31	10.23	0.0000



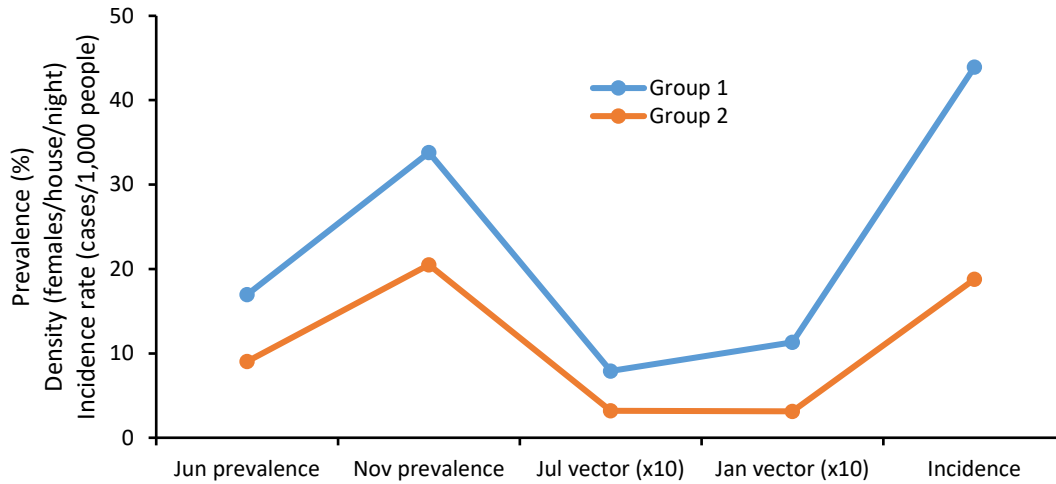
2. Classification II

Malaria transmission indicators used: Parasite infection prevalence (%) in June and November 2019, vector density (females/house/night) in July 2019 and January 2020, and malaria incidence (cases/1,000 people/month).

2.1. K=2

Analysis of variance

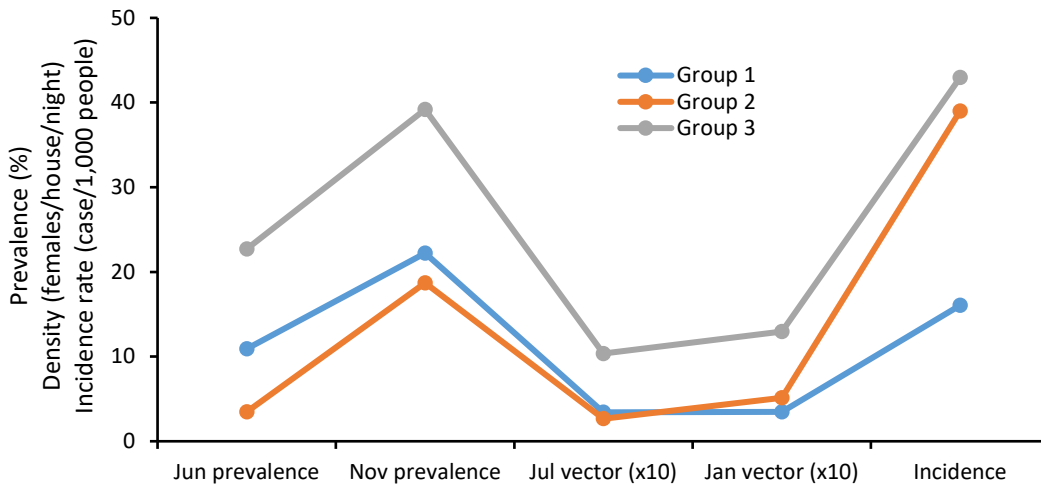
	Between SS	df	Within SS	df	F	P-value
November prevalence	1551.54	1	3922.52	34	13.45	0.0008
June prevalence	547.77	1	3309.95	34	5.63	0.0235
January adult density	5.83	1	17.27	34	11.49	0.0018
July adult density	1.96	1	8.86	34	7.50	0.0097
Incidence rate	12431.67	1	6318.70	34	66.89	0.0000



2.2. K=3

Analysis of variance

	Between SS	df	Within SS	df	F	P-value
November prevalence	2458.04	2	3016.02	33	13.45	0.0001
June prevalence	1818.33	2	2039.39	33	14.71	0.0000
January adult density	5.89	2	17.21	33	5.65	0.0078
July adult density	3.78	2	7.03	33	8.88	0.0008
Incidence rate	12805.73	2	5944.64	33	35.54	0.0000



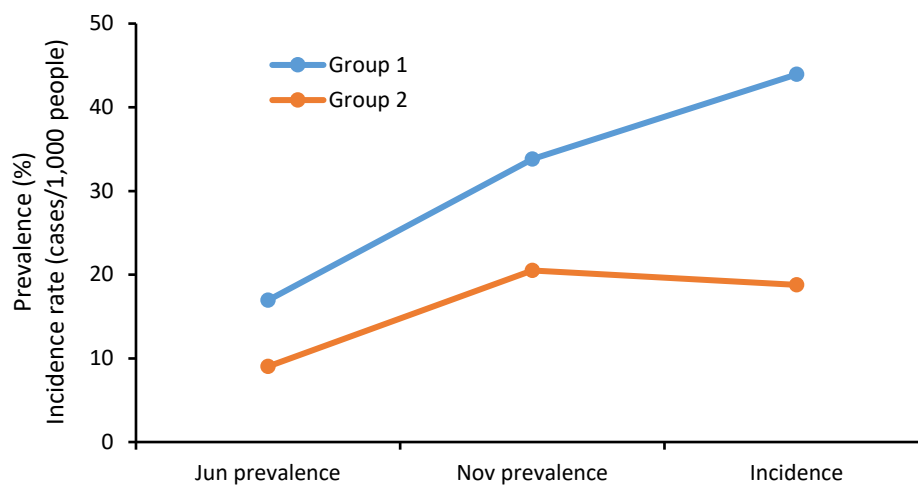
3. Classification II

Malaria transmission indicators used: Parasite infection prevalence (%) in June and November 2019, and malaria incidence (cases/1,000 people/month).

3.1. K=2

Analysis of variance

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June prevalence	547.77	1	3309.95	34	5.63	0.0235
Incidence rate	12431.67	1	6318.70	34	66.89	0.0000



3.2. K=3

Analysis of variance

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