Modeling the impact of biolarvicides on malaria transmission

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Highlights

- We study use of biolarvicides for prevention of malaria using a mathematical model.
- Model is calibrated to biolarvicide and malaria incidence data from endemic regions.
- The R_0 formula captures transitions in the analysis and is corroborated by data.
- Equilibria and bifurcations reveal qualitative features of population dynamics.
- We determine model sensitivity to parameters and their significance.