

BOTANICALS FOR THE CONTROL OF MOSQUITOES



RATIONALE

Phytochemicals derived from botanical sources provide a natural source of various compounds which has insecticidal properties. It is well established that repeated use of synthetic chemical insecticides for mosquito control has led to the development of resistance, undesirable effects on non-target organisms and serious environmental and human health concerns. Botanical insecticides may serve as suitable alternatives to synthetic insecticides as they are relatively safe, biodegradable and readily available in many areas of the world.

In view of an increasing interest in developing insecticides of plant origin, crude extracts from leaves of Hagonoy, Lantana, Lemongrass, Makabuhay and Neem were used in the study as organic plant pesticides.



Makabuhay

Neem



Lemongrass

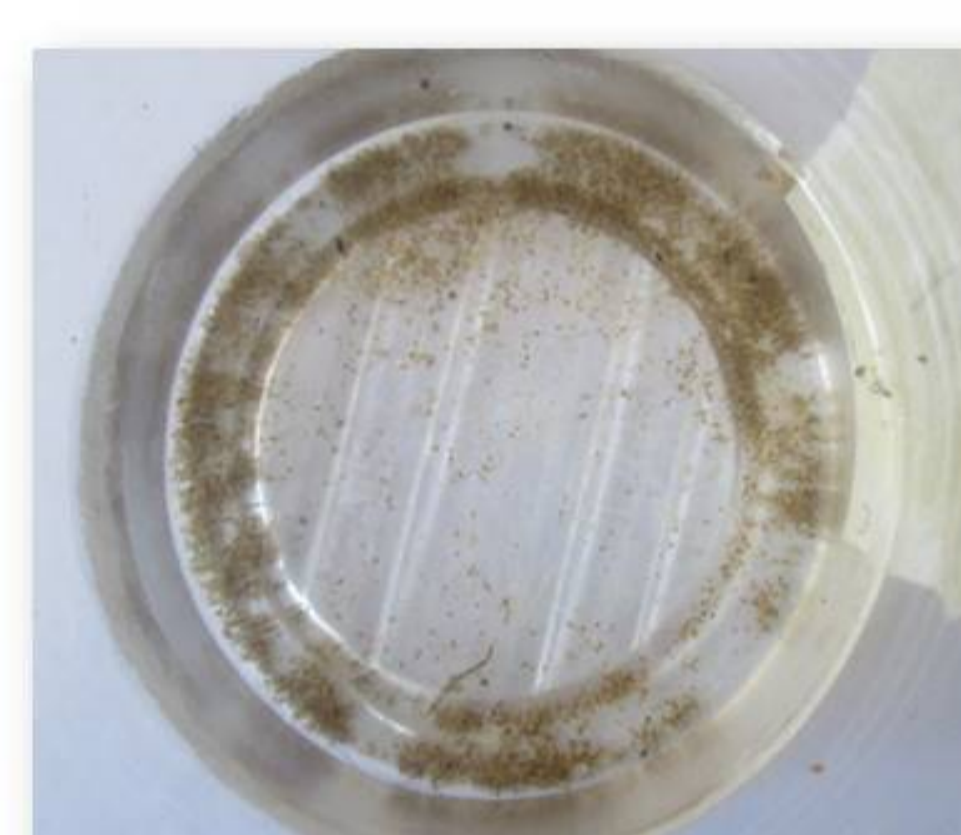
Lantana

Hagonoy

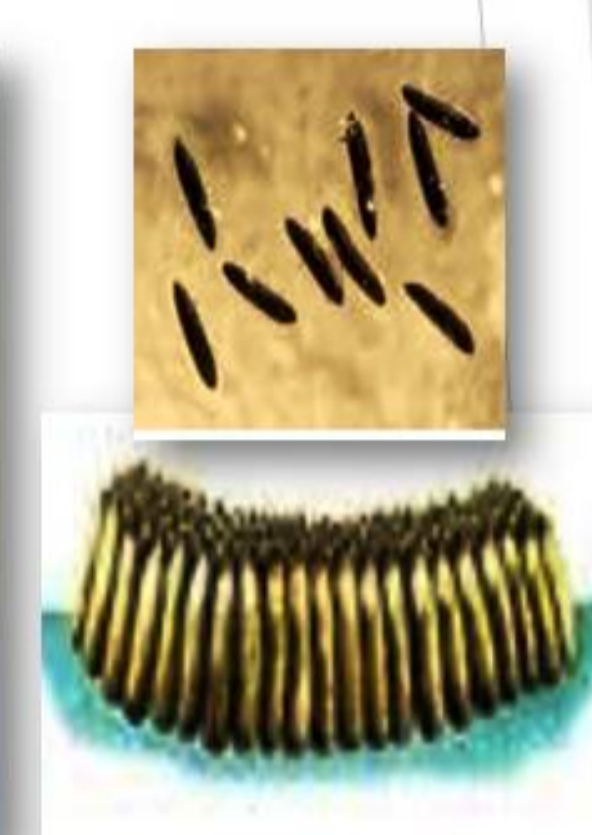
METHODS



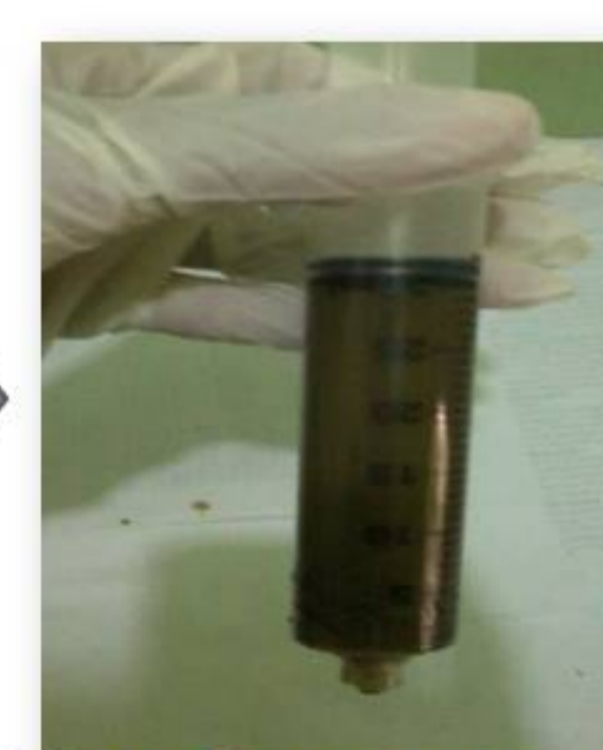
Ovitrap



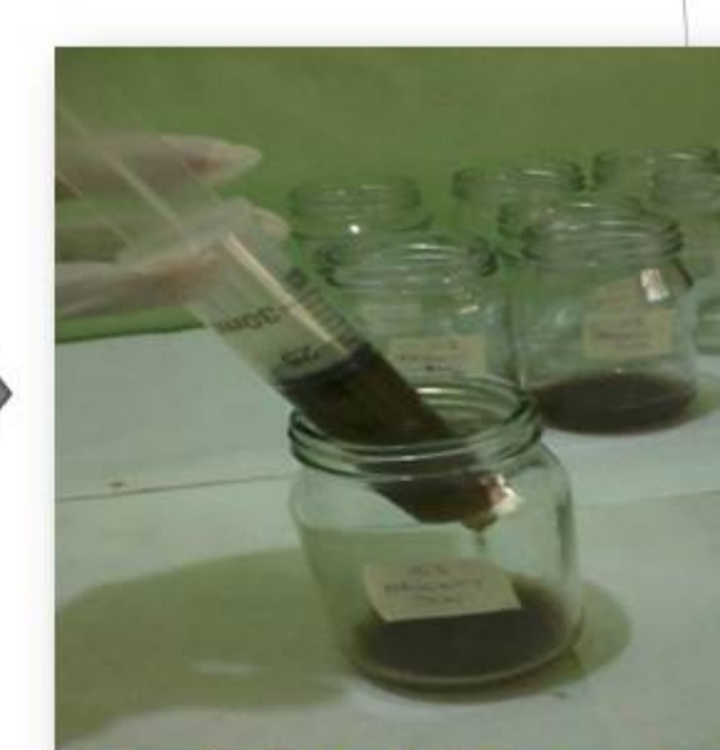
Mosquito Eggs



Botanical Leaf Extracts

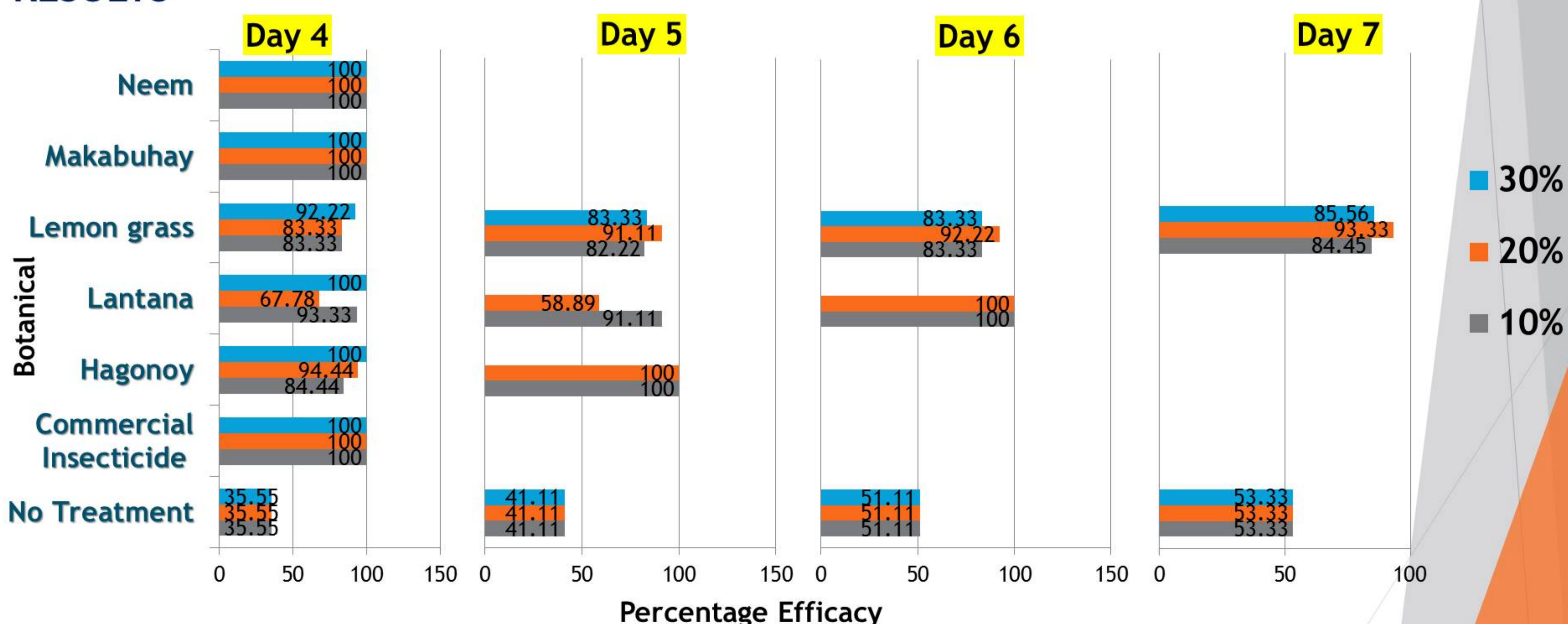


Test Concentration



Ovicidal Bioassay

RESULTS



CONCLUSIONS

- Hagonoy, Lantana, Lemongrass, Makabuhay, and Neem leaf crude extracts are effective against mosquito eggs.
- Neem and Makabuhay leaf extract were most effective against mosquito eggs.

RECOMMENDATION

- Hagonoy, lantana, lemongrass, makabuhay, and neem have the potential to be used as an ideal eco-friendly approach for the control of mosquitoes.

