

ABSTRACT

THE EFFECTS OF KRISAN FLOWER (*Crhysanthemum morifolium*) EXTRACT AS OVICIDE OF *Aedes aegypti*'S EGG

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DHF was still one of biggest health problem in Indonesia in the last 45 years. The prevention of *Aedes aegypti* mosquito as one of vector of dengue fever have been carried out, one of them been using the synthetic insecticides. However, the use of synthetic insecticides is not safe for synthetic insecticides's user and causes vector resistance, we need natural insecticide. One of them is krisan flower (*Chrysanthemum morifolium*). Krisan flower contains *flavonoid* and *triterpenoid* which can inhibit eggs hatchability.

The purpose is to determine effectiveness of krisan flower extracts as ovicides of *Aedes aegypti*. Design researc is experimental with completely randomized design that used four time repetitions, the concentrations are 0% as the negatif control, 0,125%, 0,25%, 0,55 and 1% with 500 *Aedes aegypti*'s eggs. Then, the eggs every six hours for three days was observed.

Bivariat test that used for this study was *Kruskal Wallis*. The result of *Kruskal Wallis* test obtained $p < 0,05$. ED_{50} is 0,268% and ED_{99} is 2,277%

The result indicate that extract of krisan flower can be used for *Aedes aegypti*'s ovicide. Optimum concentration is 1%.

Key words : *Aedes aegypti*, DHF, Krisan flower, Ovicides.