

## ABSTRACT

Indonesian Ministry of Health  
Surabaya Health Ministry Polytechnic  
Sanitation Study Program D-III Magetan Campus  
Scientific Papers, June 2020

Vivi Ratna Sari

**Effects of a Mixture of Extract Garlic (*Allium sativum*) and Lemongrass (*Andropogon nardus L.*) as Biolarvasida of *Aedes aegypti***

ix + 62 pages + 13 table + 9 pictures + 6 attachments

*Aedes aegypti* is the type of mosquito that carries the many attacks of dengue fever and chikungon in the tropics and subtropics. *Dengue Hemorrhagic Fever* (DBD) is still a public health problem in Indonesia. Much can be done to break the chain of propagation of one by using larvasida. The study will also identify the effects of a mixture of extract garlic (*Allium sativum*) and (*Andropogon nardus L.*) as biolarvasida of *Aedes aegypti*.

This type of study is an *True Experimental* study with a *Posttest-Only Control Design* design that gives variations in concentration of a mixture of extract garlic (*Allium sativum*) and (*Andropogon nardus L.*) 0% (control), 0.5%, 1%, and 2% on experimental media each containing 25 *Aedes aegypti* mosquitoes larvae for 24 hours.

The results reported *Aedes aegypti* larvae dead in concentration 0% is 0%, the concentration of 0.5% is 13%, the concentration of 1% is 17%, and the concentration of 2% is 31%, of the 25 mosquitoes larvae at the concentration and 6 replication. Of *One Way Anova* statistical testing showed there was the influence of the effects of a mixture of extract garlic (*Allium sativum*) and (*Andropogon nardus L.*) as biolarvasida of *Aedes aegypti* with the value of significance (0,000) smaller than  $\alpha$  (0,05).

It can be concluded that a mixture extract of garlic and lemongrass can be used as *Aedes aegypti* biolarvasida so eradication as a vector alternative *dengue* fever. To further investigation necessary research to find concentrasiun most effective.

Keywords : Biolarvasida, *Aedes aegypti*, a mixture extract of garlic and lemongrass

Literature : 26 reading (2008 – 2019)