

ABSTRACT NUMBER : OO5

Breeding Site's of *Ae Aegypti* Mosquitoes In Cibeureum Village of Cimahi City, West Java Indonesia

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Dengue Haemorrhagic Fever (DHF) in Indonesia still becomes a serious problem of health. Based on the report, there is tend to increase yearly either in Incidence rate or in the number of dead patients caused by this disease since the first time found in this country in 1968. DHF is caused by virus Dengue and infected by a mosquito's vector. A study in Indonesia stated that the main vector of DHF is *Aedes aegypti* mosquito. This research aimed to understand the breeding site's of *Ae aegypti* mosquitoes in Cibeureum village of Cimahi City, West Java Indonesia. Thirty houses and 180 ovitraps were used in this study. Three ovitraps placed inside every house while three ovitraps in the outside. Ovitrap have been followed up for four days. Eggs found on those ovitraps observed in the laboratory and identified under microscope. This study shows that 43 ovitraps (23.9%) positive of *Ae aegypti*'s eggs. There are 30.2% of all positive ovitraps found from ovitraps sited inside the house and 69.8% from the outside. It is suggested that all things that can be act as breeding site outside the house such as cans, bamboos, camber pot, tires etc should be buried so that mosquitoes cannot lay their eggs on those items.

Keywords: breeding, *Ae aegypti*, ovitraps, Cibeureum



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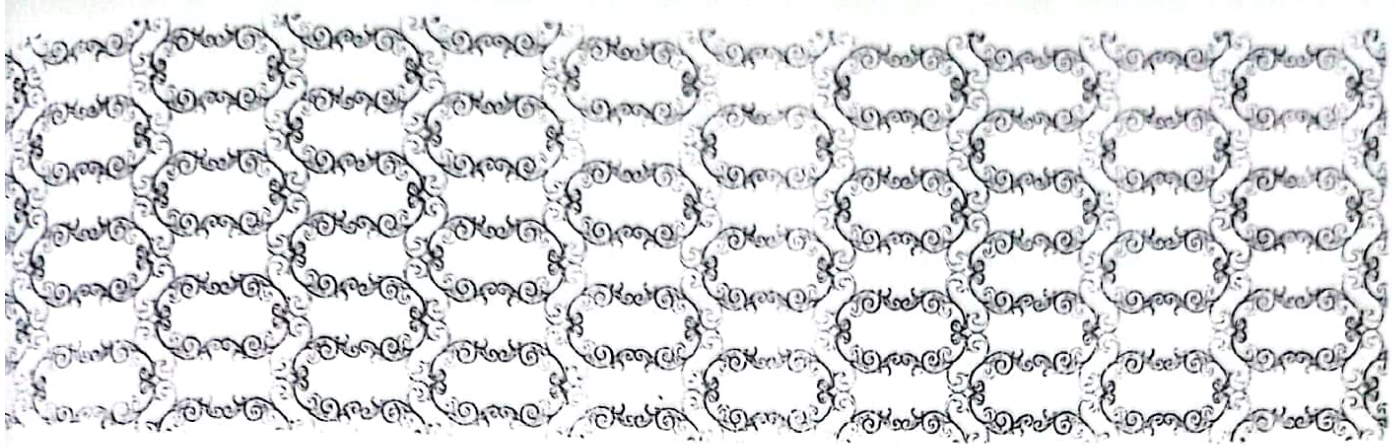
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ABSTRACT NUMBER : OP2

Aromatherapy from Extract *Evodia suaveolens* to Create a Free *Aedes aegypti* Room

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Dengue Haemorrhagic Fever (DHF) is still becomes a serious problem in Indonesia. Since the medicine and vaccine have not been found yet, control of DHF can only be done by cutting transmission circle between mosquito and man. The main vector of DHF is *Aedes aegypti*. Due to the previous research of *Evodia suaveolens* as a repellent for *Ae. aegypti*, this study develops aromatherapy from extract *E. suaveolens* to forbid *Ae. aegypti* entering the room. The outcome of this research is a simple technology to cut the DHF's transmission by creating a free *Ae. aegypti* room. An experimental study has been done in this research. There are four steps have been arranged i.e. (1) Breeding *Ae. aegypti* mosquitoes as research subject; (2) Extracting *E. suaveolens*; (3) Testing in limited room test, (4) Assessing the dose of aromatherapy. Data have been analyzed by correlation test to get the dose for creating a free *Ae. aegypti* room. The result shows that it needs 0.55mL solution/m³ to make a room free from *Ae. aegypti* mosquito.

Key words: Dengue Hemorrhagic Fever, aromatherapy, room, *Aedes aegypti*