

## ABSTRAK

**Sri Mulyani Q. Lapa. 811411052. Efektifitas ekstrak biji srikaya (*annona squamosa linn*) sebagai insektisida terhadap kematian larva *aedes aegypti*.** Skripsi, Jurusan Kesehatan Masyarakat, Fakultas Ilmu-Ilmu Kesehatan dan Keolahragaan, Universitas Negeri Gorontalo. Pembimbing I, Dr. Sunarto Kadir, Drs., M.Kes dan Pembimbing II, Sirajuddin Bialangi, SKM,M.Kes.

Nyamuk *Aedes aegypti* merupakan salah satu vektor yang dapat menyebabkan penyakit Demam Berdarah Dengue (DBD). Penyakit DBD merupakan salah satu masalah kesehatan masyarakat di Negara-negara yang mempunyai iklim tropis, termasuk Indonesia (Michael, 2008).

Rumusan masalah dalam penelitian ini adalah apakah ekstrak biji srikaya sebagai insektisida terhadap kematian larva *Aedes aegypti*. Tujuan penelitian untuk mengetahui efektifitas ekstrak biji srikaya sebagai insektisida terhadap kematian larva *Aedes aegypti* dengan berbagai macam konsentrasi yaitu 1%, 3% dan 5%.

Penelitian ini dilaksanakan di Kelurahan Hunggaluwa Kecamatan Limboto Kabupaten Gorontalo, pembuatan ekstrak biji srikaya dilaksanakan di Laboratorium Kesehatan Masyarakat. Metode penelitian menggunakan metode eksperimen sungguhan dengan pendekatan Rancangan Acak Lengkap. Populasi penelitian semua larva nyamuk *Aedes aegypti* dengan jumlah sampel sebanyak 25 ekor larva yang dimasukkan ke dalam ekstrak biji srikaya dengan konsentrasi 1%, 3%, 5%..

Hasil penelitian menunjukkan pada konsentrasi 1%, 3% dan 5%, persentase jumlah larva mati berturut-turut 76%, 92%, 100%. Sehingga dapat dikatakan "Terdapat perbedaan daya bunuh ekstrak biji srikaya dengan konsentrasi 1%, 3% dan 5% dalam membunuh larva nyamuk *Aedes aegypti*". Disarankan kepada masyarakat agar menggunakan ekstrak biji srikaya untuk membunuh larva *Aedes aegypti* dalam upaya pengendalian penyakit demam berdarah *dengue*. Dapat disimpulkan bahwa ekstrak biji srikaya efektif dalam membunuh larva *Aedes aegypti*. Disarankan bagi instansi terkait khususnya dinas kesehatan supaya dapat memberikan sosialisasi pada masyarakat tentang penggunaan ekstrak biji srikaya sebagai pengganti abate untuk mengendalikan larva nyamuk *Aedes aegypti*

**Kata Kunci: Larva, *Aedes aegypti*, Biji srikaya, Insektisida nabati**

## ABSTRACT

**Sri Mulyani Q. Lapa. Student ID 811411052. Effectiveness of Nona Fruit Seed Extract (*Annona squamosa* Linn) as Insecticide for the Death of *Aedes aegypti* Larvae.** Skripsi. Public Health Department, Faculty of Health Science and Sports, State University of Gorontalo. The principal supervisor was Dr. Sunarto Kadir, Drs., M.Kes and Co-supervisor was Sirajuddin Bialangi, SKM., M.Kes.

*Aedes aegypti* mosquito or the yellow fever mosquito is one of the vectors that carries the dengue fever disease. The dengue fever disease is one of the leading health problems for the community in developing countries with tropical climate, including Indonesia (Michael, 2008).

The problem statement in this research was whether the Nona Fruit seed extract has influence to the death of the *Aedes aegypti* larvae. The objective of this research was to find out the effectiveness of Nona Fruit seed extract toward the death of *Aedes aegypti* larvae with various concentration of 1%, 3%, and 5%.

This research was implemented in Hunggaluwa Village of Limboto Sub-district, District of Gorontalo. The Nona Fruit seed extract was made at the public health laboratory. The research was carried out in experimental design with complete random sampling. The population of this research was all the larvae of *Aedes aegypti* mosquitoes with 25 larvae of the mosquitos as sample, which were submerged into 1%, 3% and 5% concentrates of Nona Fruit seed extract.

This research revealed that the number of death in 1%, 3%, and 5% concentrates were 76%, 92%, and 100%. Thus, it can be said that, "there was differences in effectiveness of 1%, 3% and 5% concentrate of the Nona Fruit seed extract in killing the larvae of the *Aedes aegypti* mosquito." It was concluded that the seed extract of Nona Fruit is effective in killing the larvae of the *Aedes aegypti* mosquitos. It is recommended to the related government agency especially the health department to give socialization to the community on the benefit of using the Nona Fruit seed extract as the substitute of abate powder in curbing the spread of the *Aedes aegypti* larvae.

**Keywords:** larvae, *Aedes aegypti*, Nona Fruit Seed Extract, Natural Insecticide.

