

Guarantee Yourself and Guarantee The Environment With Seruni 100 cc in Dealing With The Event of Dengue Hemorrhagic Fever in Tangerang District

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Abstract

Dengue fever can appear throughout the year and can affect all age groups. This disease is related to environmental conditions and people's behavior. Community behavior such as the habit of storing water for daily needs such as collecting rainwater, and well water, and making bathtubs or drums/jars as suitable for breeding mosquitoes. This awareness must be built together so that undesirable things do not happen, one of which is the occurrence of dengue fever. DHF treatment can actually be done in many ways. Starting from the eradication of mosquito nests (PSN) and 3M activities, namely draining, cleaning, and stockpiling materials that can hold water. This activity aims to provide counseling and group activity therapy about progressive muscle relaxation techniques for health workers for Covid-19 patients. This is expected to reduce the incidence of dengue fever. The counseling method used leaflets and the provision of 100cc chrysanthemums. After giving the material, participants know and understand the material that has been delivered by the speaker.

Keywords: DHF, Seruni 100cc, Take care of yourself and the environment

INTRODUCTION

Dengue hemorrhagic fever (DHF) or dengue hemorrhagic fever (DHF) is an acute febrile disease accompanied by internal bleeding that has a tendency to cause shock or convulsions and can cause death, generally this disease attacks children younger than 15 years. but now sufferers can come from adults. DHF is an infectious disease caused by the dengue virus and most of its transmission comes from the bite of the Aedes mosquito, either Aedes aegypti or Aedes albopictus.

Dengue fever can appear throughout the year and can affect all age groups. This disease is related to environmental conditions and people's behavior. DHF was first recognized in the 1950s, however, in 1975 until now it is the leading cause of death in children in Asian countries. The World Health Organization (WHO) estimates that 2.5 billion or 40% of the world's population is at risk for dengue disease, especially those living in urban areas in tropical and subtropical countries. It is also currently estimated that there are 390 million dengue infections that occur worldwide each year (WHO, 2015).

4M Plus is a program that contains activities in the form of; draining water reservoirs, closing water reservoirs tightly, burying and getting rid of used goods, monitoring the presence of larvae and continuing environmental management such as increasing awareness of environmental cleanliness and so on. The higher the public awareness to carry out the 4M Plus movement and the awareness to manage the environment, the dengue cases will decrease automatically. Community behavior such as the habit of collecting water for daily needs such as collecting rainwater, well water, making bathtubs or drums/jars as suitable breeding places for mosquitoes; the habit of storing used goods or not checking the environment for the presence of water stored in containers (Respati, 2016).

"Especially during the current rainy season. There is a tendency for dengue cases to occur. We urge the public to be disciplined in maintaining the cleanliness of themselves and their environment. Don't let standing water become a breeding ground for the Aedes aegypti mosquito that causes DHF. DHF has been repeated every year," said Mr. Andi, a resident of Sindang Asih

Village, Sindang Jaya District, Tangerang Regency, when we asked if any action had been taken to overcome the problem of DHF incidence, just as people are aware of how to anticipate, by always maintaining cleanliness. environment or the eradication of the proliferation or spread of the *Aedes Aegypti* mosquito, he only replied that I really hope for each other's awareness, that awareness must be built together so that unwanted things do not happen, one of which is the occurrence of dengue fever. Andi admits that the actual handling of dengue can be done in many ways. Starting from the eradication of mosquito nests (PSN) and 3M activities, namely draining, cleaning, and stockpiling materials that can hold water. "We hope that people's awareness of cleaning their environment can minimize the spread of dengue fever," said Andi Ishak

In this case, residents in the Tangerang Regency area must be of special concern because they are an involvement that is very risky to transmit or be transmitted by this virus from the Arbovirus group. According to the cadre of Sindang Asih Village, Sindang Jaya District, Tangerang Regency, we are trying to prepare possible service facilities for DHF patients, but in certain circumstances. The public is asked to understand the limitations of service facilities. I hope the public can realize and help clean up the environment."

METHOD

This community service activity is carried out in 2 stages, namely the first stage of providing material, then the implementation of giving 100cc chrysanthemums. At the counseling stage, it was carried out using the lecture, discussion, and question and answer method. Participants are evaluated through questions to see the extent of understanding related to the material provided. The tools used in this activity are leaflets and 100cc chrysanthemums. The population and sample in this activity are residents of Sindang Asih Village, Sindang Jaya District, Tangerang Regency. The venue for the implementation is in Sindang Asih Village, Sindang Jaya District, Tangerang Regency., in September 2021.

RESULTS

This community service activity was attended by 30 residents of Sindang Asih Village, Sindang Jaya District, Tangerang Regency. Counseling is carried out using lecture, discussion, and question-and-answer methods. The evaluation results obtained are almost 90%, and participants can answer the questions given. This means that participants know and understand the material that has been delivered by the speaker.

DISCUSSION

Dengue hemorrhagic fever (DHF) is a disease caused by a virus from the Arbovirus group which is characterized by sudden high fever for no apparent reason, lasting continuously for 2-7 days, bleeding manifestations (petechiae, purpura, conjunctival bleeding, epistaxis, mucosal bleeding, bleeding gums, hematemesis, melena, hematuria) including positive tourniquet test (Rumple Leede), thrombocytopenia (platelet count 100,000) hemoconcentration (increased hematocrit $\geq 20\%$) with or without liver enlargement (Rerung, 2015).

Female *Aedes* (*Stegomyia*) mosquitoes will usually be infected with dengue virus when sucking blood from patients who are in the acute fever (viremic) phase of pentakit. After an extrinsic incubation period of 8 to 10 days, the mosquito's salivary glands become infected and the virus is spread when the infective mosquito bites and injects saliva into the bite wound of another person. The incubation period in humans is 3-14 days (average 4-6 days), often with sudden onset. The disease is characterized by fever. Headache, myalgia, loss of appetite, and a variety of other nonspecific signs and symptoms including nausea, vomiting and skin rash.

Efforts to prevent dengue transmission are carried out by breaking the chain of dengue transmission in the form of prevention of the bites of *Aedes aegypti* and *Aedes albopictus* mosquitoes. The optimal activity is eradicating mosquito nests (PSN) by means of "3 M" plus besides that it can also be done by larvicidation and fogging.

Adult mosquitoes can be eradicated by fumigation using insecticides (insect poison). It's not enough to just do the fumigation, because only the adult mosquitoes die with it. Mosquito larvae

do not die by fumigation. As long as the larvae are not exterminated, every day new mosquitoes will emerge from their breeding sites. The most appropriate way to eradicate mosquitoes is to eradicate the larvae with the PSN 3M Plus activity. One of the doses of insecticide for fogging and UIV is Seruni 100EC.

CONCLUSIONS AND RECOMMENDATIONS

The conclusion from the description of community service activities, among others, is by providing counseling for participants to understand and realize the importance of preventing dengue transmission by breaking the chain of dengue transmission in the form of prevention of *Aedes aegypti* and *Aedes albopictus* mosquito bites. The optimal activity is eradicating mosquito nests (PSN) by means of "3 M" plus besides that it can also be done by larvicidation and fogging.

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APPENDIX



Figure 1. Community service documentation