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The Analysis Distribution of Filariasis Vector in Sanggu Village, Southern Barito District

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Abstract

One of filariasis endemic area is located in South Barito, Central Kalimantan, and Indonesia. Finger blood surveys were first conducted in 2004 in Sanggu with 1.34% f rate. The objective of this study is to analyze the spread of filariasis vector in Sanggu, South Barito. The sample of this study is all of the mosquitoes which caught inside and outside the houses which come from 3 point of research location that includes settlement like forest, swamp and lake. The results showed that there are number of species of mosquitoes. *Culex* sp were found outside and inside the house and 5 species of mosquitoes were; *Mansonia* sp, *Culex* sp, *Anopheles* sp, *Aedes aegypti* and *Aedes albopictus* found near in the swamp, lake and forest. The conclusion of the study showed that the most caught mosquito species were *Culex* Sp and Mosquito as filariasis vector that is inside the house of 12 heads / person / hour and outside of house is 27,2 tail / person / hour. These could be influenced by the temperature and humidity in the village ranging from 24 °C - 28 °C and 84% - 90%. The prevention could be done by socializing the discovery of chronic filariasis sufferer, spraying, collecting data of chronic filariasis patient, keeping the house always clean, cleaning environment; cutting shrub or tree and its branches so that sunlight could shine the entire house.

Keywords: *Filariasis, vector, Culex sp*

Introduction

Filariasis or elephantiasis disease is a chronic infectious disease due to parasitic infection of the nematode group that attacks the human lymphatic system directly. ^[1]. Filariasis disease which occurring in Indonesia is filariasis of lymph nodes. ^[2]. the very complex factors are caused this disease which includes the worms as the agents, humans as the host, and adult mosquitoes as the vectors. More than 1.4 billion people in 73 countries are at risk of being infected with filari worms. Approximately 65% of the infected are in the Southeast Asian region, 30% in the African region, and remains are in the tropics. Lymphatic filariasis causes more than 25 million men with genital disorders and more than 15 million people with lymph oedema. ^[3].

There are three species of filariasis-causing worms: *Wuchereria bancrofti*, *Brugia malayi*, and *Brugia timori*. All of these species are existed in Indonesia, but more than 70% of filariasis cases in Indonesia are caused by *Brugia malayi* ^[4,5]. From the data reported in 2002-2014

cumulatively there are 14,932 chronic cases of filariasis cases spread in 418 districts / cities in 34 provinces in Indonesia. While the highest defect cases is in East Nusa Tenggara with 3,175 cases in 20 districts / cities ^[6].

In 2014, there are cases of chronic filariasis as 227 cases from 14 districts / cities in Central Kalimantan Province which classified as endemic filariasis and one of them is located in South Barito. ^[6]. The filariasis morbidity highest case of South Barito is located in Sanggu Village with the ratio 11 per 100.000 populations with Mf rate of 1.1%. *B. Malayi* microfilaria was found^[7]. In 2016, 6 positive people were found as another new case of filariasis in Sanggu village which not as much as in 2014 ^[7]. Sanggu village has a total area of 5,800 ha / km², 2,152 ha / km² of forest, 300 ha / m² of swamps, rivers / lakes with 30 hectares of land and a rice field of 800 ha / m² ^[8,9] which resulting to be a place of mosquitoes habitat to live and cause filariasis disease. The purpose of this research is to analyze the spread of filariasis vector in Sanggu Village, South Barito.

Material and Method

The study sample was all mosquitoes which caught inside and outside the home. Sampling was conducted at 3 points on settlements such as forests, swamps and rivers / lakes located in Sanggu Village, South Barito Regency. The Parameters used in this study to measure filariasis vector density are as follows; ^[10,11,12,13] :

Man Biting Rate (MBR).

Man Hour Density (MHD)..

Abundance Relative.

Figures Frequency.

The species domination number.

Finding

The results of mosquitoes caught is conducted on 3 houses in Sanggu Village with inside and outside the house using aspirator located in swamp, lake, and forest are as follows:

Number of mosquito species inside and outside the house

Swamp area, indicating that the mosquitoes caught outside the house amounted to 14 consisting of 3 species; *Mansonia* sp, *Culex* sp and *Aedes* sp. The highest number was *Culex* sp total with 8 (57.14%) and the lowest catch was *Aedes* sp with 2 (14.3%). While in the house amounted to 1 consists of 1 species, namely *Aedes aegypti* (100%).

Lake area showed that the mosquitoes caught outside the house numbered in 44 consisting of 5 species; *Mansonia* sp, *Culex* sp, *Aedes aegypti*, *Aedes albopictus* and *Anopheles* sp. The highest number of catches was 18 *Culex* sp (40.9%) and the lowest catch was *Anopheles* sp with 3 (6.8%). While in the house amounted to 15 consisting of 4 species; *Mansonia* sp, *Culex* sp, *Aedes aegypti* and *Anopheles* sp. The highest number of catches was *Culex* sp totaling 6 (40%) and the lowest catch was *Mansonia* sp with 1 (13.3%).

Forests area, indicating that the mosquitoes caught outside the house amounted to 10 tails consisting of 2 species; *Culex* sp and *Aedes aegypti*. The highest number of catches was *Aedes aegypti* (9%) and the lowest catch was *Culex* sp (1%). While in the house

amounted to 14 tails consisting of 3 species; *Mansonia* sp, *Culex* sp, and *Aedes aegypti*. The highest number of catches was 8 *Culex* sp (57.1%) and the lowest catch was *Aedes aegypti* with 1 (13.3%).

Relative abundance, frequency and species dominance

In the house near the swamp found the dominance of the mosquito is *Aedes aegypti* with the acquisition of the dominance is 8 and with the frequency value is 0.08. Then the house near the lake obtained the highest dominant number of mosquitoes namely *Culex* sp and *Aedes aegypti* with the acquisition of the dominance is 20 and with the frequency value is 0.5, while the lowest dominant number of mosquitoes in the house is *Mansonia* sp with the acquisition of the dominance is 0.53 and with a frequency value of 0.08. The house near the forest obtained the highest mosquito dominance in the house is *Culex* sp with the acquisition of the dominance number is 34.2 and with the frequency value is 0.6, while the lowest dominant number of mosquitoes in the house is *Aedes aegypti* with the acquisition of dominance is 0, 57 and with a frequency value of 0.08.

Outside the house near the swamp found the highest dominance of mosquitoes namely *Culex* sp with the acquisition of the dominant figure is 37.6 and the rate of frequency is 0,66, while the lowest dominant number of mosquitoes outside the home is *Aedes aegypti* with the acquisition of the dominance figure is 2.27 and with a frequency value of 0.16. Then the house near the lake obtained the highest mosquito domination rate outside the home is *Culex* sp with the acquisition of the dominance figure is 61.3 and with the frequency value is 1.5, while the lowest dominant mosquito numbers outside the home is *Anopheles* sp with the acquisition of the dominance figure is 1, 70 and with a frequency value of 0.25. The nearest forest house dominant number of mosquitoes outside the house is *Aedes aegypti* with the acquisition of the dominance figure is 67.5 and with the frequency value is 0.75, while the lowest dominant number of mosquitoes inside the house is *Culex* sp with the acquisition of the dominance is 0.8 and with a frequency value of 0.8.

Population Density

Inside the house (Indoor) near lake, the mosquito population density is caught inside the home of each person / h. The highest catching species of mosquitoes

are *Culex* sp and *Aedes aegypti* with 9.09 individuals per hour and the lowest catch is *Mansonia* sp with 2 per person per hour.

Outside the house (Outdoor) near the lake, the population density of mosquitoes caught outdoors each person / hr mosquito species with the highest catch is *Culex* sp with 27.2 for each person per hour and the lowest catch is *Anopheles* sp with 4.6 per person per hour.

Mosquitoes Biting Activity Patterns

Inside the house, it was found that the highest peak fluctuation is *Mansonia* sp caught with human baiting inside the house at 24.00 - 01.00 WIB (western Indonesian time) and *Aedes* sp caught with human baiting inside the house at 03.00 - 04.00 WIB located in the forest. The details are shown as follows, the highest fluctuation of *Mansonia* sp is at 24.00-01.00 WIB ie 7,57, *Culex* sp the highest peak of fluctuation is at 23.00-24.00 WIB ie 4.54, *Aedes* sp's peak fluctuation is at 05.00-06.00 WIB ie 4.54 and *Anopheles* sp's the highest peak of fluctuation is at 23:00 to 24:00 pm with 3.03.

Outside the house, the highest fluctuation of *Aedes* sp caught with human baiting is at 02.00 - 03.00 WIB located in the lake. The highest fluctuation of *Aedes* sp is at 02.00 - 03.00 WIB ie 12.1; *Culex* sp is at 02.00 - 03.00 WIB ie 7, 57, *Mansonia* sp at 19.00 - 20.00 WIB ie 3.03.

Environmental conditions

Swamp, the environmental condition of Sanggu village is adjacent to the swamp of the waste water discharged directly to the soil, the number of trees and the existence of wild plants like bushes around the house, so it could support mosquito's breeding which cause filariasis, besides, the optimum temperature conditions is 25- 28 °C and 84-90%. Thus, a moist condition could also affect mosquito growth.

Lake. the environmental conditions of Sanggu villages is located around the lake which known as a plenty of water plants such as water hyacinth, thus, it could support mosquito's breeding, in addition, the optimum temperature conditions is ranging from 26-28 °C and the humidity level is 84-89%.

Forest. the environmental conditions of Sanggu village is close to the forest which known as much luses, trees and puddles (which favoured by mosquitoes).

It could support mosquito's breeding, besides, the optimum temperature condition ranges from 26-28 °C and 84-89% for humidity's level.

Discussion

The species of mosquito *Mansonia* sp and *Culex* sp:

Mansonia sp

These mosquitoes are always caught either by using human baiting outdoors which close to the swamp. The species of mosquitoes were found outside the house with the highest fluctuation at 19.00 - 20.00 WIB (3.03%) and the lowest fluctuation at 04.00 - 05.00 WIB (1.51%). The mosquitos are very fond of a full water area with a water plants such as hyacinth, located in lake. In the house around the lake, found this mosquito species with the highest fluctuation at 22.00 - 23.00 WIB (1.51%) and in outdoors, found this species of mosquitoes with the highest fluctuation at 04.00 - 05.00 WIB (3.03%). As for the mosquito in the forest, they are very fond of a place with much of trees lush, especially if the tree has a cavity-range on the trunk. Inside the house around the forest, found the mosquito species with the highest fluctuation is at 24.00 - 01.00 WIB (7.57%). These circumstances is due to several factors, called temperature and humidity that support mosquitoes activity or biting with 25 °C temperature and 90% humidity level. .^[14] Thus, it could affect mosquito's activeness. And also 60% moist's level is the lowest limit for mosquito to life^[6].

Culex sp

These mosquitoes are active throughout the night and are always caught either by using human baiting outdoors or close to the swamp. This mosquito species was found outside the house near the swamp with the highest fluctuation at 22.00 - 23.00 WIB (6.06%) and the lowest fluctuation at 04.00 - 05.00 WIB (1.51%). This mosquito is also located in a lot of water plants such as water hyacinth. In the house around the lake, found the mosquito species with the highest fluctuation at 23.00 - 24.00 WIB (4.54%) and outdoors, found this species of mosquitoes with the highest fluctuation at 02.00 - 03.00 WIB (7.57%) and lowest in the hours before its 21.00 - 22.00 WIB (3.03%). This mosquito is also located in the area much of lush trees, and has cavities on the trunk. Inside the house near the forest, mosquito species are found the highest fluctuation at 02.00 - 03.00 WIB (4.54%), outdoors; the mosquitoes

are with the highest fluctuation at 23.00 - 24.00 WIB (1.51%). These circumstances is due to several factors, called temperature and humidity that support mosquitoes activity or biting with 25 °C temperature and 90% humidity level. .^[14] Thus, it could affect mosquito's activeness. And also 60% moist's level is the lowest limit for mosquito to life^[6].

Factors affecting mosquito communities:

1. Population Density

The mosquito population in the house of each person / hour of *Aedes aegypti* mosquito species is 2 amounts/ person / hour near the swamp. *Mansonia* sp with 2 amounts / person / hour, *Culex* sp with 9.09 amounts/ person / hour, *Aedes aegypti* with 9.09 amounts / person / hour and *Anopheles* sp 3.03 amounts/ person / hour near the lake. And found *Mansonia* sp with 7.6 amounts / person / hour and *Culex* sp with 12 amounts/ person / hour.

2. Figures of frequency and dominance of mosquitoes

The largest frequency number of *Mansonia* sp mosquitoes inside the house was 0.41 also in the forest and outdoors, and 0.41 near the lake. While the largest frequency number of *Culex* sp mosquitoes is 0.6 located in the forest and outdoors, 0.66 is located in the swamp. The largest dominant number of *Mansonia* sp mosquitoes in the 14.63% house located in the forest and outside of the house 8.43%. While the dominant number of *Culex* sp mosquitoes inside the house is 34,2% located in forest and out of house, 61,3% is located near the lake.

Frequency rate is the ratio between the numbers of species of mosquitoes found in the capture to the number of arrests which means the most species of mosquitoes found in the 12 hour arrest. The dominant figure is the product of the multiplication of relative and the mean frequency is the acquisition of the numbers obtained in the most dominant (high) mosquito species that bite humans.

Since the vaccine for prevention does not yet exist, thus, the only way to prevent is to avoid getting bitten by mosquitoes. Since the mosquitoes are very large in amount and widespread, this effort needs to be done by the whole community by doing as follows:

1. Clean the sewer / gutter

2. Maintain fish in ponds

3. Wear bed nets when sleeping

4. Apply the medicine or cream anti mosquitos

The treatment could use diethylcarbamazine citrate (DEC, Banocide®, Hetrazan®, Notezine®); Given DEC 3 x 1 tablet 100 mg for 10 consecutive days and paracetamol 3 x 1 tablet 500 mg in the first 3 days. This treatment has been shown to be more effective when followed with once-daily treatment with low-dose DEC (25-50 mg / kg BW) for 5 consecutive years or salt consumption given DEC (02-0.4 mg / kg BW) during 5 years.^[5]

Conclusion

The highest mosquito population density inside the house is *Culex* sp with 12 amounts/ person / hour located in the forest, while the lowest is *Mansonia* sp for 2 amounts / person / hr located in the lake. The highest population density of mosquitoes outside the house is *Culex* sp with 27.2 amounts / person / hr located near the lake, again, while the lowest is *Culex* sp with 2 amounts/ person / hour but located in the forest. There are 5 (five) species of mosquitoes caught at the time of research inside and outside the house, namely *Mansonia* sp, *Culex* sp, *Anopheles* sp, *Aedes aegypti* and *Aedes albopictus*. Species of mosquitoes caught at the time of the study were filariasis-transmitting vectors of *Mansonia* sp and *Culex* sp. While those that acted as filariasis transmission vectors were *Culex* sp most caught outdoors with 27.2 amounts / person / hr located in the lake.

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Ethical Clearence: This study was conducted after obtaining approval from the study respondents

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