

CERTIFICATE

No.: 1003/STIKes.MK./P3M/IC/IX/2021

This certificate is awarded to

Dr. Hetty Ismainar, SKM, MPH

as Oral Presenter

The 1st International Allied Health Student Conference (IAHSC) 2021

"The Role of Civitas Academica through Research and Community Engagement Results in the Enhancement of Multidisciplinary

Collaboration on Global Health Sciences"

Zoom Cloud Meeting, Jakarta 14th –15th September 2021

STIKes MITRA KELUARGA

PPNI Accreditation No.:1116/DPP.PPNI/SK/K.S/VIII/2021

Participant 3 SKP, Speaker 4 SKP, Moderator/Committee 3 SKP

PERSAGI Accreditation No.:773/DPP-PERSAGI/SK/IX/2021

Participant 1 SKP, Speaker 2 SKP, Moderator/Committee 1 SKP

IAI Accreditation No.:Kep-117/SKP/PD.IAI/DKI.JKT/1822/VI/2021

Participant 6 SKP, Speaker 3 SKP, Moderator/Committee 1 SKP



Dr. Susi Hartati, S.Kp., M.Kep., Sp.Kep.An.

Director



Head of Center for Research and Community

Enggagement























































PROCEEDINGS

The 1st International Allied Health Student Conference (IAHSC) 2021

"The Role of Civitas Academica through Research and Community Engagement Results in the Enhancement of Multi-disciplinary Collaboration on Global Health Science"







Indonesia, September 14-15 2021



www.stikesmitrakeluarga.ac.id



附 info@stikesmitrakeluarga.ac.id



📵 STIKes Mitra Keluarga



+62 858-1362-5143





PROCEEDINGS

THE $1^{\rm st}$ INTERNATIONAL ALLIED HEALTH STUDENT CONFERENCE 2021 'THE ROLE OF CIVITAS ACADEMICA THROUGH RESEARCH AND COMMUNITY ENGAGEMENT RESULTS IN THE ENHANCEMENT OF MULTIDISCIPLINARY COLLABORATION ON GLOBAL HEALTH SCIENCE'

SEPTEMBER 14-15, 2021 BEKASI, INDONESIA

ISBN : 978-623-98083-0-3

Editor : Anung Ahadi Pradana

Layouter : Anung Ahadi Pradana

Design Cover : Anung Ahadi Pradana

Publisher MITRA PRESS

Jl. Pengasinan Raya No.1

Rawa Semut-Margahayu, Bekasi Timur, Bekasi, Jawa Barat 17113

Phone: (021)88345997, Email: publishing@stikesmitrakeluarga.ac.id

First Publication, September 2021

Copyright@2021 by STIKes Mitra Keluarga.

All rights reserved. No part of this publication maybe reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage and retrieval system, without permission in writing from the publisher.





























TABLE OF CONTENT

Proceedings
Table of ContentII
Welcome MessageVII
The BoardsX
The SpeakersXII
About OrganizerXIII
Conference ProgramXIX
List of Abstract
NURSING
The Effectiveness of Hypnosis in Nursing Implementation
Improving Public Awareness on Peritoneal Dialysis Through Public Health Nurses in
Aceh: a Document Review
Analysis of the Physical Home Environment and Community Behavior Towards
Incidence of Dengue Hemorrhagic Fever in Riau Province
Students' Knowledge of COVID-19 Positive Postpartum Mothers' Care6
The Effectiveness of Autogenic Relaxation on Patient's Anxiety7
Factors Affecting Family Knowledge on Hypertension Disease: A Narrative Review8
Giving Commitment Acceptance Therapy and Family Psychoeducation in Caring for
Clients with Ineffective Health Care Using Watson Theory Approach9
The Effect of Bay Leaf (Syzygium Polyanthum) in Reducing Uric Acid Levels10
The Factors that Affect of Sleep Quality for Nursing Students Bachelor of Nursing at
the Faculty of Nursing Science Muhammadiyah University Jakarta in 202111
The Effect of Group Education Using Online Media on Self Care for Obese Among
Students in Faculty of Nursing Muhammdiyah Jakarta 2021
The Determinant of the Incident of Hypertension in Balekambang Health Center,
Bendungan Village, Jonggol Sub-Distric in the Year 2021
The Effectiveness of Oral Sucrose on Pain During Invasive Procedures in Premature
Infants: Scoping Review
Risk of Post-Stroke Pneumonia During Hospitalization
Use of Mobile-App for Older People with Chronic Diseases to Cope with the
COVID-19 Pandemic





























	Prevention of COVID-19 Transmission in Islamic Boarding Schools (Pesantren):	17
	Literature Review	
	Relation Between Physical Activity and Blood Pressure in Patients with Hypertension	18
	Can Zinc Consumption Reduce Dysgeusia Symptoms in COVID-19 Patients?: A	10
	Narrative Review	19
	Mental Health Nursing Practice In Supporting The Task Of Indonesian National	• 0
	Army: Literature Review	20
	Pronational Position of Oxygen Saturation And Pulse Frequency In Low Birth	
	Weight Babies	21
	Nursing Care for the Patient Mrs.Y with Ischemic Stroke with Complicated Factors	
	Hypokalemia in the Cempaka Room of West Bekasi Private Hospital During the	
	COVID-19 Pandemic	22
	Family Support of Youth with Thalassemia	23
	The Effect of Social Support on Perinatal Depression: Literature Review	24
	Nursing Sectio Care Indication with Heavy-Severe Pre-Eclampsia	25
	The Relationship Between Chemotherapy and Psychological Problems in Breast	
	Cancer Patients	36
	Relationship of Knowledge and Attitude of Mothers with Exclusive Breastfeeding	
	Practices in District Tulang Bawang Barat 2021	27
	MEDICAL LABORATORY TECHNOLOGY	
	Antibacterial Activity of Ketapang (Terminalia catappa L.) Leaves Extract Against	
	Pathogenic Bacteria Edwardsiella tarda Isolated from Catfish (Clarias batrachus)	29
	Examination of Alcohol Levels in Alcohol Drinkers Using the Alcohol Saliva Strip	
	Test	30
	Overview of Lactic Acid Levels in Coronavirus Disease (COVID-19) Patients at One	
	of the Private Hospitals in Bintaro South Tangerang	31
	The Illustration Grow of Contaminant Fungi at White Bread Based on Temperature	
	and Humidity	32
	Identification of Formalin in Unbranded Wet Noodles at Traditional Markets of	
	Tambun Selatan Using Test Kit Methods and UV-VIS Spectrophotometry	33
	Overview of Bacterial Cause Urinary Tract Infections and Resistance Antibiotics at	
	Hospital in Depok	34
The 1st	International Allied Health Student Conference (IAHSC) 2021	
Indones	ia, September 14-15 2021	
KEMENTERIAN KESEHATAN	Marine Park Chula (Substitute A Chula (Substitute	3

































Indonesia, September 14-15 2021









The 1st International Allied Health Student Conference (IAHSC) 2021

















The Relationship Between the Application of the Gluten Free Casein Free Diet and
the Physical Activity of Children with Autism Spectrum Disorder51
Dekazi Games as Interactive Nutrition Education Media for School-Age Children in
Era 4.0
Knowledge on Soft Drinks, Mass Media and the Peers Role and Its Relationship with
the Habitual Consumption of Soft Drinks Among High School Students in Bekasi53
Relationship Between Knowledge on Soft Drinks and Consumption of Iron Source-
Containing Foods with Learning Achievement of School Going Adolescent Girl in
Bekasi54
The Correlation Between Fat Intake and Stress Level Toward Menstrual Cycle on
Female Students at SMAN 107 Jakarta55
The Relationship Between Stress Levels and the Risk of Eating Disorders with Eating
Behavior Among Adolescents at SMA Islam PB Soedirman Bekasi During the
COVID-19 Pandemic56
Effect of Oral Nutrition Supplement Containing Tapioca Resistant Maltodextrin on
Satiety, Hunger and Appetite in Healthy Adult57
Relationship Between Knowledge, Nutritional Adequacy Level, Tea Drinking Habits
and Nutritional Status with Anemia Among Adolescent Gilrs in SMK Pramata Mulya
Karawang58
Sensory Evaluation of High-Protein Oral Nutritional Supplement from Egg Albumin
Based
The Promised Benefits of Nutriquiz Via Instagram for Improving Nutrition
Knowledge Among Teenagers
Interactive Nutrition Education Using "Kuliah Whatsapp (Kulwap)" for Adolescent
During Pandemic61

























If you want to contribute & provide the best healthcare service, Mitra Keluarga may be for you!

Center of Excellences

- Oncology Center (Oncology Surgery & Chemotherapy Center)
 Brain & Spine Center
- Breast Clinic Diabetes & Thyroid Center Endoscopy Center Fertility Reproductive Clinic
- Macro & Micro Surgery Heart & Vascular Center Kid's Foot Clinic Minimal Invasive Surgery
- Neurosurgery Orthopedic Center Pain Clinic Aesthetic Plastic Surgery
- Mother & Child Surgery Rehab Center Sleep Disorder Clinic Slim & Health Sport Therapy
- Urology Center
 Vascular Center

Key Medical Procedures

- Laser Surgery Allergy Immunology Breast Surgery Interventional Cardiovascular
- Cardiovascular Thoracic Surgery Digestive Surgery Endocrine Metabolic Disorders
- Gastroenterology & Hepatology Geriatrics Hemato & Oncology Interventional Radiology
- Kidney & Hypertension Neurosurgery Oncology Surgery Orthopedics & Traumatology
- Pediatric Surgery Plastic Surgery Tropical Infectious Disease Urology Vascular Surgery

24/7 Services

- ER & Ambulance Cardiac cathetherization (Primary PCI) Pathology Laboratory Pharmacy
- Diagnostic Imaging (Bone Densitometry, Mammography, MRI, MSCT Scan, Dental Panoramic)

Special Care Unit

• ICU • ICCU • PICU • NICU • IMC • Perinatology • Haemodialysis • etc

Bekasi | Bekasi Timur | Bintaro | Cibinong | Cibubur | Cikarang | Depok | Gading Serpong Kalideres | Kelapa Gading | Kemayoran | Kenjeran | Jatiasih | Pondok Tjandra | Surabaya | Tegal | Waru

















ANALYSIS OF THE PHYSICAL HOME ENVIRONMENT AND COMMUNITY BEHAVIOR TOWARDS INCIDENCE OF DENGUE HEMORRHAGIC FEVER IN RIAU PROVINCE

Hetty Ismainar, 1,* Beny Yulianto, 2 Nila Puspita Sari, 3 Eva Afiani 4

Lecturer, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau. Jl Mustafa Sari No 5 Tangkerang Selatan Pekanbaru, Riau. Corresponding author: ismainarhetty@yahoo.co.id

- Lecturer, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau 2.
- Lecturer, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau 3.
- 4. Student, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau

Abstract

Dengue Hemorrhagic Fever (DHF) is still a health problem in Meranti Islands Regency. There has been an increase of 15-25% of cases every year since 2017-2019. Determine the correlation between the physical home environment and community behavior towards DHF incidence which include: ventilation, air temperature, water reservoirs, knowledge, and attitudes. It was observational analytic with a cross-sectional design. This research was conducted for three months (February-April 2020). The research subject was 94 samples were selected by the purposive sampling technique. The research instrument was a structured questionnaire and observation sheet. Data analysis using Chi-square test. There were 49 (53.3%) cases of DHF with the physical home environment that was not following the health standards, namely: ventilation (bad=70.7%), air temperature (bad=77.2%), water reservoirs (bad=59.8%), knowledge (low=55.4%), and attitude (negative=55.4%). There was a significant correlation between ventilation (p=0,002), air temperature (p=0,020), water reservoirs (p=0.027), knowledge (p=0.008), and attitudes (p=0.000) toward incidence of DHF (p-value <0.05). The physical home environment and community behavior are related to DHF incidence. Good coordination between health promotion team, local government in providing health education and socialization of healthy homes by empowering local communities.

Keywords: Community behavior, Dengue Hemorrhagic Fever, Physical home environment

Reference

Departemen Kesehatan R.I. 2007. Direktorat Jenderal Pengendalian Penyakit dan Penyehatan Lingkungan (DIT.JEN. PP & PL). Survai Entomologi Demam Berdarah Dengue, Jakarta

Dinas Kesehatan Provinsi Riau. 2019. Profil Kesehatan 2019.

Fauji, R.R. 2020. Hubungan Sanitasi Lingkungan Dan Perilaku Masyarakat Terhadap Kejadian Penyakit Demam Berdarah Dengue di Wilayah Kerja Puskesmas Dirgahayu Kabupaten Kotabaru Tahun 2020. Fakultas Kesehatan Masyarakat Banjarmasin. UNISKA. 1-8

Ghina, D.F, Anwar, C. 2017. Hubungan Faktor Lingkungan Fisik Rumah Dengan Kejadian Penyakit Demam Berdarah Dengue (DBD) Di Wilayah Puskesmas Cilacap Selatan di Kabupaten Cilacap Tahun 2016. Buletin Kesehatan Lingkungan Masyarakat. 36(1); 35-41

Gupta N, Srivastava S, Jain A, Chaturvedi UC. 2012. Dengue in India. Indian J Med Res. 136(3):373-390.

Ipa M. Laksono. A.D.2014. Analisis Potensi Promosi Pengendalian Penyakit Demam Berdarah Dengue Melalui Youtube. Buletin Penelitian Sistem Kesehatan. 2014; 17(1) 97-106

Etc.



























ISBN 978-623-98083-0-3



Mitra Press

ANALYSIS OF THE PHYSICAL HOME ENVIRONMENT AND COMMUNITY BEHAVIOR TOWARDS INCIDENCE OF DENGUE HEMORRHAGIC FEVER IN RIAU PROVINCE

Hetty Ismainar, 1* Beny Yulianto, 2 Nila Puspita Sari, 3 Eva Afiani 4

- 1. Lecturer, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau Corresponding author: ismainarhetty@yahoo.co.id
- 2. Lecturer, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau
- 3. Lecturer, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau
- 4. Student, Department of Public Health, STIKes Hang Tuah Pekanbaru, Riau

Abstract

Background. Dengue Hemorrhagic Fever (DHF) is still a health problem in Meranti Islands Regency. There has been an increase of 15-25% of cases every year since 2017-2019. **Purpose.** Determine the correlation between the physical home environment and community behavior towards DHF incidence including ventilation, air temperature, water reservoirs, knowledge, and attitudes. **Methods.** It was observational analytic with a cross-sectional design. This research was conducted for three months (February-April 2020). The research subject was 94 samples were selected by the purposive sampling technique. The research instrument was a structured questionnaire and observation sheet. Data analysis using Chi-square test. **Results** There were 49 (53.3%) cases of DHF with the physical home environment that was not following the health standards, namely: ventilation (bad=70.7%), air temperature (bad=77.2%), water reservoirs (bad=59.8%), knowledge (low=55,4%), and attitude (negative=55.4%). There was a significant correlation between ventilation (p=0,002), air temperature (p=0,020), water reservoirs (p=0,027), knowledge (p=0,008), and attitudes (p=0,000) toward incidence of DHF (p-value <0.05). **Conclusion.** The physical home environment and community behavior are significant correlations to DHF incidence. Good coordination between health promotion team, local government in providing health education, socialization of healthy homes by empowering local communities.

Keywords: Community behavior, Dengue Hemorrhagic Fever, Physical home environment,

INTRODUCTION

Dengue Hemorrhagic Fever (DHF) is an infectious disease caused by the dengue virus and is transmitted through the bite of the Aedes aegypti (Ghina, 2017). Dengue is an acute viral infection with potentially fatal complications. The first clinically recognized epidemics of dengue occurred almost simultaneously in Asia, Africa, and North America in the 1780s. (Gupta, 2012). This DHF disease was first reported in Indonesia in 1968 in Jakarta and Surabaya with 48 sufferers and a mortality rate of 41.3% (Gina, 2017).

Almost all regions in Indonesia suffer from DHF. In Indonesia, the number of dengue cases reported in 2019 was 138,127 cases with an Incident Rate of 51.48 cases per

100,000 population, while the target was < 49 cases per 100,000 population. Riau Province is still at an incidence of 59.9 cases per 100,000 population and is one of the 23 provinces in Indonesia that did not meet the target. Meranti Islands is one of the regencies in Riau province that experiences an increase in dengue cases every year. In 2013 there were 98 cases, in 2014 it was 118 cases and in 2015 it increased to 254 cases (Dinkes, 2019, Ministry of Health 2019)

This disease is related to environmental conditions and people's behavior. Environmental conditions greatly affect the spread of the Aedes aegypti mosquito around us. Risk factors associated with DHF include behavior, temperature, humidity, rainfall, altitude, the presence of water reservoirs, and

mosquito breeding places. DHF is naturally influenced by ecological status with several physical environmental factors. The related physical environment is the type of water reservoir, altitude, rainfall, wind speed, air temperature and humidity, biological environment, and social environment (DIT.JEN. PP & PL, 2007), Prasetyani, 2015

The results of the initial survey conducted in Banglas Village, Meranti Regency, found that the houses looked damp, the garbage was not managed properly, rainwater collections used jars made of cement and were not closed, the ventilation of the house was not good, the lighting in the house was not good, and the environment their house looks very dirty. This condition is caused by the lack of public knowledge about the importance of keeping the environment clean, besides that, the attitude of the people who are less concerned also illustrates that the behavior of the people in the area is still lacking. Based on the initial survey, the researchers wanted to know the relationship between the physical environment of the house and the behavior of the community with the incidence of DHF.

METHOD

It was an observational study with a cross-sectional design. This research was conducted for three months (February-April 2020). The population was 1645 heads of household. 94 respondents participated selected by purposive sampling technique. The research location is in Banglas Village, Meranti Regency, Riau. The dependent variable is the incidence of DHF, the independent variables are the physical environment of the house and the behavior of the community, namely: ventilation, air temperature, water reservoirs, knowledge, and attitudes. For the physical environment of the house, researchers conducted field observations. Ventilation indicator with an eligible category if ventilation >10%. The air temperature with a good category of 25°C-

28°C. Water reservoirs good category if they are available and closed. As for the variables of knowledge and attitudes using a structured questionnaire that has been tested for validity and reliability. A total of 20 questions using an ordinal scale. Data were analyzed by univariate and bivariate with chi-square test with 95% confidence interval. The Ethics Committee for Health Research, STIKes Hang Tuah Pekanbaru, issued ethical clearance for this study (No. 0209/KEPK/STIKes-HTP/V/2020). Each participant signed written informed consent.

RESULTS

Characteristics of respondents seen from the education level. The majority of low education 57(61.9%), namely Elementary School 20(21.7%) and Junior High School 37(40.2%). Meanwhile, only 35 (37.1%) have higher education, with 33 (35.9%) senior high school and college 2(2.2%). The frequency distribution of univariate analysis between the independent variable and the dependent variable can be seen in Table 1 below.

Tabel 1.
Frequency Distribution of Home Physical
Environment, Community Behavior, and DHF
Incident

Variable	f (%)			
DHF incidence				
Yes	49 (53,3%)			
No	43 (46,7%)			
Ventilation				
Good >15-25%	27 (29,3%)			
Bad \leq 15-25%	65 (70,7%)			
Air Temperature				
Good 25°C-28°C	21 (22,8%)			
$Bad \le 25^{\circ}C > 28^{\circ}C$	71 (77,2%)			
Water reservoirs				
Yes	37 (40,2%)			
No	55 (59,8%)			
Knowledge				
High	41 (44,6%)			
Low	51 (55,4%)			
Attitude				
Positive	41 (44,6%)			
Negative	51 (55,4%)			
Total	92 (100%)			

Table 1 showed that there is 53.3% incidence rate of DHF. Bad ventilation 70.7%, bad air temperature 77.2%, water reservoirs that do not meet standards 59.8%, low knowledge, and negative attitude is 55.4%. The results of

the bivariate analysis of the significant correlation between the physical home environment, community behavior, and the incidence of dengue fever can be seen in Table 2 below.

Table 2. Statistical results of the physical home environment and community behavior related to DHF incidence

DHF incidence					95% CI	
Variable	Yes	No	p-value	POR	Lower	Upper
Ventilation						
Bad ≤10 %	Bad ≤10 % 42 (64,6 %) 23 (35,4%) 0,002* 5		5,217	1,920	14,178	
Good >10%	7 (25,9 %)	20 (74,1%)				
Air Temperature	,	, ,				
Good 25°C-28°C	43 (60,6%)	28 (39,4%)	0,020*	3,839	1,331	11,078
Bad $\leq 25^{\circ}\text{C} > 28^{\circ}\text{C}$	6 (28,6%)	15 (71,4%)				
Water reservoirs						
Good	35 (63,6%)	20 (36,4%)	0,027*	2,875	1,214	6,808
bad	14 (37,8%)	23 (62,2%)				
Knowledge						
High	15 (36,6%)	26 (63,4%)	0,008*	3,467	1,464	8,208
Low	34 (66,7%)	17 (33,3%)				
Attitude						
Positive	42 (82,3%)	9 (17,6%)	0,000*	22,667	7,649	67,166
Negative	7 (17,1%)	34 (82,9%)				

Ket: * (signifikan)

Table 2 reveals that the results of statistical tests show that the five independent factors are related to the incidence of DHF with p-value <0.05. ventilation (p-value 0.002, POR 5.217), air temperature (p-value 0.020, POR 3.839), water reservoirs (p-value 0.027, POR 2.875), knowledge (p-value 0.008. POR 3.467), and attitudes (p-value 0.028, POR 22.667). POR value > 1 means that the head of the family whose physical home environment and behavior are bad/ low/negative are at risk of developing DHF disease. The negative attitude of respondents is at the highest risk of DHF.

DISCUSSION

Home Physical Environment

In this study, the physical environment of the house is focused on three variables, namely: ventilation, air temperature, and water reservoirs. The results of statistical analysis of these three factors were a significant correlation with the incidence of DHF (p < 0.05).

1. Ventilation

Ventilation in this study is the exchange of air in the house with the surrounding environment which serves to supply oxygen in to the room to maintain humidity. In this study, 70.7% of respondents had poor ventilation and were a significant correlation with the incidence of DHF (pvalue = 0.002). Sholihah's research (2014) said that ventilation has a significant effect (p-value = 0.026). The study showed that ventilation is eligible if the size is >10% of the floor area. A good measure of ventilation is the most basic DHF prevention effort because it relates to the condition or construction of the house that is occupied daily. Therefore, to avoid the community from DHF, it is necessary to educate the public about the prevention, symptoms, and management of DHF.

2. Air Temperature

Temperature categories that can affect the development of Aedes Egypt are divided into 2, namely good (25°C-28°C) and not good (< 25°C and > 28°C). Temperature is an important environmental parameter in increasing vector breeding, mosquito gonotrophic cycle, bite rate, shortening the incubation period of pathogens, prolonging the lifespan of adult mosquitoes. In addition, higher temperatures also increase the rate of larval development (Fitriana and Yudhastuti, 2018). In Banglas Village, the humidity of the house temperature is between 60-75%. The home environment is in a swampy area and the air circulation is not good. There are also puddles in the front and back of the house. Ideally, the humidity should be kept in the range of 45%-64% (RH Relative Humidity). The average temperature in the Banglas Village area during 2019 - 2020 is 29.2° C with a temperature range of 27.6°C - 31.7°C. This temperature is the optimum temperature for mosquito breeding.

3. Water Reservoir

In Banglas Village, Meranti Islands Regency, residents collect rainwater as a source of needs for drinking and cooking. On average, the residents have rainwater reservoirs in the form of barrels made of cement, large plastic buckets, drums, and plastic tubs. But most of these water reservoirs are not covered and there are mosquito larvae.

There is a relationship between water reservoirs and the incidence of DHF, this study is in line with researchers Mubarokah (2012), Andini (2013) who said that water reservoirs are a risk factor for mosquito breeding and affect the incidence of DHF. In addition, from the results in the field, there are also many houses of residents who do not suffer from DHF but the condition of the water is not closed and the water is left open, this certainly increases the risk of DHF occurrences in these residents. However, they

claim to use mosquito repellent which is applied to their skin every morning and night, so that even if their water area is not covered, they are still protected from mosquito bites.

Community Behavior

In this study, people's behavior is focused on two variables, namely: knowledge and attitudes. The results of statistical analysis of these two factors were associated with the incidence of DHF (p < 0.05).

1. Knowledge

In this study, the majority of people's knowledge is still low (55.4%). The results of this research are different from the research of Syarif (2013) which states that the knowledge of the community in Maen Village about DHF as a whole gets a score of 72.2% (good category). Another study by Wandasari (2014) said that the higher the knowledge, the better the behavior of preventing DHF (p<0.05). The results of this study are in line with Rianasari's research (2016) in Mustikajaya Village, Bekasi City. Knowledge related to the incidence of DHF, the results of the chi-square test obtained pvalue = 0.015 (p ≤ 0.05). Sholihah (2014), the test results with multiple logistic regression test stated that knowledge had a significant effect with p-value=0.015 and an exponential value of 0.214 times for suffering from DHF. Health education efforts for the prevention of DHF have not been optimal, public awareness of the environment in which they live is still low.

2. Attitude

In this study, the majority of respondents were still negative (55.4%) and significantly correlated to DHF incidence (p<0.05). In line with research conducted by Rahmaditia (2011), Lontoh (2016), and Macpal (2011) that there is a correlation between respondents' attitudes towards dengue prevention (p<0.05). The behavior will be sustainable if it is based on awareness and a positive attitude. Attitudes are not

brought from birth, but attitudes can be formed from the respondent's social interactions. There is a reciprocal relationship that influences individuals to influence behavior in interacting with the environment (Notoatmodjo, 2005). It's just that in this study the majority of respondents were negative. There were still respondents who did not keep their home environment clean, they still found clothes hanging in their rooms, did not close the water reservoir tightly. Public awareness and motivation are needed to improve a clean and healthy lifestyle.

Conclusion

The physical home environment (ventilation, air temperature, water reservoirs) community behavior (knowledge and attitudes) are significantly correlated to the incidence of DHF. The community of Banglas Village, Meranti Regency, Riau is expected to be able to apply a clean and healthy lifestyle in their daily lives, especially in the rainy season. Health workers must coordinate in monitoring the clean and healthy lifestyle of the community sustainably. District health officers can prioritize efforts to prevent and control dengue disease, especially in dengue endemic areas, dominant with people with low education, and areas vulnerable to dengue disease infection

Acknowledgments

We would like to thank all respondents, the Head of the Puskesmas, and the Head of the Banglas Village for their participation, and facilitators so that this research can run smoothly.

Reference

- Andani, 2011. Ilmu Kesehatan Masyarakat. Yogyakarta: Nuha Medika
- Departemen Kesehatan R.I. 2007. Direktorat Jenderal Pengendalian Penyakit dan Penyehatan Lingkungan (DIT.JEN. PP

- & PL). Survai Entomologi Demam Berdarah Dengue, Jakarta
- Dinas Kesehatan Provinsi Riau. 2019. Profil Kesehatan 2019.
- Fauji, R.R. 2020. Hubungan Sanitasi Lingkungan Dan Perilaku Masyarakat Terhadap Kejadian Penyakit Demam Berdarah Dengue di Wilayah Kerja Puskesmas Dirgahayu Kabupaten Kotabaru Tahun 2020. Fakultas Kesehatan Masyarakat Banjarmasin. UNISKA. 1-8
- Fitriana, B.R, Yudhastuti. R. 2018.
 Hubungan Faktor Suhu Dengan Kasus
 Demam Berdarah Dengue (DBD) Di
 Kecamatan Sawahan Surabaya. The
 Indonesian Journal of Public Health,
 13(1); 83-94. doi:
 10.20473/ijph.vl13il.2018
- Ghina, D.F, Anwar, C. 2017. Hubungan Faktor Lingkungan Fisik Rumah Dengan Kejadian Penyakit Demam Berdarah Dengue (DBD) Di Wilayah Puskesmas Cilacap Selatan di Kabupaten Cilacap Tahun 2016. Buletin Kesehatan Lingkungan Masyarakat. 36(1); 35-41
- Gupta N, Srivastava S, Jain A, Chaturvedi UC. 2012. Dengue in India. *Indian J Med Res.* 136(3):373-390.
- Ipa M. Laksono. A.D.2014. Analisis Potensi Promosi Pengendalian Penyakit Demam Berdarah Dengue Melalui Youtube. Buletin Penelitian Sistem Kesehatan. 2014; 17(1) 97–106
- R.Y. Rattu, Lontoh. A.J.M. 2016. Kaunang.W.P.J. Hubungan Antara Pengetahuan Dan Sikap Dengan Tindakan Pencegahan Demam Berdarah Dengue (DBD) DI Kelurahan Lingkungan Malalayang III. Pharmacon Jurnal Ilmiah Farmasi -UNSRAT. 5(1); 382-389
- Macpal, S. D. *et a*l. 2011. Hubungan Antara Pengetahuan dan Sikap dengan Tindakan Pencegahan Penyakit Demam Berdarah Dengue (DBD) pada Masyarakat di Kelurahan Batu Kota.

- Fakultas Kesehatan Masyarakat Universitas Sam Ratulangi Manado.
- Mubarokah. 2013. Upaya Peningkatan Angka Bebas Jentik (ABJ) BDB Melalui
 - Penggerakan Jumantik. Unnes Journal of Public Health. 2(3); 1-9
- Notoatmodjo, S. 2005. Promosi Kesehatan Teori dan Aplikasi. Jakarta: Rineka Cipta
- Peraturan Menteri Kesehatan Republik Indonesia Nomor 1077/Menkes/Per/V/2011 Tentang Pedoman Penyehatan Udara Dalam Ruang Rumah.
- Prasetyani, R.D. 2015. Faktor-Faktor yang Berhubungan dengan Kejadian Demam Berdarah Dengue. Majority.7(2); 61-66
- Rahmaditia, T. 2011. Hubungan Pengetahuan dan Sikap Ibu Terhadap Tindakan Pencegahan Demam Berdarah Dengue pada Anak di Wilayah Kerja Puskesmas Tlogosari Wetan Kota Semarang.
- Rianasari, Suhartono, Dharminto. 2016.
 Hubungan Faktor Risiko Lingkungan
 Fisik Dan Perilaku Dengan Kejadian
 Demam Berdarah Dengue Di
 Kelurahan Mustikajaya Kota Bekasi.

 Jurnal Kesehatan Masyarakat (eJournal). 4(5); 151-159
- Sholihah. Qoriatus. 2014. Hubungan Kondisi Sanitasi Lingkungan, Pengetahuan dan Tingkat Pendidikan Terhadap Kejadian Demam Berdarah Dengue (DBD) di Kelurahan Lontar Kecamatan Sambikereb Kota Surabaya. Universitas Negeri Surabaya. 219-228
- Syarif. I.S, Siagian. I, E, T. Kaunang. W. P. J. 2013. Pengetahuan Masyarakat Tentang Demam Berdarah Dengue Di Desa Maen Kecamatan Likupang Timur Kabupaten Minahasa Utara. *Jurnal e-Biomedik* (eBM). 1(1); 349-356
- Uno N, Ross TM. 2018. Dengue virus and the host innate immune response. *Emerg Microbes Infect*. 7(1):167. Published

- 2018 Oct 10. sdoi:10.1038/s41426-018-0168-0
- Wandasari. N. 2014. Hubungan Pengetahuan Masyarakat Tentang Penyakit Demam Berdarah Dengue (DBD) dengan Perilaku Pencegahan Demam Berdarah Dengue (DBD) di Wilayah Kerja Puskesmas Kelurahan Tegal Alur I Jakarta Barat Tahun 2014. Forum Ilmiah.12(2); 146-155