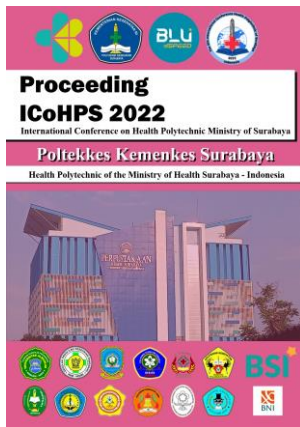


[Home](#) / [Archives](#) / Vol. 2 No. 1 (2022): Post Covid-19 Pandemic The Future of Health Care (Opportunities and Challenges)

## Vol. 2 No. 1 (2022): Post Covid-19 Pandemic The Future of Health Care (Opportunities and Challenges)



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### Articles

#### THE RESISTANCE STATUS OF *Aedes Sp* LARVAE TO TEMEPHOS IN THE PERIMETER AND BUFFER AREAS OF SURABAYA TANJUNG PERAK SEAPORT

Violita Aprilia Riyanto, Ngadino, Imam Thohari, Irwan Sulistio

1-13



#### UTILIZATION OF CELLULOSE POWDER FROM BANANA PEEL (*Musa Textilia*) TO REDUCE Fe (FERRUM) IN WATER

Fithrotul Muchlisiah, Sri Poerwati, Aries Prasetyo, Wapella Septamari Budi

14-24



#### ANALYSIS OF REDUCTION INDEX AND COMPOST RESULT ON THE PROCESSING OF TOFU DREGS USING LARVA BLACK SOLDIER FLY (*Hermetia illucens*)

Rizal Aziz Nurcahyo, Handoyo, Aries Prasetyo, Sri Poerwati

25-34



#### THE EFFECT OF AGE, YEARS OF SERVICE, AND THE APPLICATION OF HEARING PROTECTION DEVICES ON THE HEARING THINGS OF WORKERS IN NOISY WORK ENVIRONMENT

Aulia Sephia Caren, Demes Nurmayanti, Putri Arida Ipmawati, Winarko

35-41



### **RELATIONSHIP BEHAVIORAL FACTORS WITH PREVENTION OF PULMONARY TB DISEASE (Case Study in the Working Area of Sedati Public Health Center, Sidoarjo Regency in 2022)**

Rahmawati Khudori Putri, Fitri Rokhmalia, Imam Thohari, Setiawan, Suprijandani  
42-52



### **EXPLORATION OF COMMUNITY KNOWLEDGE AND ATTITUDE ON MASK WASTE MANAGEMENT IN THE KAMPUNG BARU SUB-DISTRICT**

Veronika Amelia Simbolon, Ladycia Fortuna, Luh Pitriyanti, Gustriza Erda, Syaza Halwa Amanina  
53-61



### **ANALYSIS OF LINEN MANAGEMENT EFFORTS IN MENUR MENTAL HOSPITAL SURABAYA IN 2022**

Dewi Irawati, Fitri Rokhmalia, Pratiwi Hermiyanti, Iva Rustanti, Khambali  
62-70



### **Landfill Waste Management Effort in Simomulyo Health Center Work Areas**

Khoirunnisa Dwi. W, Pratiwi Hermiyanti, Irwan Sulistio, Darjati, Fitri Rokhmalia  
71-78



### **FACTORS AFFECTING THE EVENT OF SCABIES DISEASE IN TAHFIDZUL QUR'AN NURUL FALAH ISLAMIC BOARDING PONDOK, PONCOL DISTRICT, MAGETAN REGENCY**

Alvin Baihaqi Fahlevi, Mujiyono, Hurip Jayadi, Vincentius Supriyono  
79-84



### **ANALYSIS OF NITROGEN PHOSPHAT POTASSIUM IN LIQUID ORGANIC FERTILIZER BASIC WASTE LIQUID TOFU WITH VARIATION OF TOMATO MOLE**

Galuh Yunitasari, Hurip Jayadi, Handoyo, Beny Suyanto  
95-103



### **THE RELATIONSHIP CONDITION OF THE LATRINE TO THE INCIDENCE OF DIARRHEA IN BASTIONG KARANCE VILLAGE IN 2022**

Umni Kalsum Supardi, Ainun Mardia Mokoagouw  
104-111



### **The Effect of Work Shifts on Work Stress on Employees of Textile Industry Weaving**

Budi Yulianto, Joko Windu Purno Irawan, Vincentius Supriyono, Nurlailis Saadah  
112-116



### **The Changing of Age Trend DHF Incidence in the Tanjungpinang City: a 6-year Secondary Data Analysis**

Rinaldi Daswito, Kholilah  
Samosir117-126



### **The Effectiveness of a Simple Filtration Tool Made from Bananas in Reducing PM2.5 at Fish Smoking House in Ternate City**

Susan Arba,  
Mustafa127-



132

### **The Role of Students and Teachers in the Era of the Covid-19 Pandemic in Prevention of Dengue Hemorrhagic Fever (DHF) in Jambi City, Indonesia**

Sukmal Fahri, Gustomo Yamistada, Emilia Chandra, Rusmimpong, Ruth Liana Agustina  
Sihombing133-140



### **MANAGERIAL EVALUATION OF THE MARKET'S TEMPORARY WASTE MANAGEMENT SYSTEM AND MEASUREMENT OF FLY DENSITY LEVEL (Case Study At Pucang Anom Market In 2022)**

Sylvia Nourma Syafira, Hadi Suryono, Pratiwi  
Hermiyanti141-149



### **The Effect of Work Stress, Gender, Age and Working Period Of Nurse on the Performance of Night Shift Nurse**

Annisa Alfianti. K, Demes Nurmayanti, Pratiwi Hermiyanti, Winarko, Silvia  
Saptorini150-159



### **Analysis of the Relationship between Workload and work pressure for employees at the X hospital during the Covid 19 Pandemic**

Fannidya Hamdani Zeho, Luluk Susiloningtyas, Bambang  
Wiseno160-168



### **ANALYSIS OF ERGONOMIC FACTORS ON BARBERS RELATED TO THE USE OF BARBERSHOP CHAIRS IN TANJUNGPINANG CITY**

M.Yusuf. MF, Luh Pitriyanti, Zainul  
Ikhwan169-181



**THE 5<sup>th</sup> INTERNATIONAL CONFERENCE ON HEALTH POLYTECHNICS OF  
SURABAYA (ICOHPS)**

**2<sup>nd</sup> International Conference of Environmental Health (ICoEH)**

**FACTORS AFFECTING THE EVENT OF SCABIES DISEASE IN TAHFIDZUL  
QUR'AN NURUL FALAH ISLAMIC BOARDING PONDOK, PONCOL DISTRICT,  
MAGETAN REGENCY**

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**ABSTRACT**

Scabies is a skin disease caused by the infestation and sensitization of the mite *Sarcoptes scabies hominins variant* and its products on the body. The number of scabies diseases is increasing every year. The incidence of Scabies in Magetan was 4.10% in 2013, an increase in 2014 to 7.66%. Then, having an increase in 2015 to 8.23% (Magetan District Health Office). Based on the cases of scabies disease, the sufferer is dominated by students.

The purpose of this study is to determine the condition of sanitation, personal hygiene, students' behavior, occupancy density, and room conditions at the Nurul Falah Islamic Boarding School, Poncol, Magetan, in 2022.

The type of this research is descriptive ~~and aims to discuss the problems that exist. Descriptive research is a research method carried out with the main aim of making a description or description of an objective situation.~~

The form of implementation is by using a survey approach. The instruments used are observation sheets and questionnaires.

The results showed that sanitation conditions did not fulfill the requirements, then showed poor personal hygiene at 51.4% and good personal hygiene at 48.6%. Then, it shows that students' behavior is 29.3% good and 70% bad. The density and condition of the rooms in this Islamic boarding school also do not fulfill the requirements.

Based on the study's results, it is recommended that students improve personal hygiene and good behavior. For example, not borrowing clothes from each other, washing bed linen regularly, washing hands with soap after activities, and the rooms inhabited by students must be adjusted to the student's capacity in the dormitory. This study concluded that the sanitation conditions, behavior and personal hygiene of students, and the occupancy density of Islamic boarding schools still did not meet the requirements. Improvements are needed for variables

that still do not meet the requirements so that they are better for improving health quality and minimizing disease incidence.

**Keywords:** *Boarding school, occupancy density, personal hygiene, room conditions, sanitation, Scabies, student behavior*

## **BACKGROUND**

Healthy concepts formulate that the situation is perfect physically, mentally, and socially in extensive coverage, not only free from disease or weakness/disability. In this definition, healthy is not only free from illness or disability. (World Health Organization).

Sanitation (a healthy environment) is crucial to keep the environmental health. It is because of an effort to prevent interference problem health due to factors environment that can be potentially harmful to health. Thus, environmental sanitation is an effort to repair and prevent health problems that are caused by environmental factors external to humans that conduct by individuals, communities, or countries (Chandra, Budiman, 2007:1-2).

According to Hidayat & Ramlah (2019), the relationship between room conditions and personal hygiene to the incidence of skin diseases in the female dormitory of the Sultan Hasanuddin Islamic Boarding School, Gowa explained that the variable occupancy density was seven rooms (70%) that did not complete the health requirements. The variable number of microbes is ten rooms (100%) that fulfill the requirements in the female dormitory. Then, the ventilation variable is ten rooms (100%) that do not complete the ventilation variable requirements. The variable of bathing habits can be concluded that there is no relationship between bathing habits and the incidence of skin diseases in the female dormitory of Pondok Pesantren Sultan Hasanuddin, Gowa. The variable changing clothes habits can be concluded that there is a relationship between the habit of changing clothes with the incidence of skin diseases in the female dormitory of the Sultan Hasanuddin Islamic Boarding School, Gowa.

Based on research (Kuspriyanto, 2013) at Islamic Boarding Schools in Pasuruan, East Java, it was explained a high incidence of Scabies disease was due to the lack of facilities for providing good clean water and bad behavior of students in PHBS. The most urgent condition to give attention to is increasing students' knowledge of maintaining clean and healthy livingbehavior.

## **RESEARCH METHOD**

To discuss the problems that exist in this research, the type of this research is descriptive. ~~Descriptive research is a research method that is carried out with the main aim of making a description or descriptive of an objective situation.~~ The form of implementation is

by using a survey approach. It aims to know directly about the state of sanitation facilities and the density of bedroom occupancy as well as disease complaints at the Tahfidzul Qur'an Islamic Boarding School Nurul Falah, Poncol, Magetan.

## RESEARCH RESULT

### a. Scabies Incident

*Table IV.1 Distribution of the frequency of scabies in the Nurul Falah Islamic Boarding School*

Scabies	Amount (variable)	Precentage%
Scabies	28	20%
Tidak scabies	112	80%
Total	140	100.0

*Source: Poskestren data on the incidence of scabies in the male dormitory of the Nurul Falah Islamic boarding school in January-March 2022*

Based on table VI.1 shows that 28 (20%) students suffer from scabies and 112 (80%) students do not suffer from scabies.

### b. Sanitary Conditions

*Table IV.2 Distribution of sanitation conditions in Nurul Falah Islamic Boarding School in 2022*

No.	Sanitation	Amount	Precentage%
1.	Qualify	9	43%
2.	Not qualify	12	57%
	Total	21	100%

*Source: The results of research on sanitation conditions at the Nurul Falah Islamic Boarding School in June 2022*

Based on table IV.2 shows the sanitary conditions at the Nurul Falah Islamic Boarding School which fulfill the requirements with 9 a percentage of 43% and those that do not meet the requirements with 12 a percentage of 57%.

### c. Personal Hygiene

*Table IV.3 Personal distribution hygiene at the Nurul Falah Islamic Boarding School in 2022*

<b>Category</b>	<b>Amount</b>	<b>Precentage%</b>
Good	68	48,6%
Poor	72	51,4%
Total	140	100%

*Source: assessment results of personal hygiene of Nurul Falah Islamic Boarding School in June 2022*

Based on table VI.3 shows the personal hygiene of students at the Nurul Falah Islamic Boarding School with 68 good results with a percentage of 48.6% and 72 bad with a percentage of 51.4%

#### **d. Student behavior**

*Table IV.4 Behavior distribution students at the Nurul Islamic Boarding School Falah 2022*

<b>Category</b>	<b>Amount</b>	<b>Precentage%</b>
Good	54	38,6%
Poor	86	61,4%
Total	140	100%

*Source: assessment results of the behavior of students at the Nurul Falah Islamic Boarding School in June 2022*

Based on table VI.4 shows the behavior of students in Nurul Falah Islamic Boarding School (Boy) resulting in 54 well-behaved with a percentage of 38.6% and misbehaving 86 with a percentage of 61.4%.

#### **e. Occupancy Density**

*Table IV.5 Distribution of occupancy density in Nurul Falah Islamic Boarding School 2022*

<b>Occupancy density</b>	<b>Amount</b>	<b>Precentage%</b>
<8m <sup>2</sup> inhabited/2 person	7	100%
8m <sup>2</sup> inhabited/2 person	0	0%
Total	140	100%

*Source: assessment results occupancy density in Nurul Falah Islamic Boarding School in June 2022*

Based on table VI.5 shows the condition of the density of dormitory occupancy in Nurul. Islamic Boarding School Falah (Son) does not fulfill the condition.

#### **f. Room condition**

*Table IV.6 Distribution of results room condition assessment dormitory and mosque in Nurul Falah Islamic Boarding School in 2022*

<b>Room condition</b>	<b>Amount</b>	<b>Precentage%</b>
Fulfilled	6	46%
Not fulfilled	7	54%
Total	13	100%

*Source: assessment result room condition in Nurul Falah Islamic Boarding School in June 2022*

Based on table IV.6 shows the condition of the room at Nurul Islamic Boarding School Falah that meets requirement 6 with a percentage of 46% and who do not meet requirement 7 with a percentage of 54%.

## **DISCUSSION**

### **a. Scabies Incident**

Based on the table, several sick people was 28 with a percentage of 20%, and among those who were not sick with a portion of 112 with a portion of 80%. According to the boarding school administrator's confession, Scabies at the Nurul Falah Islamic Boarding School (boy) occurred quickly and continuously. The cause of Scabies is because students do not apply personal hygiene. For example, borrowing towels and clothes from other students, students' fingernails are rarely cleaned, using unclean garments. Then later, the density of bed occupancy does not meet the requirements. Seventeen students occupy the capacity of the 3x4 room. The handling of Scabies at the Nurul Falah Islamic Boarding School (**Putra**) is also very lacking. Most students are reluctant to seek treatment because they think Scabies is only a trivial disease. So that there is no clear picture of the problem of Scabies, and no comprehensive prevention has been carried out.



Scabies is an infectious disease caused by *Sarcoptes scabies varian hominis*. Scabies is an endemic disease in many communities. This disease can affect all races and groups around the world. This disease is often found in children and young adults but can affect all ages. Incidence for men and women is the same. Scabies has four primary or cardinal signs: nocturnal pruritus, attacking a group of people, tunnels, and parasites (Zaida Victoria Narcissa Betancourth Aragón, 2010).

According to Nuraini & Wijayanti (2016), the results of the study on the relationship between gender and level of knowledge with the incidence of Scabies in the Nurul Islam Islamic boarding school in Jember, it can be concluded that the target of PHBS disease prevention in Nurul Islam Islamic boarding school should be prioritized. It refers to the boys and methods to increase students' knowledge of PHBS. To overcome this incident, Islamic boarding schools should pay attention to the personal hygiene of students and the density of bed occupancy that meets the requirements to minimize or eliminate the incidence of Scabies in Islamic boarding schools.

#### **b. Sanitary Conditions**

Based on the results of the distribution table, this study shows the sanitation conditions in the Nurul Falah Islamic Boarding School that meet the requirements 9 with a percentage of 43% and those who do not meet the requirements 12 with a percentage of 57%. Sanitation is a public health effort that focuses on monitoring the physical structure where people use it as a shelter, which affects the degree of human health. These sanitation facilities include ventilation, temperature, humidity, occupancy density, natural lighting, building construction, waste disposal facilities, human waste disposal facilities, and clean water (Azwar, 1990). This study is in line with (Mayrona et al., 2018), showing that 39 students suffer from scabies at the Matholiul Huda Al Kautsar Islamic boarding school (84.8%).

There is an influence between environmental sanitation practices, including bathroom hygiene practices, bedroom cleanliness, environmental hygiene, ablution practices, and prayer room hygiene practices, with the incidence of scabies at the Matholiul Huda Al Kautsar Islamic boarding school, Pati district. Efforts in the sanitation conditions of this Islamic boarding school should improve the quality of sanitation in bathroom hygiene, waste management, and healthy latrines to show that the category meets the requirements and avoids the

occurrence of diseases that are influenced by the sanitation of the Islamic boarding school.

### c. Personal Hygiene

The table of research results at the Nurul Falah Islamic Boarding School shows that the condition of good behavior or personal hygiene of students (male) is 68 with a percentage of 48.6% and the bad one is 72 with a percentage of 51.4%. The bad behavior of students is of various kinds, such as students' hair and fingernails being not short or clean, students not washing their hands before entering class, and students' clothes being worn alternately with other students. Maintenance of personal hygiene greatly determines health status, where individuals consciously and on personal initiative maintain health and prevent disease. This personal hygiene effort includes the cleanliness of hair, eyes, ears, teeth, mouth, skin, nails, and cleanliness in dressing.

Personal hygiene is essential to maintain. If this is not considered, various impacts will appear, especially skin diseases such as scabies. Poor personal hygiene will increase the incidence of scabies. Scabies is a contagious infectious disease caused by infection and sensitization by the mite *Sarcoptes scabiei var hominis* (Sarcoptes sp.) and its products. Transmission of scabies can occur through direct contact with scabies sufferers or contact with objects contaminated by scabies. It can cause scabies endemic (Gusni et al., 2021). Compared with research (Gusni et al., 2021), the condition of environmental factors affects the incidence of skin diseases in female students. This is because the environmental conditions in Anshor Al-Sunah Islamic Boarding School, Kampar are not optimal.

The shape of economic factors does not affect the incidence of skin diseases in female students. This is because the student's pocket money adequacy is sufficient to meet the needs of buying toiletries. The condition of personal hygiene factors affects the incidence of skin diseases in female students, and this is due to the lack of personal hygiene behavior of female students in Anshor Al-Sunah Islamic Boarding School, Kampar Regency. Compared with research (Gusni et al., 2021), the condition of environmental factors affects the incidence of skin diseases in female students, and this is because the environmental conditions in Anshor Al-Sunah Islamic Boarding School, Kampar Regency is not optimal.

Economic factors do not affect the incidence of skin diseases in female

students. It is because the student's pocket money adequacy is sufficient to meet

the needs of buying toiletries. The condition of personal hygiene factors affects the incidence of skin diseases in female students. This is due to female students' lack of personal hygiene behavior in Anshor Al-Sunah Islamic Boarding School, Kampar Regency. Efforts to personal hygiene or personal hygiene need awareness from each student, including hand hygiene, hair, feet, and skin. Poor personal hygiene can affect students, especially in this scabies incident. It is better if the boarding school administrator can help confirm poor personal hygiene from students who should not borrow clothes from each other in Islamic boarding schools. There are no borrowing towels from each other because one of the students has washed or dirty towels. And use the mattress only for yourself.

#### **d. Student's Behavior**

In this study, 54 students behaved well, and 86 students misbehaved. In theory, poor hygiene behavior is a significant factor in scabies disease. At the time of the interview, it showed that students' behavior was still lacking in clean and healthy living behavior. Such as not changing clothes twice a day, wearing clothes or praying tools with other friends, making one laundry with another friend's laundry, not using detergent when washing clothes, putting dirty clothes in one place with another friend, and not changing clothes at the same time and sweating, taking turns using soap with other friends. Those are some examples of unsanitary or healthy behavior. In addition, students' behavior in the form of cleanliness of bed linen and mattresses shows that most students do not wash the sheets and dry the mattress regularly.

Health behavior is a person's response to stimuli related to illness and disease, the health care system, food and drink, and the environment (Notoatmodjo, 2007). balanced menu, adequate rest, stress control, effort and how to respond to illness and disease, perception of illness, knowledge of causes of disease symptoms, and others. (Becker in Notoatmodjo, 2007). This research is in line with (Makful & Pirawati, 2019), which show two descriptions of the behavior of the students of the Assyafi'iyah Islamic Islamic Boarding School regarding the implementation of PHBS, while the behavior or actions of the students regarding the performance of PHBS are not suitable as many as 81 people (54.0% ), while the excellent behavior of the students was 69 people (46.0).

Thus, it can be said that students' behavior towards PHBS is not good. It is recommended that students not exchange personal items such as clothes and

towels. Students should take a bath at least twice a day, and it is recommended that students wash their hands after activities and should use soap, dry the mattress regularly, and always maintain personal hygiene and the boarding school environment. They are increasing counseling efforts in Islamic boarding schools regarding procedures for carrying out and maintaining good behavior.

**e. Occupancy Density**

Based on the measurements of this study shows that the density of occupancy does not meet. There are no adequate occupancy densities. Based on the observations, there are only seven rooms in the Tahfidzul Qur'an Nurul Falah Islamic Boarding School, Poncol, Magetan. Their residents are a combination of first junior high school and third high school with 140 students. In each room with an area of 3x4, there are four rooms containing 25 students. A room measuring 6x4 has two rooms filled with 30 students, while a room with a size of 8x4 has 1 room filled with 35 students.

Occupancy density is the ratio between the floor area of the house and the number of family members in a household. Occupancy density is one of the crucial indicators for the quality of life because it affects the safety and health of housing for house members. Assessment of occupancy density using the provisions of Kepmenkes No. 829 of 1999, the standard of occupancy density that meets health requirements is a room area of 8 m<sup>2</sup> for two persons.

This study is in line with research (Husna et al., 2021) which shows the factors that play a role in the high prevalence of scabies in developing countries related to poverty, one of which is residential density. An environment includes dormitories, groups of school children, family members in densely populated houses, and even between residents in a village. Occupancy density is included in one of the requirements for housing health, where high occupancy density, especially in bedrooms, will facilitate the transmission of scabies disease by direct contact from one person to another. In conditions of residential density that do not meet these requirements, scabies bacteria overgrow in the room because a narrow space supports it, and the occupants are clustered. And make the transmission of scabies easier. The public health center should provide counseling and knowledge about the standard of residential density, which should be at least one person occupying 8 m, to the boarding school administrator. Therefore, the housing thickness is significant, so there is no incidence of scabies disease.

**f. Room condition**

From the results of this study, the condition of the room assessed is a dormitory and a mosque. The first variable, namely the dormitory, shows 80%, which is considered eligible, and the second variable, the mosque, also offers 80%, which is regarded as suitable. However, in the components assessed from each variable, there are still components that do not have a maximum score, such as in the dormitory where the occupants exceed the capacity or indicate the density of the room occupancy. And the mosque variable is taken, for example, on dirty and smelly prayer tools, and the ablution place shows the floor is still slippery and messy and there is a puddle. Healthy conditions are not only needed for the body, but a dwelling also needs to be healthy. Various requirements are included in the criteria for a healthy house, according to the Ministry of Health, that need to be considered when building a house. A healthy home can also affect the health conditions of its occupants. In addition to being healthy, the house must also include aspects of safety, health, comfort, and convenience for its residents. As stated in the Law of the Republic of Indonesia Number 28 of 2002 concerning Buildings, regarding the benchmark for the reliability of a building. Public places are places that influence environmental health problems. The basis for the implementation of the mosque's environmental sanitation is Kep. Minister of Health 288/Menkes/SK/III/2003 concerning Guidelines for Public Facilities and Buildings Sanitation. Compared with research (Riptifah, 2018) based on the Regulation of the Minister of Health Number 1077 of 2011 concerning Guidelines for Air Sanitation in the Home Room that humidity that is too high or low can cause the growth of microorganisms to thrive.

Several factors can cause lousy humidity, namely poor house construction such as leaky roofs, floors, and walls that are not waterproof and a lack of natural and artificial lighting. The moisture that meets the requirements is 40-60%<sup>11</sup>. Mites can survive 2-3 days at room temperature when the relative humidity is more than 30%; the higher the relative humidity, the higher the survival rate. In Islamic boarding schools is the incidence of scabies, a skin disease mainly affecting students. Cases occur in densely populated areas, and the number of cases is large in boarding schools. Density can be seen from the thickness of the bedroom occupancy, which is a minimum bedroom area of 4 m<sup>2</sup>, and it is not recommended for more than two people in one bedroom, except for children

under the age of 5 years. In efforts to improve the condition of the room in this cottage, the cottage should pay attention to the aspect of the building where the walls look dirty and have streaks, the floor is slippery, and the density of the sleeping rooms inhabited by students so that it shows that the condition of the room is comfortable and healthy.

### **CONCLUSION**

1. The incidence of scabies disease in the male dormitory of the Nurul Falah Islamic Boarding School Poncol shows that 20% of the total students are still affected by scabies disease.
2. Sanitation conditions in the Nurul Falah Islamic Boarding School still do not meet the requirements.
3. Personal hygiene of students at the Nurul Falah Islamic Boarding School shows poor personal hygiene of students.
4. The behavior of students at the Nurul Falah Islamic Boarding School shows terrible behavior from students
5. Occupancy Density at Pondok Pesantren Nurul Falah lives in a room with an area of  $<8\text{m}^2$  for two people.
6. The condition of the room at the Nurul Falah Islamic boarding school shows that it does not meet the requirements of the subjects assessed, including dormitories and mosques.
7. Personal hygiene, student behavior, and residential density affect the incidence of scabies disease at the Nurul Falah Islamic Boarding School, Poncol, Magetan.

### **SUGGESTION**

1. Socializing about clean and healthy living behavior needs to be done to avoid scabies disease.
2. It is necessary to improve sanitation in the Nurul Falah Islamic Boarding School so that sanitation in the cottage shows that it meets the requirements.
3. Bad student personal hygiene needs counseling about clean and healthy living behavior.
4. There needs to be an increase in students' behavior in terms of knowledge, attitudes, and actions at the Nurul Falah Islamic Boarding School.
5. There needs to be an increase in the occupancy density for students at the Nurul Falah Islamic Boarding School, which according to health requirements, is a room area of  $8\text{ m}^2$  for two people.

6. It is necessary to increase the requirements for healthy houses or the sanitation requirements of the Nurul Falah Islamic Boarding School for dormitories and mosques.

7. Every month, it is hoped that there will be counseling for students about personal hygiene, student behavior, and residential density for cottage owners to provide space for students according to health requirements. Other researchers, can conduct research by employing direct interviews without any learning activities at the Islamic boarding school.

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