

**DISINFECTANT MAKING TRAINING FOR MICRO-ENTREPRENEUR
HOUSEWIVES GROUP ASSISTED BY THE BANDA ACEH CITY
COOPERATIVE OFFICE****Sayed Rahmad Aulia^{1*}**¹ Universitas Serambi Mekkah AcehEmail correspondence: sayyedahmataulia@gmail.com**Abstract**

Since the advent of covid-19, hand sanitizers and disinfectants have become essential today. Disinfectants can kill germs or coronaviruses that stick to inanimate objects such as tables, chairs, or other inanimate objects. Therefore, the purpose of community service activities carried out by the service team is to provide an understanding of the importance of maintaining covid 19 transmission and providing skills in making disinfectants using materials commonly used in households, such as floor cleaners, clothes bleach and other antiseptics. The service activity model is empowerment with a method of skill development through training. The results of the activity show that the participants have understood the material that has been provided and the participants have been able to make and practice how to make disinfectants from the ingredients that have been practiced with an understanding level of 76 percent, where participants are expected to be able to apply the material in their daily lives without having to buy it outside, so as to save household expenses. Through questionnaires collected from the training participants, a list of training needs for business development was generated, such as access to cheap raw materials, capital, marketing, and training on how to market online.

Keywords: disinfectant, Covid-19, microenterprises**INTRODUCTION**

Covid-19, which is currently endemic throughout the world, has made people worried, so they have made several efforts to protect themselves, their families and the surrounding environment from being infected. Many efforts have been made by the community to break the chain of spreading the Covid-19 virus, starting from maintaining distance between people (social distancing), maintaining endurance, and maintaining the cleanliness of the house and the surrounding environment such as by disinfecting.

The increasing number of ODP (People Under Surveillance) and PDP (Patients Under Surveillance) in South Sumatra requires appropriate and rapid action to prevent the wider spread of the virus. Such as spraying disinfectants in public places that often have crowds of people such as places of worship and others. But not only in public places, at home it is also necessary to carry out independent disinfectants by the community.

Disinfectants are chemical compounds that can kill viruses by penetrating the walls of the virus and will damage the inside of the virus. Disinfectant solutions can be made from liquids commonly used in households such as bleach solution and floor cleaning solution which are then mixed with water in a certain ratio. In this service, it aims to provide knowledge for the community to be independent by making disinfectants from materials in

the household, so that people do not need to buy expensive disinfectants that are sold outside.

Several considerations in this service chose training in making disinfectants from household materials, including: 1) The importance of maintaining environmental cleanliness by spraying disinfectants so that the chain of virus spread can be reduced. 2) Provide precise and correct information on how to make disinfectants with the right ratio. 3) By making disinfectants from materials in the household, it makes the community more economical because it utilizes materials in the household.

Based on the above background, the benefit of this service activity is to make the community more concerned with the cleanliness of the surrounding environment. With the entire easy disinfectant making, namely from materials available at home, it will encourage the community to be independent to protect the surrounding environment. Then not only that, making disinfectants from materials available at home makes the community more economical by not spending a lot of money to buy packaged disinfectants.

The formulation of the problem in this service is how to encourage the community to live more disciplined by maintaining the cleanliness of the surrounding environment, namely by providing details on how to make disinfectants that practical and more efficient, namely by using household materials starting from bleach solutions and floor cleaning solutions.

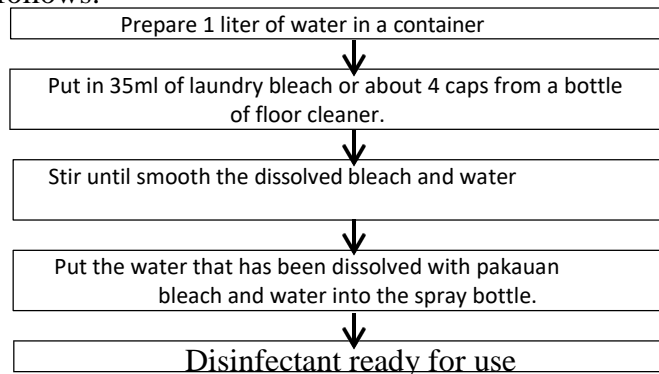
The purpose of this service is to ensure that the community always cares about maintaining environmental cleanliness and becomes more creative by utilizing household materials that function as disinfectant manufacturing materials such as bleach and floor cleaning solutions.

METHODS

The model for implementing community service activities is counseling and practice. The training carried out is how to practice making disinfectants. The practice of making disinfectants is carried out by observing the Covid-19 standard. The training participants followed the training in gradual in order to maintain jaran between training participants. participants were a group of housewives of micro entrepreneurs in Banda Aceh City consisting of 5 micro business groups assisted by the Banda Aceh City Cooperative Office, with each member of each group 5 to 6 people, so that the total training participants were 35 (twenty) people. Participants are required to wash their hands, and wear a handsanitezer, then wear a mask, and faceshiled which has been prepared by the service committee. Phase I participants were 10 people, II participants were 12 people, phase 3 participants were 13 people. In the training activities, the material on the benefits of disinfectants and how to make them was delivered by a service team consisting of 9 (nine people).

Tools and Materials

The tools and materials as well as the flow of the manufacturing process are shown in Figures 1 and 2 as follows:



Tabel 1: How to Make Disinfectants Using Floor Cleaner and Clothes Bleach

Questionnaire Design

Questionnaires as evaluation instruments will be distributed to participants before and after the activity. The questionnaire contains questions related to the following:

1. Business turnover development before Covid-19 and after Covid-19 outbreak
2. Household expenditure to purchase Covid-19 prevention products, such as masks, hand sanitizers, disinfectants and others.
3. Assistance or subsidies received by participants in an effort to minimize the impact of Covid-19 in the community.
4. Identify the needs of participants in order to improve their business, such as capital needs, production tools, and product marketing, as well as what training is needed by participants to increase their income.

The results of this questionnaire will be used as evaluation material and become the basis for planning further service activities so that the training results are effective and efficient.

RESULTS AND DISCUSSION

Implementation Time

Disinfectant production practice training was carried out from October to November 2020 in a group of micro-entrepreneur housewives in Banda Aceh City. This practice is organized by meeting the covid-19 health protocol standards, by maintaining distance between participants, using masks, and implementing it in stages to avoid crowds.

Participant Profile

The group of housewives of micro-enterprises assisted by the Banda Aceh City Cooperative Office consists of 5 groups with a total of 35 (thirty-five) training participants.

The grouping of participants is categorized into gender, namely men and women with the following description of participants:

Table 2: Number of Participants by Gender

No.	Gender	Frequency	Percentage
1	Men	2	5,71
2	Women	33	94,28
Total		35	100

Source: Participant Application Letter, 2020

Based on the number of participants based on gender, 94.28 percent of participants are dominated by women, this is because many micro business entrepreneurs are managed by women. The grouping of participants is categorized into age with a description of the age range presented in Table 2.

Table 3: Number of participants by age

No.	Age	Frequency	Percentage
1	<17	0	0
2	18-25	3	8,57
3	26-35	7	20
4	36-45	12	34,28
5	>45	13	37,14
Total		35	100

Source: Participant Application Letter, 2020.

Based on the number of participants based on age, the largest percentage is in the age range of more than 45 years with a percentage level of 37.14. The age range 36 to 45 with a percentage level of 34.28 percent, the percentage level of the age range 26-35 percent reached 20 percent, 8.57 percent with an age range of 18 to 25 years and 0 percent for ages under 17 years this is because the age range is still in school.

The grouping of participants is categorized into types of businesses with a description of the types of businesses as follows:

Table 4. Number of Participants by Type of Business

No.	Business Type	Frequency	Percentage
1	Food Business	29	82,85
2	Non-Food Business	6	17,14
Total		35	100

Source: Participant Application Letter, 2020.

Participants' Understanding of Training Materials

The grouping of participants is categorized into business types with the following description of business types:

Table 5. Participants' Understanding of Training Materials

No.	Training Materials	Percentage achievement of
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		material comprehension
1	Understanding How to Make Disinfectants	80
2	Understanding of the Materials Used	75
3	Understanding of the tools used	78
4	Understanding the Impact of Covid-19 on Businesses Operated	85
5	Understanding of how to improve business turnover/profit amid pandemic	75

Source: Processed by Researchers, 2020.

Based on the results of the percentage of material understanding achievements carried out by the service team, understanding of how to make disinfectants reached 80 percent, understanding of the materials used was 75 percent, understanding of the tools used was 78 , understanding of the impact of covid-19 on the business being run was 85 and understanding of how to increase business profits amid a pandemic was 75 percent. With the highest percentage level, namely the participant's understanding of the impact of covid-19 on the business turnover that is being run.

Realization of Problem Solving

Corona virus or better known as Covid-19 has emerged since the end of 2019 in China, in early 2020 Covid-19 has spread to various countries including Indonesia, Covid-19 has a huge impact on all sectors, economic, health, social and others. The impact of Covid-19 is felt by micro, small and medium enterprises (MSMEs), ranging from Since the emergence of Covid-19, there have been so many health protocols that must be followed for mutual safety, starting from using masks, washing hands, maintaining distance, and spraying disinfectant liquid to the surface area of inanimate objects, it is all done so as not to be affected by Covid-19. With training of making disinfectants to micro business , they understand how to make disinfectants with tools and materials that can be found in everyday life, it is hoped that in the future they will be able to implement healthy living not only now because of Covid-19 but also in the future.

Activity Evaluation

The group of housewives of micro-entrepreneurs in the city of Banda Aceh was very enthusiastic in understanding the material provided regarding how to make disinfectants. Based on the questionnaires distributed and the results of the responses to the questionnaire contents, most people already know about how to make disinfectants. The average understanding of the material presented was 76 percent.

Table 5. Results of Recapitulation of Questionnaire Answers for Service Activities

No.	Question Item	Code	Assessment	Percentage
1	Understanding About How to Making Disinfectants	Q1	3.9	80

2	Understanding of the Materials Used	Q2	3.6	75
3	Understanding of the tools used	Q3	3.7	78
4	Understanding About Impact Covid-19 Against the Business Being Operated	Q4	3.5	85
5	Understanding of how to increase business turnover / profit amid the pandemic	Q5	3.8	75
Average			3.75	76

Source: Processed by Researchers, 2020.

Based on the recapitulation of the results of the questionnaire given to the participants, the results are that the participants have understood the material provided by the training with an achievement of 76 percent, this means that the participants already understand how to make disinfectants for daily life, as an improvement for the future it is hoped that it can be practiced again to make disinfectants in order to prevent Covid-19 and maintain personal health.

Disinfectant Making Training

The implementation of disinfectant manufacturing training is carried out in stages, namely the first stage and the second stage, this is done to maintain distance between disinfectant manufacturing training participants. first stage was held at 9:00 WIB to 12:00 WIB with 17 participants, the second stage was held at 13:00 WIB to 15:00 WIB with 18 participants.

The submission of directions on how to make disinfectants was delivered by the service team, starting from how to use disinfectants, areas that are allowed and not allowed to use disinfectants, and continued with making disinfectants. Making of disinfectants was practiced by students and continued by the participants who attended, by doing the steps that have been determined in making disinfectants, preparing a container with 1 liter of water then adding floor cleaning liquid / clothes bleach / antiseptic liquid, then stirring until smooth, then inputting the ready liquid into the spray bottle, the anti-septic is ready to use.

The distribution of disinfectants that have been made by the team and participants, it is hoped that in the future participants can apply them to the people around them, and can enforce healthy living.

CONCLUSION

The community service team of the Faculty of Economics, Sriwijaya University, has provided education on how to make disinfectants to avoid Covid-19. The community service activity was carried out on Wednesday, November 18, 2020. The group of micro-entrepreneur housewives in Banda Aceh City, understanding how to make disinfectants has been well understood with a percentage of 76 percent.

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