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The Effects of ECSOTIC Program (Education Information Technology-Based Online System) in Increasing the Knowledge, Attitude, and Practices of Community in Dealing with the COVID-19 Pandemic

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Abstract The Covid-19 pandemic has had an impact on society in the fields of policy, religion, society, culture, economy, technology, and education. This activity aimed to increase the knowledge, attitude, and behavior of the community regarding the COVID-19 pandemic through education information technology-based online system. This study was a quasi-experiment with one group pre-test and post-test design. The activity was carried out for four months on three groups, namely children, adolescents, and adults. The planned program was about the dangers of Covid-19, increasing reading literacy and knowledge through posters, memes, and videos about Covid-19, overcoming and preventing Covid-19, providing entrepreneurial skills during the Covid-19 pandemic. The implementation method followed several steps: identifying potential and analyzing problems in the community, namely by conducting FGDs with related parties, program design, library research to reference material used during service, making program materials, and implementing them online and offline media by visiting the community. The findings showed that there was an increase in the level of community knowledge, attitude, and behavior regarding the COVID-19 pandemics. This study found that the community should be approached in different ways based on their developmental stage relating to their ability to receive information.

1. INTRODUCTION

The coronavirus or severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a virus that attacks the respiratory system or is commonly known as COVID-19. This coronavirus can cause disturbances in the respiratory system, acute pneumonia, or even death. The current COVID-19 outbreak has triggered social stigma and discriminatory behavior against people of certain ethnic backgrounds as well as anyone who is deemed to have had contact with the virus. Due to this pandemic, numerous countries have implemented policies lockdowns. In Indonesia, its government has implemented such a policy, and the most important role in dealing with this outbreak is that of the community itself (Nuryanti, 2020).

The implementation of lockdown and social distancing methods on the one hand can reduce the rate of spread of the virus as experienced by China and South Korea. On the other hand, this policy can also bring consequences that are no less painful. Both methods can hamper the economy in areas where this measure is implemented, especially in Indonesia. Various incidents have shown that the COVID-19 pandemic has spread to the social 'body' of society. It enters, reproduces, and eventually triggers conflicts in society, both horizontally among people and vertically between government and society (Agung, 2020).

The number of Covid-19 patients in East Java Province was in second place with 1114 confirmed positive patients for Covid-19; 177 people had been declared recovered from the Covid-19, and 117 patients

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died in September 2020 (Mukaromah, 2020). The number of Covid-19 incidents in the Lumajang area was 24 people; two Covid-19 patients had been declared recovered, and four patients died in 2020. Lumajang's data for the Jogotrunan area shows that there is only one incidence (one person) of Covid-19.

The increase in the number of COVID-19 sufferers in Lumajang was not accompanied by public compliance with health protocols that must be followed. Jogotrunan Village already had its residents who had been confirmed positive for the Covid-19. The patient and his family underwent independent isolation. The road to the patient's house has been blocked with a red line put by the village authority. The occurrence of the spread of the coronavirus had made all people nervous and did not know what to do in the events like this. Patients and families accept exclusion from the surrounding community. The people of Jogotrunan Village are very diverse; there are health workers (doctors, nurses), lecturers, Islamic religious teachers, but public awareness is still low. There are still many people who did not wear masks, congregated, and did not wash their hands regularly. The results of the assessment in May 2020 were obtained from five residents who were interviewed about COVID-19. Four people said they did not the symptoms of COVID-19 and how it transmits to other people, did not comply with health protocols. Three people did not know that COVID-19 could be dangerous. These findings showed that the community had poor knowledge about the COVID-19 pandemic.

Improving community knowledge and awareness regarding COVID-19 can be done by providing health education for the community. The ECSOTIC program (education information technology-based online system) is a proposed program by this community services team to improve the community's knowledge through technology-based health education. This program reached the community that consisted of three different age groups (children, adolescents, and adults). The problems were identified through focus group discussions at the beginning of the community service. Therefore, this intervention program was deemed appropriate, effective, and based on the community's needs.

Communication among the residents had been made through a social media platform (WhatsApp group), but there had been little or useful information about COVID-19. The community is very obedient to the leadership (head of the village, head of the RW). The community's attitude that is obeying their community leaders is a potential capital to be utilized by the community service team to deliver health information about COVID-19. Each target group was treated with a different approach. The children group

tended to prefer a kind of health education that was accompanied by the play therapy method. The adolescent group was approached by a technology use method, and the adult group preferred to be approached by involving their leadership. The contents of ECSOTIC program were developed based on the community's needs for information relating to COVID-19.

The ECSOTIC program consisted of health education in various topics. The topics were related to health protocols to prevent COVID-19 spreads in the community (hand sanitizing using hand sanitizers, keeping a distance from others for at least 1 meter, and avoiding crowd), information about COVID-19 (definition, causes of COVID-19, symptoms, and COVID-19 treatments), and efforts to remove the stigma attached to COVID-19 patients (Abdillah, 2020). The elderly and people with underlying chronic diseases usually have a poor prognosis whereas cases with relatively mild symptoms often occur in children (Safrizal et al., 2020). By considering this fact, there must be a mutual agreement among the community members not to criticize the patients, but together they should have and be able to achieve a common goal, namely fighting COVID-19 (Nurlita, 2020). Based on the background, this study aimed to improve the knowledge, attitude, and behavior of the community in Jogotrunan Village regarding COVID-19 through **ECSOTIC** program (education **information** technology-based online system).

2. METHOD

This study was a quasi-experiment using the pre-posttest approach. This community service was conducted through four stages and held from August to September 2020. The activities conducted by involving the community target were in the forms of training and counseling with the following steps:

- 1. Preparation stage
- 2. Activity planning stage
- 3. The activity implementation stage
- 4. Evaluation stage

Table 1. Participant characteristics

Participants	n	%
Sex		
Man	9	53
Woman	8	47
Job		
Sub-district government staff	5	29
Sub-district citizens	5	29
Public Health Center staff	3	18
PKK members	2	12
Babinsa*/babinkamtibmas*	2	12

^{*} a village supervisory non-commissioned officer

In the preparation stage, an analysis of the situation and problems of partners was carried out to

^{*} a member of the Indonesian National Police tasked with fostering public security and order

understand what problems were faced by the target community regarding the COVID-19 pandemic. During this stage, these problems were elicited from the community leaders (Table 1) during a focus group discussion. The community leaders that participated in this stage were 17 people who had various occupational backgrounds. The results of the focus group discussion were then mapped according to Leininger's sunrise model (policy, religion, social, culture, economy, technology, and education).

In the planning stage, the focused group discussions were held by the community service team, and the community leaders were invited; together they tried to find solutions to the problems. At this stage, we identified the problems that were faced by the target community and discussed plans to solve these problems (Table 2). At the implementation stage, health education about COVID-19 was provided once in two weeks during the three months. This health education was delivered following the characteristics of the three groups: children group (7-12 years old), adolescent group (13-19 years old), and adult group (>20 years old). The participants were chosen through random sampling. This community service project was conducted from September to November 2020. The health education was provided through varied methods and was delivered via the internet-online (Table 3). The total number of the respondent was 60 participants (20 children, 20 adolescents, and 20 adults). The pre-test was carried out before the health education was provided, and the post-test was carried out one week after the last intervention measure was implemented. In the pre-test and post-test, the participants were asked to fill out questionnaires about COVID-19. Each group also received special educational materials; the children were educated using educational games that involved hot potatoes and a flash player. The adolescents were taught how to create creative content using Photoshop, Corel, and adobe premiere. The adult group was facilitated and encouraged to reactivate their Qur'an recitation and family welfare empowerment program (PKK). They were taught to make products from moringa, which is one of the mainstays of Lumajang people's diet, and it is nutritious as it is high in vitamin D.

The concept of the ECSOTIC Program was that every person entering the village must be presented with information about COVID-19. People from outside could ask information about COVID-19 to any community members, and they would be able to answer the visitors correctly. The village's walls were decorated with educative murals, moringa was planted along the village's roads; in public areas, banners were put up, and handwashing facilities were installed.

3. RESULT AND DISCUSSION

The participants' demographic characteristics can be seen in Table 4. Most of the participants were female (53.3%), and their age mean was 21.78 years old. During the implementation of the community service, approaching the participants was difficult because the team was considered outsiders. After involving the community leaders to approach the target community in Jogotrunan village, it was easy to recruit participants.

The different approaches to providing health education to the three target groups seemed to be effective in improving their willingness to participate. This showed that the choice of methods in delivering intervention programs must consider the developmental stage of target individuals.

Table 5 shows the differences in knowledge, attitudes, and practices of the community in response to COVID-19 before and after the community services program (ECSOTIC) was conducted. Before the ECSOTIC program was delivered, fifteen (25%) respondents stated that they did not know that the main clinical symptoms of COVID-19; others (28.4%) did not know that COVID-19 can be cured; Seventy percent of them believed that persons with COVID-19 cannot spread the virus when no symptom is present; some (36.7%) believed that children and adolescents did not need to obey the health protocols prescribed by the government; some participants (16.7%) did not believe that COVID-19 could be controlled and mitigated; more than half of the participants (58.3%) had recently visited a crowded place, 33.3% of them and did not wear a mask when leaving their homes.

Table 2	Topics and		of footie	~~~	dicarracian
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Group		problems	cause	Solution plan
Adult		Difficulties in selling goods	Limited buyers due to the pandemic	Online selling (social media, website, etc.)
		Disobedience to health protocols	Limited access in health services	Health education
		during the pandemic	Unwillingness to obey health protocols	
		• •	Feeling less comfortable when wearing a mask	
Children Teenager	and	Disobedience to health protocols during the pandemic	Little information	Health education Stylish mask production
rechager		during the pandenne	Lack of awareness	Stylish mask production
			Lack of parents' awareness	
			Lack of knowledge	
		The table of the	- C	TT 14 1 2
		Limited activities	Schooling from home	Health education
			Lack of parents' engagement	

Table 3. C		

Table 3. Community service activities		
	The First Week	
Video	Infographic	Meme
Introduction to COVID-19	Where is covid?	What if covid is big?
Tausyiah text	Animation	Poster
Infectious disease from religion point of	Virus transmission and body responses	Am I positive?
view		•
Booklet	Sound	Tiktok
Covid prevention	Community mutual help	PHBS in Family
Flyer	Can Covid-19 be cured?	Flash animation
Covid examination		Facts and myths about covid
Rapid and swab test		
Poster	Photoshoot	Video
Covid prevention	World innovation	Self-isolation
	to fight Covid-19	
Text content	Slideshow	Quote
Obeying the leader	Government recommendations	Reinforcing mutually
Flow chart	Tausyiah	Poster
The differences among diseases that cause	Fighting during covid	Be always aware
coughs (TB, Bronchitis, covid, ARI, etc.)		
	The Second and Third week: Introduction and Training	
Children group	Quizzes, educational games with Moodle and flash	Covid-19 education topics adjusted to
Teenager group	Zoom: introduction and utilization	online product guidance and
	FGD on the concept of training	trends/issues
	 Look for branding concepts from the youth 	
	perspective	
Adult group	Zoom: introductory and utilization	
	 Reactivation of Qur'an recitation and PKK using 	
	zoom meeting	
	• FGD on training to make cakes made from moringa	
	FGD on the ECSOTIC urban village branding	
	concept	
Second month: application		
Children group	Learning activities with nurses	Covid education topics adjusted to onlin
Teenager group	Create videos, posters, booklets, tiktok, and other	product guidance and trends/issues
	media	
Adult group	Making cake products	
	Moringa planting	
	Creating a Covid-19 park	
Third month: Testing and marketing		-400
Teenager group	Disseminating covid information using videos,	Covid education topics adjusted to onlin
,	posters, booklets, tiktok, and other media	product guidance and trends/issues
Adult group	Online marketing of cake products (packing,	
	promoting, and selling)	
	Moringa planting	

Table 4. Demographic characteristics of participants

Variables	n	%		
Sex				
Male	28	46.7		
Female	32	53.3		
Age (Mean = 21.78)				
7-12	20	33.3		
13-19	20	33.3		
>20	20	33.4		

After the intervention, 100% of respondents stated that they knew the main clinical symptoms of COVID-19. Eighty-five percent of them knew that COVID-19 could be cured. Only some of the participants (8.3%) still believed that persons with COVID-19 cannot spread the virus when no symptom is present; 13.4% of them believed that children and adolescents didn't need to obey the health protocol prescribed by the government. Ninety percent of the participants believed that COVID-19 could finally be controlled. Forty percent of them had visited a crowded place recently, and almost all (91.7%) wore face masks when they left their homes.

Most of the activities of this community service program were carried out in person and through social platforms Instagram and YouTube. Consequently, the implementation time became more flexible, and this was following the health protocol for preventing further transmission of SARS-CoV-2. Figure 1 is a poster showing the prevention of COVID-19, and Figure 2 is a meme about cuting off COVIS-19 transmission. These media were shared via social media WhatsApp and Instagram. The participants were trained and facilitated to create such educational posters, so that they can increase their knowledge about COVID-19, their reading literacy, and their awareness of the disease. Interesting and informative educational media can attract the public to read and increase their understanding of COVID-19. During this community service, the use of social media attracted the children and adolescent groups, who had been using social media and technology every day.

Table 5. The differences in knowledge, attitudes, and practices of the target community in response to COVID-19 before and after the

community services program

Questions	Before			After		
	Yes	No	Do not Know	Yes	No	Do not Know
Knowledge						
The main clinical symptoms of COVID-19 are fever, dry	40	5	15	60 (100%)	0	0
cough, and muscle pain.	(66.7%)	(8.3%)	(25%)			
Currently, there is no effective cure for COVID-19.	32	11	17	51	6	3
	(53.3%)	(18.3%)	(28.4%)	(85%)	(10%)	(5%)
Persons with COVID-19 cannot spread the virus when no	42	4	14	5	55 (91.7%)	0
symptom is present.	(70%)	(6.7%)	(23.3%)	(8.3%)	` /	
The COVID-19 viruses spread via respiratory droplets	43	5	12	57	3	0
1 1 1 1	(71.7%)	(8.3%)	(20%)	(95%)	(5%)	
Children and adolescent are not necessary to obey the health	22	21	17	8	52	0
protocol prescribed by the government	(36.7%)	(35%)	(28.3%)	(13.4%)	(82.6%)	
Attitude:						
I agree that COVID-19 could be controlled finally.	50	4	6	54	0	6
	(83.3%)	(6.7%)	(10%)	(90%)		(10%)
I agree that COVID-19 threatens my surrounding community	32	21	7	49	11	0
	(53.3%)	(35%)	(11.7%)	(81.7%)	(18.3%)	
I agree that obeying health protocol prescribed by the	35	19	6	57	3	0
government can control the COVID-19 pandemic.	(58.3%)	(31.7%)	(10%)	(95%)	(5%)	
Practice:						
I went to a crowded place recently.	35	25	0	24	36	0
	(58.3%)	(41.7%)		(40%)	(60%)	
I wear mask when leaving my house	32	20	8	55	5	0
	(53.3%)	(33.3%)	(13.4%)	(91.7%)	(8.3%)	
I often wash my hand when travelling to other places.	31	23	6	49	11	0
	(51.7%)	(38.3)	(10%)	(81.7%)	(18.3%)	



Figure 1. COVID-19 prevention poster transmission

Figure 3 explains about different types of face masks worn to prevent COVID-19 transmission. Wearing such masks is a critical action to prevent the transmission of COVID-19. Various studies have proven the effectiveness of face masks in preventing respiratory infections; N95 face masks and surgical masks have an effectiveness of above 90%.



Figure 2. Meme about cutting off COVID

To maintain the availability of face masks, the general public is strongly recommended to wear cloth face masks. The recommended type is 3-layer cloth face masks. Wearing 1-layer cloth masks such as scuba and buff are strongly discouraged because they do not have sufficient protection against aerosol particles of SARS-CoV2. The use of face masks by children must be under supervision as various studies have reported there are potential respiratory problems in children when they are wearing face masks for a long period. Face masks can still be worn by children under certain conditions, and it must be ensured that they are under the supervision of a parent or an adult.



Figure 3. Face mask infographic

Figure 4 is a photograph showing the handing over of moringa tree seeds to the target community and their planting. One of the benefits that can be enjoyed from moringa trees is their leaves (Kouevi, 2013). The findings of the research done by Fuglie (2001) showed that moringa leaves contain various beneficial nutrients. The most superior content in these leaves is protein, vitamin A (β -carotene), and high iron, so that they are good for consumption and can meet the human body's nutritional needs, especially among vulnerable groups (Madukwe et al., 2013). In addition, moringa leaves also contain various kinds of amino acids which are rarely found in other vegetables (Kasolo et al.,

2010). Another benefit of moringa leaves is that they can improve the nutritional status of malnourished children. Research conducted by (Srikanth et al., 2014) revealed that moringa leaves can overcome the problem of malnutrition in various countries by adding it to the daily diet of children.



Figure 4. Planting sengon for the community

Figure 5 is a picture of the campaign for preventing the spread of COVID-19 through the distribution of face masks and hand sanitizers accompanied by providing education on how to wear face masks correctly, how to wash hands, and the need for physical distancing. Through this community service program, the target community not only learned how to wear face masks correctly, but they were also encouraged to be disciplined in wearing these masks correctly daily because it is an effective preventive action against COVID-19. Through this activity, the community had become more aware of the importance of protecting themselves from infectious diseases, especially Covid-19. Before this community service program, some participants did not wear a mask because they did not know its importance and the price of face masks was still expensive, and they were difficult to obtain. Therefore, distributing face masks

Tabel 4. Videos and their links used during the community service program

Video Tittle	Link
Short movie with tittle "Apa itu New Normal?"/	Youtube channel "Jogotrunan Ecsotik" at link:
what is new normal?	https://www.youtube.com/watch?v=BJOhv2KD3UQ
Video with tittle "Apa itu Covid-19"? / "what is	Youtube channel "Jogotrunan Ecsotik" at link:
COVID-19"?	https://www.youtube.com/watch?v=P0Z-hjley-o
Video with tittle "Mengaji 1"/"Recite 1"	Youtube channel "Jogotrunan Ecsotik" at link:
	https://www.youtube.com/watch?v=NIPQo_gqueM
Video with tittle "Mengaji 2"/"Recite 2"	Youtube channel "Jogotrunan Ecsotik" at link:
	https://www.youtube.com/watch?v=3avualJ2jFg
Video with tittle "Mengaji 3"/"Recite 3"	Youtube channel "Jogotrunan Ecsotik" at link:
	https://www.youtube.com/watch?v=4xjwvB6rlaE
Video with tittle	Youtube channel "Jogotrunan Ecsotik" at link:
"Covid itu begini lohh"/" Covid is"	https://www.youtube.com/watch?v=RyAURgE0b1c
Tiktok with tittle "10 PHBS Tatanan Rumahm	Youtube channel "Jogotrunan Ecsotik" at link:
Tangga"/"10 Health behavior in family"	https://youtu.be/ygm43 sLf2E

and hand sanitizers to the target community was aimed to benefit them and help them to follow the health protocol during this pandemic.

The dissemination of educational materials was the core activity of this community service project. Participants were asked to read various educational media that had been prepared by the community service team and watch short videos related to what COvid-19 is, how it is transmitted, and how to prevent its transmission. Both in the children and adolescent groups, assistance was also provided for their parents. This was done to educate parents in maintaining and implementing the health protocol for their children, especially during this COVID-19 pandemic.

This study showed that technology-based health education can improve knowledge, promote positive attitudes, and encourage good practices in the target community in responding to COVID-19. A previous study found that digital education is at least as effective as conventional education, and surely it is a good solution for the absence of learning (Brusamento et al., 2019). Online health education in difficult situations such as during the COVID-19 can be a substitute for the traditional health education usually taking place in a classroom. Online health education also has the advantage that the materials can be accessed anytime by the participants.

The work procedures to support the realization of the methods offered to Lumajang Regency encouraged the community and religious leaders to help implement these methods to remove the stigma attached to people suffering from COVID-19. Each village has a small community group such as Karang Taruna (Youth Association), *Remas* (Mosque Youth Association), PKK (Family Welfare Empowerment), and so on. The educational media created by the community service team were distributed through the RW (Community Unit) head and then to smaller groups and the entire village community. As a result, the health worker team, community leaders, religious leaders, and the entire target community were able to work together in fighting the COVID-19 pandemic. The community could also understand the spread and handling of COVID-19, and they could have positive attitudes to avoid stigmatizing those who were infected with SARS-CoV-2. In addition, after receiving the COVID-19 education the target community would be more careful in accessing information so that they could identify false news.

It is hoped that after this community service, the D3 Nursing Study Program of Faculty of Nursing of University of Jember, Lumajang Campus, will be able to provide continuous nursing care in the target village and always make improvements in carrying out activities related to its students' learning process in the assisted village. These activities will always be jointly monitored and evaluated. From these activities, a concept paper containing recommendations will be submitted to policymakers (health service providers), DPRD (a local house of representatives), sub-district heads, the regent, so that a joint commitment can be formed along with its legal supports, supporting policies, funding, other necessary supports.

4. CONCLUSION

Through this community service program, the knowledge and understanding of the community regarding COVID-19 and how to prevent are believed to have increased. Every stage of this community service program could be organized successfully and smoothly thanks to the supports given by various parties.

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