Nutritional Health Education during Pandemic

Novita Dewi¹, Wahyu Dini Metrikayanto², Supriyadi³
¹, ², ³Department of Nursing, Tribhuwana Tunggadewi University Malang, Indonesia

Abstract

Covid-19 has been booming since December 2019, and is a serious concern in the world. The transmission of this virus is very fast, especially in patients who are hospitalized. So that as a precautionary measure of contracting this virus, actions can be taken in the form of enlightenment in terms of cognitive to the community, in this case in the form of Educational Interactive Communication in the form of Health Education. Health education for patients to meet adequate nutritional intake, so that it is hoped that the spread of this virus can be inhibited with high immunity obtained from varied, balanced nutrition, and all aspects of substances that the body needs can be fulfilled. The purpose of this community service is to provide health education to 15 patients. The method provided is in the form of service learning by providing health education to patients by visiting the patient one by one at each patient. The results of this community service were all participants who understand about nutritional intake, types of balanced nutrition, and things that increase immunity in preventing the transmission of covid-19.
INTRODUCTION
COVID-19 infection was detected in the city of Wuhan, China in December, and it was the first time in the world. The virus spread throughout the world, in early January the laboratory results identified the Covid-19 virus sequence (Chan, et al., 2020; Huang et al., 2020), there were seventy thousand deaths and one million Covid-19 sufferers in March (Ayres, 2020), in Indonesia it was detected in early February. Data from the Task Force for the Acceleration of Handling Covid-19 as of June 24, 2020, 47,896 positive confirmed cases, 2,535 deaths, 5.4% case fatality rate, 60.6% male sufferers, and 39.4% female. Based on this data, men are more likely to die from COVID-19. death due to shortness of breath, usually preceded by fever, dry cough (Hui, D, et al, 2020). Prevention continues to be carried out to reduce and overcome the transmission of the disease, one of which is nutrition to increase basic energy when the virus attacks, by overcoming inflammation, relieving pathogens, to increase body immunity, but if malnutrition results in easy infection (Alwarawrah et al., 2018; Zhang & Liu, 2020) leading to death due to complications (Aritonang, 2012) otherwise over nutrition obesity which has the potential for many diseases (Alwarawrah, Kiernan, MacIver, 2018) the disease gets worse (Zhang & Liu, 2020). Adequate nutritional intake is required.

Nutrient intake is the fulfillment of macronutrients and micronutrients. Macronutrients include carbohydrates, proteins and fats, while micronutrients include vitamins and minerals. The nutritional fulfillment of each individual varies depending on several factors; age, development, activity, disease and others. Nutrients can be optimally absorbed in the body, if the amount and variety is right according to the body's needs. WHO has recommended a balanced nutritional menu in the midst of the COVID-19 pandemic, meaning that every food menu must include complete nutrition, both macronutrients and micronutrients. However, to build a strong immune foundation (building block), we must focus on protein intake (UNICEF, 2020) intake of protein and several other nutritional components will be met according to health standards (Dewi et al., 2020), especially supported by the provision of health education.

Health education is to change behavior related to good health. Health Education is a group that has experienced disease treatment and is susceptible to health problems, especially COVID-19. The high number of Covid-19 has the potential to increase infection in patients who are sick, in this case. Based on this phenomenon, it is important for the author to take the title community service of nutrition health education during the Covid-19 pandemic. The aim of community service is to provide health education for nutritional intake during the Covid-19 pandemic to patients.

METHOD
The methods used in this community service are:

a. Visiting patients one only with their implementation by applying strict health protocol
b. Providing media leaflets containing an explanation of nutritional intake
c. Provision of nutrition intake during a pandemic. Health Education was held on November 24, 2020 The parties involved in community service are Lecturers, professional students department of the basic concepts of nursing 2020/2021

RESULTS
Community service was carried out on November 24, 2020. The results obtained in this service were in the form of :

Table 1 Frequency distribution of understanding nutritional intake during a pandemic

| variable | Frequency | Percent |
|----------|-----------|---------|
| Nutritional intake | 15 | 100 |
| Types of food to maintain balanced nutrition during the covid-19 pandemic | 15 | 100 |
| Things that can increase the body's resistance to prevent the transmission of covid-19 | 15 | 100 |
| Total | 15 | 100 |

Source: Primary Data

Table 1 shows that all patients in 100% (15 people) were in the category of receiving nutrition during the pandemic. All 100% of patients (15 people) in the category understand the types of food to maintain balanced nutrition during the covid-19 pandemic. All patients are 100% (15 people) in the category of understanding things that can increase body resistance to prevent the transmission of covid-19 during a pandemic.
1. All health education participants understand about nutritional intake in patients at RSPN Sawahan Malang.

2. All health education participants understand the types of food to maintain balanced nutrition during the covid-19 pandemic.

3. All health education participants understand about things that can increase body resistance to prevent the transmission of covid-19.

**DISCUSSION**

Health education about nutrition during the COVID-19 pandemic for patients and their families has obtained the output of understanding nutrition intake due to the factor of the method of giving health education to patients one by one privately, with coherent explanations, so that patients easily understand nurse explanations, increase respondent knowledge through counseling (Al Hakim et al., 2021; Ardiyani et al., 2021; Besila et al., 2021; Himawan et al., 2021; Nurhana et al., 2021; Sudayasa et al., 2021; Yulianis et al., 2021) directly to the community (Himawan et al., 2021; Lestari & Lita, 2021). Nurses with this method can see the patient's immediate reaction, for example, when explained the patient shows signs of listening well, in the form of nodding his head, body posture that is ready to receive an explanation, even when lying down, as well as the face covered with a mask, strictly applying the health protocol during pandemic (Fitriyani & Yesni, 2021; Himawan et al., 2021; Kaidah et al., 2020; Nurhana et al., 2021; Sudayasa et al., 2021; Supriyadi et al., 2021; Wigati et al., 2021). Their seriousness in listening to the nurse's explanation was finally achieved, even though they were sick, they were still able to concentrate well listening, listening, paying attention, so they understood well the material given about nutritional intake during the pandemic.

Another factor that causes maximum understanding of nutritional intake apart from the private method, is the two-way discussion method, in this way, patients can provide feedback on the explanation given, if they don't understand the nurse gives direct explanations, providing opportunities to ask questions. The discussion will eliminate misinformation, lack of knowledge about the information conveyed can be overcome by providing explanations. The discussion provides an opportunity to express what patients understand about their nutritional intake, so it becomes a valid experience that they are currently facing, even though while in hospital food is provided directly by the hospital, but this explanation becomes important when they go home, it is a chat. planning, supplies them while at home.

Another possibility of success is the effectiveness of the time given, in the form of 30 minutes, a very effective time, not too long, so that maximum concentration, focus, and finally the goal of health education is achieved, namely patient understanding of nutritional intake for clients. Effective time is very helpful for patients in understanding the information provided by health workers. If the time is too long, it will certainly be boring, then the information cannot be fully absorbed by the patient properly.

Another factor is environmental conditions that support health education. Health education carried out on each patient in a closed room, with curtains attached to each patient bed, is the optimal place to provide a good explanation. The closing of the room while the health center resulted in maximum concentration in paying attention to the nurse's voice, even though she was sick. There is no disturbance of concentration, intermeso with truncated information during health education.

The experience factor is very important in health education. Good communication, coherent explanations, interesting delivery, varied intonations, the language used is according to their knowledge as patients and ordinary people so it is easy to absorb the information provided. Misunderstanding of information causes patients to be confused, often asking questions about their illness, treatment, how to treat the disease,
supporting examinations, and prevention of the
disease they are suffering from.

The media used in the form of leaflets are
interesting media, containing information, pictures
of various foods that are easy to understand, various
pictures of nutritional disorders, making it
easier for patients to understand the nurse's
explanation about the nutrition included, examples
of menus included, combined with traditional
information and easy language. understood, has an
advantage in composing information about
nutrition, various types of macro and
micronutrients, how to find out the source of
carbohydrates, fats and proteins, so that the
roasting of these foods can be easily identified by
the patient.

Health education on nutrition during the
COVID-19 pandemic for 15 patients and their
families was carried out. Health education is
carried out by counseling methods to each room
using leaflet media. The implementation of health
education is carried out within 30 minutes, with 15
minutes of exposure to health information about
nutrition during the COVID-19 pandemic and
followed by 15 minutes for discussion.

Health education materials delivered by 2
presenters include:
1. Definition of nutrition
2. Nutritional function
3. Types of food to maintain balanced
   nutrition during the COVID-19 pandemic
4. Things that can increase the body's
   resistance to prevent the transmission of
   COVID 19

Based on the exposure given during health
education and the number of questions given by
the patient and the patient's family, it shows that
the patient and family are quite enthusiastic in
participating in health education activities.
Various questions were given, many were asked
about how nutrition should be consumed during
the COVID-19 pandemic, besides that the patient's
family also asked a lot of questions about how
balanced nutrition should be consumed. Another
question that is often asked by the patient's family
is about how prevention can be done by the family
and patient to avoid COVID-19 disease.

This health education is considered effective
by the service because the many questions given
by patients and their families during the COVID-
19 pandemic can add insight. All questions asked
have been answered and can provide additional
information for patients and their families. Active
participants ask questions as long as they are given
the opportunity to ask questions, they nod their
heads when given an explanation/explanation of
the health education that has been given. The
patient is able to answer the questions that have
been given, although not exactly as described,
then the presenter provides answers that are
complementary to the researcher's questions.

At the end of the session, an evaluation was
carried out in which the presenters asked questions
from the material that had been presented and
discussed. Most of the patient's family can answer
questions simultaneously and in detail. The patient
and family also said that they were happy with the
counseling activities on nutrition during the
pandemic and hoped that the presenters could
provide more information about other materials
about patient nutrition according to their illness at
a later time. Based on the answers given, it shows
that the patient and family can understand what
the speaker has given.

CONCLUSIONS

Conclusions in community service that have
been carried out on patients are obtained. All
participants understand about nutritional intake
during the pandemic. All patients understand the
types of balanced nutritional intake during a
pandemic. All public health education audiences
understand things that can increase immunity in
order to prevent contracting covid-19.

SUGGESTIONS

The next community service uses interactive
media, video shows, demonstrations and
simulations of material selection so that the
information given can be understood even though
the patient is sick.

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