

# Determinant of health protocol

*by* Sofia Rhosma

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**Original Articles**

**Determinant of Health Protocol Implementation Among Elderly with Chronic Disease in  
Jember**

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**Abstract**

**Background :** Elderly is one of the vulnerable groups against COVID 19 infection. The mortality rate from COVID 19 is the highest in the elderly. The chronic disease is worsening the outcome.

**Objective :** This study aimed to find the determinant of the implementation of health protocols among the elderly with chronic disease.

**Methods :** This study was a correlational study conducted with a cross-sectional approach. A total of 437 elderly were selected through consecutive sampling techniques. The respondents were asked to fill the KAP questionnaire through a google form. The data were analyzed using binary logistic regression and multivariate logistic regression techniques using SPSS.

**Result :** The results showed that educational level (p-value 0,088); living arrangement (p-value 0,035); knowledge (p-value 0,026); occupation (p-value 0,042) and the implementation of self-care management (p-value 0,047) were correlated with the implementation of health protocols among the elderly with chronic disease. Knowledge became the main determinant of the health protocol implementation among the elderly with OR 8,456 95%CI (3,495 – 20,455).

**Conclusion :** It can be concluded that the elderly with adequate knowledge has the potential to be 8,4 times more likely to implement the health protocols properly. Health education about the appropriate implementation of health protocol needs to be carried out using a plain language that is easily accepted by the elderly

## INTRODUCTION

Since March 2020, COVID 19 has entered Indonesia and rapidly spread to all edge of the region. The COVID 19 spread not only in Indonesia but almost all over the world. Until July 2021 WHO recorded; 185.319,261 patients with confirmed COVID 19 with the mortality is at 3.954.324 globally. In Southeast Asia WHO recorded 35.090.172 cases of COVID 19 with the number of deaths reaching 439,425. Meanwhile in Indonesia, the total number of positive cases of COVID 19 reached 2,23 million and the mortality rate was 59.534 (Olsen *et al.*, 2021).

The addition of daily cases nationally as of July 3<sup>rd</sup> 2021 reach 25.830 cases; with the recovered patients reaching 11.578 and 539 patients dying today. This number puts Indonesia in fifth place with the highest number of positive COVID 19 cases after Brazil, India, Columbia, and England. Of all provinces in Indonesia, East Java is the highest number of positive cases with 165.013 cases; 5.673 patients treated; 147.245 recovered and 12.095 are dead (Morfi, 2020).

The COVID 19 outbreak has become a global health problem immediately. The COVID 19 virus can attack anyone. Parwanto and Guyansyah (2020) stated that data of positive cases in October 2020 has reached 42 thousand and the elderly become the biggest proportion of impacted group with the percentage of 43%. Komazawa *et al* (2021) stated the case fatality rate in the elderly reached 13,9% which means that the death in elderly due to COVID 19 is enormous.

In 2021, along with the increasing number of variants of COVID 19, daily data reported by the Committee for The Handling of COVID and the National Economic Recovery stated that as of July 3<sup>rd</sup>, 2021 the elderly with confirmed COVID 19 was 11,3% with the percentage of deaths reaching 50%. This shows that the elderly is the vulnerable group during this pandemic situation. Prior study on the clinical profile of elderly patients affected by COVID 19 found that the majority of confirmed elderly were male (66%), had no history of close contact with COVID 19 patients (86%), and had a history of chronic disease such as diabetes mellitus and hypertension (Azwar *et al.*, 2020). Referring to the data in July 2021, data from the Committee for The Handling of COVID and the National Economic Recovery show the highest comorbidities were hypertension at 50.3%, diabetes mellitus at 36,7%, and heart disease at 17,5%.

To date, no medicine has been declared effective. Efforts to suppress the number of daily cases were carried out by the government through the strict health protocol implementation, restriction on mobility, and growing herd immunity through vaccination which is a challenging effort. Economic factor is one of the factors that hinder social restriction in Indonesia. Another important factor is the community's disobedience to the government instruction and the inadequate health literacy of the Indonesians. This is an unfavorable condition for vulnerable groups including the elderly.

The elderly health literacy regarding to COVID 19 is insufficient (Bahtiar *et al.*, 2021). On the other hand, chronic diseases experienced by the elderly require lifestyle changes as one of the disease managements. Motivating themselves to lead a healthy lifestyle is something that cannot be

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said to be easy for the elderly and currently elderly are required to be able to apply health protocols to prevent the transmission of COVID 19. The insufficient elderly health literacy about COVID 19 has been attempted to be overcome through various forms of health education through a poster, social media and counseling by religious leaders. But still many elders do not apply the health protocols. Based on that phenomenon the author is interested in examining the determinants of implementing health protocols in the elderly with chronic disease.

## **METHODS**

### ***Study Design***

This study is a correlational study conducted with the cross-sectional approach.

### ***Settings***

This research was conducted in July 2021 at Jember, East Java Province, Indonesia.

### ***Research Subject***

The population of this study is all elderly in Jember. The sampling technique used is consecutive sampling involves 437 elderly.

### ***Instruments***

The questionnaire is developed from the KAP questionnaire made by Akalu, Ayelign, and Molla (2020) and adapted to the characteristics of the people in East Java. This questionnaire has been tested for validity and reliability. The results of the product-moment correlation test showing an r value of 0,83 while the reliability test with Chronbach's Alpha shows a rvalue of 0,87. It can be concluded that the instrument is valid and reliable.

### ***Data Collection***

The elderly was asked to fill in the questionnaire about the application of health protocols in the pandemic era. The collected data was then analyzed using binary logistic regression and multivariate logistic regression to find the determinant of implementation of health protocols among the elderly with chronic disease.

### ***Data Analysis***

The collected data was then analyzed using binary logistic regression and multivariate logistic regression to find the determinant of implementation of health protocols among the elderly with chronic disease.

## **RESULTS**

The data collected through google form consist of several data, namely general data and special data according to the variables studied. General data of respondents includes respondents' characteristics such as age, gender, educational level, occupation, residence, income, living arrangements, marital status, income, the history of chronic illness, their knowledge about Covid-19

and the chronic disease they suffered, self-care management and the implementation of health protocols. All of these data are presented in table 1.

Table 1. Respondent's Characteristics (July 2021)

| Variable                       | Characteristic           | Frequency | %                 |
|--------------------------------|--------------------------|-----------|-------------------|
| Age                            | 60 – 69 years old        | 260       | 59,5              |
|                                | 70 – 79 years old        | 102       | 23,3              |
|                                | 80 – 89 years old        | 69        | 15,8              |
|                                | 90 – 99 years old        | 6         | 1,4 <sup>16</sup> |
| Sex                            | Male                     | 203       | 46,5              |
|                                | Female                   | 234       | 53,5              |
| Educational status             | Unable to read and write | 69        | 15,8              |
|                                | Elementary               | 214       | 49,0              |
|                                | Middle                   | 89        | 20,4              |
|                                | Higher                   | 65        | 14,9              |
| Occupation                     | Retired                  | 60        | 13,7              |
|                                | Farmer                   | 174       | 39,8              |
|                                | Merchant                 | 89        | 20,4              |
|                                | Housewife                | 114       | 26,1              |
| Marriage                       | Married                  | 282       | 64,5              |
|                                | Death divorce            | 115       | 26,3              |
|                                | Divorced                 | 40        | 9,2               |
| Residence                      | Urban                    | 55        | 12,6              |
|                                | Rural                    | 382       | 87,4              |
| Income                         | Less than needed         | 267       | 61,1              |
|                                | As needed                | 131       | 30,0              |
|                                | More than needed         | 39        | 8,9               |
| Living arrangement             | Spouse                   | 110       | 25,2              |
|                                | Spouse and children      | 172       | 39,4              |
|                                | Children only            | 135       | 30,9              |
|                                | Alone                    | 20        | 4,6               |
| Type of chronic disease        | Hypertension             | 246       | 56,7              |
|                                | Diabetes mellitus        | 83        | 19,0              |
|                                | Coronary heart disease   | 27        | 6,2               |
|                                | Gout                     | 81        | 18,5              |
| Knowledge about the disease    | Adequate                 | 130       | 29,7              |
|                                | Inadequate               | 307       | 70,3              |
| Self-care management           | Implemented              | 24        | 5,5               |
|                                | Not implemented          | 413       | 94,5              |
| Health protocol implementation | Properly                 | 95        | 21,7              |
|                                | Improperly               | 342       | 78,3              |

<sup>20</sup> Table 1 shows that 59,5% of respondents are 60 – 69 years old; 53,5% are women, 49% were graduated from elementary school; 39,8% are working as a farmer; 64,5% are married; 87,4% are living in the rural area; 61,1% are having minimal income; 39,4% are living in an extended family; 56,7% are having hypertension; 70,3% are having inadequate knowledge about the chronic disease; 94,5% re not implementing self-care management to controlling the disease; and 79,3% respondents are implementing health protocol improperly.

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The health protocol is a form of adaptation to new habits that must be implemented by everyone during this pandemic. A new form of habit will not necessarily be applied because of the individual's belief. And so does the elderly. More information about health protocol applied by the elderly with chronic disease is shown in table 2.

Table 2. The Health Protocol Implementation Among Elderly with Chronic Disease

| Health Protocol   | Implementation |             |
|---|----------------|-------------|
|   | Yes            | No          |
| Frequently go outside/traveled for the last 30 days   | 161 (37,3%)    | 271(67,2%)  |
| Participate in social activities that have the potential to cause crowds for the last 30 days | 163 (37,5%)    | 272 (62,5%) |
| Wearing a mask when going outside/travelling for the last 30 days                             | 315 (72,4%)    | 120 (27,6%) |
| Touching the outside part of the mask when removing it for the last 30 days                   | 257 (59,6%)    | 174 (40,4%) |
| Wash and reuse the mask that has been used for the last 30 days                               | 315 (72,4%)    | 120 (27,6%) |
| Wash the hands using soap in a water flow for the last 30 days                                | 348 (79,8%)    | 88 (20,2%)  |
| Frequently touching the eye, nose and lips before washing the hands for the last 30 days      | 268 (61,5%)    | 168 (38,5%) |
| Frequently clean up the surface of the furniture for the last 30 days                         | 328 (75,6%)    | 106 (24,4%) |
| Keep the physical distancing including with the relatives for the last 30 days                | 156 (35,9%)    | 279 (64,1%) |
| Handshaking with others for the last 30 days  | 363 (85,2%)    | 87 (14,8%)  |
| Frequently spend the mealtime with others for the last 30 days                                | 272 (62,4%)    | 164 (37,6%) |

Table 2 shows that from all of the listed activities in the questionnaire about health protocol the respondents obey the direction to stay at home and not come to the crowd. But the data show us that most respondents are not wearing the mask properly and keep the physical distancing including with their relatives.

Accuracy in implementing health protocols is influenced by the understanding of action and belief in the virus existences. Several things related to the accuracy of implementing health protocols for the elderly are shown in table 3 below.

Table 3. Binary Logistic Regression Analysis about Health Protocol Implementation Among Elderly with The Chronic Disease

| Variable                 | Characteristics          | Health Protocol |            | P-value |
|--------------------------|--------------------------|-----------------|------------|---------|
|                          |                          | Proper          | Improperly |         |
| Age                      | 60 – 69 years old        | 95              | 165        | 0,993   |
|                          | 70 – 79 years old        | 0               | 102        |         |
|                          | 80 – 89 years old        | 0               | 69         |         |
|                          | 90 – 99 years old        | 0               | 6          |         |
| Sex                      | Male                     | 95              | 139        | 0,994   |
|                          | Female                   | 0               | 2013       |         |
| Educational status       | Unable to read and write | 16              | 53         | 0,000   |
|                          | Elementary               | 79              | 135        |         |
|                          | Middle                   | 0               | 89         |         |
|                          | Higher                   | 0               | 65         |         |
| Occupation               | Retired                  | 16              | 44         | 0,000   |
|                          | Farmer                   | 79              | 95         |         |
|                          | Merchant                 | 0               | 89         |         |
|                          | Housewife                | 0               | 114        |         |
| Marriage                 | Married                  | 95              | 187        | 0,944   |
|                          | Death divorce            | 0               | 115        |         |
|                          | Divorced                 | 0               | 40         |         |
| Residence                | Urban                    | 0               | 55         | 0,977   |
|                          | Rural                    | 95              | 287        |         |
| Income                   | Less than needed         | 95              | 172        | 0,944   |
|                          | As needed                | 0               | 131        |         |
|                          | More than needed         | 0               | 39         |         |
| Living arrangement       | Spouse                   | 16              | 94         | 0,000   |
|                          | Spouse and children      | 79              | 93         |         |
|                          | Children only            | 0               | 135        |         |
|                          | Alone                    | 0               | 20         |         |
| Type of chronic disease  | Hypertension             | 83              | 163        | 0,084   |
|                          | Diabetes mellitus        | 12              | 71         |         |
|                          | Coronary heart disease   | 0               | 27         |         |
|                          | Gout                     | 0               | 81         |         |
| Knowledge of the disease | Adequate                 | 27              | 103        | 0,000   |
|                          | Inadequate               | 68              | 239        |         |
| Self-care management     | Implemented              | 16              | 8          | 0,000   |
|                          | Not implemented          | 79              | 334        |         |

According to table 3, some independent variables have p-value > 0,025 which are age, sex, marriage, residence, and the type of chronic disease they have. The other independent variables such as educational status, occupation, living arrangement, knowledge, and self-care management have p-value < 0,025 and these variables were analyzed using multiple logistic regression to find the determinant of health protocol implementation. The results are shown in Table 4.

**Table 4. Multiple Logistic Regression** Analysis about Health Protocol Implementation Among Elderly with Chronic Disease

| Variable             | Significant | AOR (95%CI)            |
|----------------------|-------------|------------------------|
| Education            | 0,088       | 2,624 (1,896 – 3,631)  |
| Living arrangement   | 0,035       | 6,068 (3,427 – 10,745) |
| Knowledge            | 0,026       | 8,456 (3,495 - 20,455) |
| Occupation           | 0,042       | 3,258 (2,371 – 4,467)  |
| Self care management | 0,047       | 1, 817 (1,360 – 2,428) |

<sup>18</sup> Based on the data in table 4, we can see that knowledge about the disease and COVID 19 is the determinant of health protocol implementation in the elderly with chronic disease with OR 8,456. It means that elderly with adequate knowledge has the potential to be 8,4 times more likely to implement the health protocols properly.

## DISCUSSION

Statistical analysis using multiple logistic regression show that knowledge about the chronic disease and COVID 19 as a determinant of health protocol implementation in the elderly with chronic disease. The elderly with sufficient knowledge is potential to be 8,4 times more likely to implement the health protocols properly. Knowledge is a determinant of behavior. <sup>24</sup> This result is in line with the study of Akalu, Ayelign, and Molla (2020) which stated that insufficient knowledge will lead to the poor behavior of COVID 19 prevention. Table 1 shows that 70,3% of respondents have insufficient knowledge about chronic disease and also about the correlation between the disease and COVID 19. It is supported by the study conducted by Bahtiar *et al.*, (2021) which stated that the Indonesian elderly are having poor health literacy about COVID 19.

This study found that all of the other determinants of health protocol implementation of elderly with chronic disease are connected. Knowledge is affected mostly by educational status. Most Indonesian elderly are graduated from the elementary educational level or have never attended school. The low educational status will impact on information resistance. This is what happens to the elderly in East Java. The ability to consider limited information paired with a gradual decline in cognitive function is demanding challenge for health workers to make the elderly understand both information regarding the chronic illness they suffered and COVID 19.

The data in table 2 states that the elderly participation in self-care management is poor. Niriayo *et al.*, (2018) state that hypertensive elderly self-care management is strongly influenced by motivation and the health and illness perception. The elderly is considering themselves healthy as long as can carry out the activities and do not need to show the sick role. However, the elderly who <sup>21</sup> are accustomed to self-care management are also adapt to the health protocols implemented for the prevention of COVID 19.



The etiology of COVID 19 is a small and invisible virus. And it causes not all of the elderly to understand the disease. Another factor that influences behavior is culture and norms. The culture of people in Java and Madura believes in plague or they called it “pangebluk” but it is difficult to believe that COVID 19 exists.

Living arrangement and occupation <sup>1</sup> has an impact on the health protocol application by the elderly. Srivastava *et al.*(2021) <sup>12</sup> stated that having family members’ support reduces stress on older adults and increase <sup>13</sup> strength and a positive mental attitude to handle their daily lives. The family plays the role of a social institution for the care of the elderly and it is expected to continue the role of the caregiver as the main source of support security in old age (By, Das and Biswal, 2012). A caregiver family has a big part in providing health information to elderly. The interviews results conducted by the author show that the elderly gain information about COVID 19 from their family member. Respondents know that this disease is an infectious disease with a high mortality rate at this time. On the other hand, respondents are not knowing that the chronic disease they suffered put them at risk of getting infected and having a poor outcome. Respondents understand that they are must perform the health protocols to prevent the transmission. But table 2 shows that the respondents did not implement the health protocol properly. From the health protocol action that has been socialized, the point of wearing and handling a mask, keeping social distance, and avoiding mealtime together has still become a problem. The elderly know that they must wear a mask when leaving the house, but they do not understand how to put in and take off a mask and they do not understand that the masks are not made from cloth that can be washed and reused. Many of them are used to wash the mask that has been used as long as it has not been damaged.

Another concern is about the elderly assumption that the relatives are not people to be suspected of, in another word they don’t need to keep their distance, don’t need to wear masks, and keep shaking hands when visiting or being visited. Since it reflects respect for the relatives. In addition, many elder assume that the mask can be removed when they talking because it makes their voices not heard clearly.

This is certainly a concern for the health workers. The elderly needs to communicate with the people around them. Decreased organ function makes the communication process disrupted. The health protocols that must be applied will further disrupt their communication. More and more elderly violated the health protocol so that they can communicate well. The pandemic condition makes the public health service stop the service for a while to minimize the transmission. The closure of public health services is making an obstacle in promoting the elderly’s health. But it can’t be abandoned. The family becomes the main caregiver for the elderly. The family needs to optimize their roles as the source of health information for the elderly. Health workers need to provide health education that uses plain language that can be understood and accepted easily. Introducing the elderly to technology such as the use of smartphones can also be done so that the elderly can still get connected with others without having to violate health protocols. Families and the elderly have to get used to telemedicine

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since it currently plays an important role in health services, especially in the treatment of non-communicable diseases (Mustaffa <sup>1</sup> *et al.*, 2020)

### Limitation

This study only determinant knowledge of the health protocol implementation among the elderly. Further research is needed to analyse health protocol implementation to chronic disease.

### Conclusion

Knowledge became the main determinant of the health protocol implementation among the elderly with OR 8,456 95% CI (3,495 – 20,455). It can be concluded that the elderly with adequate knowledge has the potential to be 8,4 times more likely to implement the health protocols properly. Health education about the proper implementation of health protocol needs to be performed using plain language that is easily accepted by the elderly.

### AUTHOR CONTRIBUTION

Sofia Rhosma Dewi <sup>1</sup> : Conceptualization, methodology, writing-review and editing, writing-original draft supervision, visualization, project administration, software, validation, formal analysis, investigation, resources, data duration and funding acquisition.

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### CONFLICT OF INTEREST

The authors have consented and no conflicting interests.

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