

SURAT KETERANGAN

Nomor: 2135/UNUSA-LPPM/Adm.I/X/2022

Lembaga Penelitian dan Pengabdian Kepada Masyarakat (LPPM) Universitas Nahdlatul Ulama Surabaya menerangkan telah selesai melakukan pemeriksaan duplikasi dengan membandingkan artikel-artikel lain menggunakan perangkat lunak **Turnitin** pada tanggal 10 Oktober 2022.

Judul : New normal behavior toward the Covid 19 transmission

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No. Pemeriksaan : 2022.10.11.904

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17
by

Submission date: 09-Oct-2022 09:11PM (UTC+0700)

Submission ID: 1920498791

File name: 17.NEW_NORMAL_BEHAVIOR_TOWARD_THE_COVID_19_TRANSMISSION.pdf (280.09K)

Word count: 4174

Character count: 21810



New normal behavior toward the Covid 19 transmission

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ABSTRAK

Latar Belakang: Tingginya tingkat pengetahuan, sikap positif dan perilaku masyarakat dalam memutus mata rantai penularan Covid 19 menjadi landasan untuk menghentikan wabah penyakit Covid 19 di Jawa Timur Indonesia hal tersebut menunjukkan tingginya angka infeksi Middle East Respiratory Syndrome-Coronavirus (MERS-CoV) akibat dari penyakit covid 19 tersebut. Masyarakat masih belum memahami tentang penyakit Covid 19, virus corona, rantai persebaran virus corona, dan pemutusan mata rantai penyebaran dan penularan virus corona.

Tujuan penelitian: penelitian melakukan analisis perubahan perilaku baru terhadap penyebaran covid 19.

Metode penelitian: Kajian analisis dilakukan dengan pendekatan crossectional, pada populasi yang dilakukan secara seleksi acak 250 peserta di tiga lokasi (kota Sidoarjo, Kota Surabaya dan Kota Mojokerto). Pengukuran perubahan perilaku meliputi pengetahuan, sikap dan Tindakan. Pengumpulan data melalui kuesioner yang diedarkan dengan google form lewat group whats-app. Pengolahan data melalui analisis statistic yaitu uji diskriptif dan uji statistic. Uji statistik dilakukan dengan regresi linier.

Hasil penelitian : Berdasarkan hasil ujistatistik regresi liner, hasil penelitian menunjukkan sociodemografi terhadap pengetahuan; usia > 0.01; jenis kelamin. >0.01; pekerjaan, <0.01; Pendidikan <0.01, hal tersebut menunjukkan bahwa usia dan jenis kelamin tidak berhubungan pengetahuan terkait dengan covid 19. Hasil uji statistic sociodemografi dengan sikap menunjukkan; usia > 0.01; jenis kelamin. >0.01; pekerjaan, <0.01; Pendidikan <0.01. Hasil uji statistic ini menunjukkan bahwa sociodemografi usia dan jenis kelamin tidak berhubungan dengan pengetahuan dalam memahami penyebaran penyakit covid 19. Hasil uji statistic sociodemografi dengan tindakan practice: usia > 0.01; jenis kelamin. .0.01; pekerjaan, <0.01; Pendidikan <0.01. Hasil uji statistic ini menunjukkan bahwa sociodemografi usia tidak berhubungan dengan pengetahuan dalam memahami penyebaran dan pemutusan mata rantai covid 19.

Kesimpulan: Studi ini mencerminkan pentingnya pendidikan kesehatan sebagai elemen landasan dalam meningkatkan KAP terhadap infeksi Covid 19 dalam mencegah penyebaran virus dan wabah penyakit.

KATA KUNCI: sikap; covid 19; pengetahuan; wabah; praktik

ABSTRACT

Background: The high level of knowledge, positive attitude and community behavior in breaking the chain of transmission of Covid 19 became the foundation to stop the Covid 19 disease outbreak in East Java, Indonesia, showing the high rate of Middle East Respiratory Syndrome-Coronavirus (MERS-CoV) infection due to the Covid 19 disease. The public still

does not understand about Covid 19 disease, corona virus, corona virus distribution chain, and breaking the chain of spread and transmission of the corona virus.

The purpose of the study: the study conducted an analysis of new behavioral changes to the spread of covid 19.

Research method: The analysis study was conducted with a crosssectional approach, in a population conducted in a random selection of 250 participants in three locations (Sidoarjo city, Surabaya City and Mojokerto City). Measurement of behavior change includes knowledge, attitudes and actions. Data collection through questionnaires distributed with google form through whats-app group. Data processing through statistical analysis is a cryptic test and a statistical test. Statistical tests are conducted with linear regression.

Research results: Based on the results of the liner regression test, the results of the study show sociodemographic to knowledge; age > 0.01; gender. >0.01; employment, <0.01; Education <0.01, it shows that age and gender are not related to knowledge related to covid 19. Sociodemography statistics test results with attitudes show; age > 0.01; gender. >0.01; employment, <0.01; Education <0.01. The results of this statistical test show that sociodeography of age and gender is not related to knowledge in understanding the spread of covid 19 disease. Sociodemography statistical test results with practice actions: age > 0.01; gender. ,0.01; occupation, <0.01; Education <0.01. The results of this statistical test showed that sociodemography age is not connected with knowledge in understanding the spread and disconnection of the covid 19 chain.

Conclusion: This study reflects the importance of health education as a cornerstone element in improving KAP against Covid 19 infection in preventing the spread of viruses and disease outbreaks. in improving KAP against Covid 19 infection in preventing the spread of viruses and disease outbreaks.

KEYWORD : attitude; covid 19; knowledge; outbreak; practice

Article Info :

Article submitted on August 28, 2021

Article revised on November 11, 2021

Article received on December 06, 2021

DOI: [http://dx.doi.org/10.21927/jnki.2021.9\(4\).241-248](http://dx.doi.org/10.21927/jnki.2021.9(4).241-248)

INTRODUCTION

Globalhealth and CNN collected data from 44 countries to see the percentage of corona virus patients and deaths from Covid 19 (1,2,3). The data was taken from the respective state government updates from March 17 to April 8, 2020 (4,5). In a number of countries, more male patients are infected and die from corona, In some countries, more male patients are infected and died of corona. Like in Italy, the ratio of male and female infections 53 to 47 percent (6). While the death rate is 68 compared to 32 percent. In China, there were also more positive cases of corona male patients, which was 51 percent compared to female patients, which was 49

percent (7, 8). The death rate of male patients due to corona virus in China is also higher, 64 percent, compared to 36 percent of female patients. Iran was similar, 57 percent of men and 43 women. While the death rate is 59 percent compared to 41 percent (9, 7). Proportion of men who are more exposed and dead is also reported in Greece, Peru, Ecuador, Japan, Pakistan, the Philippines and Thailand. In Indonesia the number of positive cases of corona every day continues to increase by almost 32.6% (9).

The community weren't understood about Covid 19, the corona virus, the distribution chain of corona virus, the management of the corona virus distribution chain termination (10, 11). The

morbidity and mortality rate in Indonesia was increased every day up to 25-35%, while in East Java the figure has increased to 32.5%. The community panic was increased, however, the community still does not care about the spread of Covid 19 transmission. The research aims to assess and improve knowledge, attitude and practice (KAP) of community toward Covid 19, at East Java Indonesia.

The Indonesian government was trying to break the chain of transmission of Covid 19. but the community was not yet taken on a clean and healthy lifestyle (hand washing with soap or hand sanitizer, using masks, and so on). The percentage of proper hand washing in the community during the Covid-19 pandemic has reached 89%. The percentage of students who apply personal hygiene during the Covid 19 pandemic is 53.41%. Children who have used to wash their hands before eating and have moved are quite a lot. Based on the results of systematic review can be concluded the percentage of Clean and Healthy Living Behavior (PHBS) during the Covid-19 pandemic in the community which is as much as 52% - 77.5%. The percentage of Clean and Healthy Living Behavior (PHBS) during the Covid-19 pandemic in students was 49.2% – 53.1%. Percentage of Clean and Healthy Living Behaviors in children's age is as much as 50% - 86.49% (12).

The general research objective was to Correlation of knowledge, attitudes and actions towards the Covid 19 transmission chain of community at East Java. Research on knowledge, attitudes and practices towards the termination of the chain of the spread of covid 19 is very necessary, because a person will make changes in clean and healthy living behavior if they know the risks received if the clean living behavior is ignored (13).

MATERIALS AND METHODS

This cross-sectional study conducted during the January 10 to March 10, 2020. At East Java

Indonesia. The sample size was calculated as 230 respondents, which was increased to 260 to overcome dropped out or invalid responses. They were selected by a systematic random sampling technique from every third person. Only 250 participants complete the study. The data collection method is closed-ended East Java which designed to collect information about: (A) Karateristik Data, e.g., age, sex, and so on; (B) Knowledge toward Covid 19, e.g., causative agent, mode of transmission and so on; (C) attitude, e.g if he is worried from getting infection, afraid from complications, and so on; (D) Practice regarding infection control as regard washing hands, covering nose and mouth during coughing or sneezing, and so on. To assess measured knowledge, attitude and practice with likert scale (score total knowledge was compared score criteria: agree, disagree, doubtful; score total attitude was compared score criteria: strongly agree, agree, disagree, strongly disagree; and score total practice was compared score criteria: strongly agree, agree, disagree, strongly disagree). Hasil uji validitas dan reliabilitas dari kuesioner menunjukkan bahwa Cronbach's Alpha > 0,70. The result were collected editing, coding, scoring, transferring dan tabulating and statistically analyzed by a personal computer using Statistical Program for Social Science (SPSS) software version 21, for windows XP. Quantitative data were expressed as number and percentage). To assess the differences in frequencies on the dichotomized qualitative variable (scored present or absent), α was used with 0,5% level of significance. Odds ratio using logistic regression analysis described the probability that people who are exposed to a certain factor will have high KAP compared to people who are not exposed to that factor.

RESULT AND DISCUSSION

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Table 1. Sociodemographic characteristics of the participants (N= 250)

| | N | % |
|--|-----|------|
| Age (mean ± SD), years : 40.49 ± 16.97 | | |
| Sex | | |
| Male | 113 | 45,2 |
| Female | 117 | 46,8 |
| Education | | |
| Primary school | 25 | 10 |
| Secondary school | 55 | 22 |
| Upper school | 123 | 49,2 |
| College | 47 | 18,8 |
| Work activity | | |
| Private | 67 | 26,8 |
| Entrepreneur | 79 | 31,6 |
| Professional | 54 | 21,6 |
| PNS/TNI Polri | 50 | 20 |

DISCUSSION

Regarding the knowledge of the participant, it was satisfactory only 39.2%. Logistic regression analysis of the sociodemographic criteria and knowledge score of the participants showed that age and type of job exhibited the most toward their knowledge, where 47.95% in of participants >40 years old showed satisfactory knowledge compared with 52.05% in of participant <40 years old. However, the sex of participant did not significant affect their knowledge; it was almost as it was 42.11% and 57.89% in both (Table 3).

Table 2. Knowledge, attitude and practice (KAP) score of partisipants (N = 250)

| KAP Score | N | % |
|----------------|-----|------|
| Knowledge : | | |
| Satisfactory | 98 | 39,2 |
| Unsatisfactory | 152 | 60,8 |
| Attitude : | | |
| Positive | 114 | 57,6 |
| Negative | 136 | 54,4 |
| Practice | | |
| Good | 87 | 34,8 |
| Poor | 163 | 65,2 |

The attitude of participants, it was positive only 57,02%. Result of the logistic regression analysis of the sociodemographic criteria and attitude score of participant showed the age and sex the most on their attitude, where 57,02 % in of participants >40 years old showed attitude positive. However, the sex of participant did not significant toward their attitude, it was half as it was 47,79 and 53,21 in both (Table 4).

Regarding the practice of the participant, it was good only 34.8%. Logistic regression analysis of the sociodemographic criteria and practice score of participant showed the age more than on their participants, where 71,26 % in of participant >40 years old showed good practice. However, the age of participants did not significant toward the practice, it was more than as it was 71,26% and 28,74 in both (Table 5).

Table 3. Logistic regression analysis between sociodemographic criteria and knowledge score of partisipants

| Sociodemographic criteria | Knowledge | | | | p | Odds ratio | |
|---------------------------|-----------------------|-------|-------------------------|-------|-------|------------|-------------|
| | Satisfactory (N = 98) | | Unsatisfactory (N =152) | | | Value | 99 % CI |
| | N | % | N | % | | | |
| Age | | | | | | | |
| ≥40 years (129) | 47 | 47,95 | 82 | 53,94 | >0.01 | 0.97 | 0.68 - 1.38 |
| <40 years (121) | 51 | 52,05 | 70 | 46,06 | | | |
| Sex | | | | | | | |
| Male (113) | 44 | 54,89 | 69 | 45,39 | >0.01 | 0.68 | 0.57 – 1.42 |
| Female (117) | 34 | 45,11 | 83 | 54,61 | | | |
| Type of job | | | | | | | |
| Occupational (146) | 53 | 54,08 | 93 | 65,18 | <0.01 | 0.73 | 0.43 – 0.78 |
| Professional (104) | 48 | 48,97 | 56 | 34,82 | | | |
| Previous education | | | | | | | |
| High education (80) | 31 | 31,63 | 49 | 32,23 | <0.01 | 0.83 | 0.54 – 0.87 |
| Low education (170) | 69 | 70,40 | 101 | 67,77 | | | |

Table 4 . Logistic regression analysis between sociodemographic criteria and attitude score of partisipants

| Sociodemographic criteria | Attitude | | | | P | Odds rasio | |
|---------------------------|--------------------|-------|-------------------|-------|-------|------------|-------------|
| | Positive (N = 114) | | Negative (N =136) | | | Value | 99 % CI |
| | N | % | N | % | | | |
| Age | | | | | | | |
| ≥40 years (129) | 65 | 57,02 | 64 | 47,06 | >0.01 | 1.43 | 0.95 – 1.42 |
| <40 years (121) | 49 | 42,98 | 72 | 52,94 | | | |
| Sex | | | | | | | |
| Male (113) | 48 | 42,11 | 65 | 47,79 | >0.01 | 1.23 | 0.72 – 1.23 |
| Female (117) | 66 | 57,89 | 71 | 53,21 | | | |
| Type of job | | | | | | | |
| Occupational (146) | 53 | 46,49 | 93 | 68,38 | <0.01 | 0.67 | 0.41 – 0.75 |
| Professional (104) | 61 | 53,51 | 43 | 31,62 | | | |
| Previous education | | | | | | | |
| High education (80) | 37 | 32,45 | 43 | 31,61 | <0.01 | 0.76 | 0.43 – 0.81 |
| Low education (170) | 77 | 67,54 | 93 | 68,38 | | | |

Table 5. Logistic regression analysis between sociodemographic criteria practice score of partisipants

| Sociodemographic criteria | Practice | | | | P | Odds rasio | |
|---------------------------|---------------|-------|---------------|-------|-------|------------|-------------|
| | Good (N = 87) | | Poor (N =163) | | | Value | 99 % CI |
| | N | % | N | % | | | |
| Age | | | | | | | |
| ≥40 years (129) | 62 | 71,26 | 67 | 41,11 | >0.01 | 1.36 | 0.92 – 1.46 |
| <40 years (121) | 25 | 28,74 | 96 | 58,89 | | | |
| Sex | | | | | | | |
| Male (113) | 59 | 67,81 | 54 | 35,13 | <0.01 | 0.45 | 0.34 – 0.67 |
| Female (117) | 28 | 32,19 | 89 | 64,87 | | | |
| Type of job | | | | | | | |
| Occupational (146) | 64 | 73,56 | 82 | 50,31 | <0.01 | 0.43 | 0.38 – 0.65 |
| Professional (104) | 23 | 26,44 | 81 | 49,69 | | | |
| Previous education | | | | | | | |
| High education (80) | 31 | 35,63 | 49 | 30,06 | <0.01 | 0.34 | 0.32 – 0.62 |
| Low education (170) | 56 | 64,36 | 114 | 69,94 | | | |

The delivery of information and educating people needs to consider geographical locations, But the majority of respondents rely on information technology, so everyone easily gets information about the spread of covid 19 through social media (10).

This study addresses a major health problem among East Java Indonesia. The finding of this study was compared with a cross-sectional study conducted on 250 in local community at East Java Indonesia. In this study, the majority of participants were aware of the presence of ongoing cases in East Java Indonesia, which is approximated with a study designed to assess the knowledge about Covid 19, the majority of

participant were aware of an ongoing Covid 19 epidemic at East Java Indonesia and many participant revealed low knowledge regarding the periode of communicability (40.8%), incubation periode (35.8%), and unavailability of vaccine (25,5%). The participants at East Java Indonesia, 30% answered wrong when asked about the availability of the vaccine. Compared with this study, only 37,6 % answered that there was no vaccine. This study showed a higher level of proper hygienic practices among participants. Ninety-four percent of the participants East Java Indonesia reported washing hands regularly, and more than 90% reported using respiratory etiquette measures with significant increase

in hygiene awareness after the international program. Hand hygiene is the main step to reduce the spread of infection due to covid 19. The simplest action is hand washing compliance, lack of compliance will cause health problems around the world as it happens today. Research on the aspects that affect hand hygiene compliance and the best promotional strategies proves a new approach to changing behavior effectively (14).

In a study aimed to examine the KAP toward the use of facemasks among at East Java Indonesia, where facemasks and respirators were considered as an effective approach of preventing respiratory infection, most participants described facemasks/respirators as the only and the best protective method available to protect from transmission Covid 19 (12). In our study regarding to self care and safety measures during pandemic, the majority agreed that wearing a face mask is crucial (34,8%).

Logistic regression analysis identified that age of participants and their educational level were the most predictors of knowledge. A study that targeted the knowledge and attitude of physicians toward influenza found that older and more revealed higher rate of knowledge and awareness, which correlates with this study. In the study gender and age were the two demographic variables significantly associated with the mean score of knowledge and attitude, because gender was the only significant predictor of concern and knowledge (15, 16).

A study of KAP of professional participants regarding Covid 19 showed that 75,3% of professional participants were not sure that the standard surgical mask would protect them, 31,9% did not believe that washing hands with water and soap is protective, and 57,4 % were undecided. These findings showed that there is a significant lack of knowledge among the professional participants even at the level of basic protection and infection control measures (17, 18). To remedy this lack of knowledge,

more education and practical applications are needed (19, 20). These results correlate with this study that there is a gap of knowledge among participants (21, 22). There is opportunity for more education and awareness without causing panic among public (23, 24). Establishing professional and occupational programs among participants is crucial to level up their KAP (20, 25). Periodic educational interventions using locally adjusted methods could contribute to preventing poor practice and lack of knowledge (25, 26). A stepwise approach should be conducted to raise the KAP of participants by implementing well structured interventional programs (27, 28).

CONCLUSION AND RECOMMENDATION

The study reflects the importance of health education as a basic element in improving knowledge of attitudes and actions towards the prevention and breaking of the chain of spread of Covid 19 infectious diseases. It shows a clean and healthy lifestyle in accordance with the Covid 19 protocol. Community concern and willingness are the thoughts of future research

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