Research Phenomenon during the Covid-19 Pandemic: Challenges and Opportunities for Online Media Learning

Harry Satrya Wanto[1], Suharnanik[2], Soepriyono[3]
[1,2,3]Universitas Wijaya Kusuma Surabaya, Indonesia

Abstract

Covid research during a pandemic is research carried out to involve oneself so that research continues to run optimally, even though it is limited by space and social mobility. The learning system has undergone a change where previously using offline or face-to-face then becoming online media. This effort is carried out so that the impact can be suppressed and to break the chain of transmission of the pandemic. This research was carried out using health protocols, the method used was more of a survey nature, monitoring the evaluation of online learning media during the pandemic. By using online media to reach research respondents. This research is sporadic regardless of the area where the respondent is located. This study uses online media, conducts online media learning surveys and optimizes data findings obtained during later research. This study was analyzed based on facts that occurred in several places affected by the pandemic, for example how lecturers and students applied online media as an effort to implement health protocols. The results of this study based on data distributed through the online learning process and reference studies show that media learning can be a challenge and opportunity in terms of changing behavior during online learning, quality of education, learning facilities and online learning methods.

I. Introduction

The COVID-19 pandemic has occurred and has not ended, so that everything is becoming increasingly panicky that all social and economic sectors will be paralyzed. The world has recently been shocked by an infectious disease that can cause death, this new disease is called coronavirus disease 2019 (covid-19) which was discovered in late December 2019 in Wuhan, China. Covid 19 is an infectious disease caused by the severe acute respiratory syndrome coronavirus 2 (SARS CoV-2). This disease can attack the respiratory system, causing mild respiratory problems, lung infections and even death. Symptoms of contracting this virus are fever, cough, sore throat, loss of sense of smell and taste, as well asother symptoms. This virus can be contracted from the splash of saliva thatcausedby coughing, sneezing or it could be when exhaling. Despite all that, various conspiracies related to this pandemic are strong enough material to doubt the truth of this outbreak. Among the conspiracies circulating in cyberspace include fake drugs,accuracyfrom test kits that are only placebos, the assumption that corona is the result of 5G signals, to Bill Gate's conspiracy that deliberately wants to make his Depopulation plan to save the earth from pollution. In order to protect some of the world's people from believing in the existence of conspiracies and to protect the real facts about this pandemic, Facebook protects it by deleting hundreds of

thousands of uploads that are considered untrue news. WHO also gave a very strong threat that this pandemic is a fact that must be faced together by all citizens of the world and many people who are affected by hoax news through online news. Reporting from halodoc.com, to prove that this virus is a fact and not a conspiracy, according to experts at WHO, Corona virus is a large family of viruses that cause flu, to more severe illnesses. For example, Middle East Respiratory Syndrome (MERS-CoV) andSevere Acute Respiratory Syndrome(SARS-CoV).

Flashback, SARS, which emerged in November 2002 in China, spread to several other countries. Starting from Hong Kong, Vietnam, Singapore, Indonesia, Malaysia, England, Italy, Sweden, Switzerland, Russia, to the United States. Until eThe SARS epidemic, which ended in mid-2003, infected 8,098 people in various countries. What about the number of victims? At least 774 people have lost their lives due to this severe respiratory tract infection.

Back to the Covid-19 virus, Indonesia occupies the first position for positive corona cases and has the highest death rate of any Asean countries. While in the world rankings, Indonesia is in position 26 with the world's highest cases occupied by the United States which reached 2,890,3888 cases, 132,101 people died. (Worldmeter data,5th july2020). With the high number of deaths and positive cases in ASEAN, the Indonesian government's policies are taken very seriously, and do not make this outbreak a mere issue or just a conspiracy by the elite.ownerworld capital. Globalization has made all information that occurs in parts of the world easy to know, even though Indonesia has decided that this pandemic outbreak is a fact that must be faced by all Indonesian people. The official statement was made by the government since the case was first discovered on March 2, 2020, when two people were confirmed positive due to infection from Japanese citizens. Thus, the government finally gave the attitude that the Covid-19 virus was an outbreak caused by a virus for which no vaccine has yet been found. Therefore, the community must cultivate a culture of life in a different way from previous behavior to break the chain of transmission of this pandemic by: behaving clean and healthy lives, for example, diligently washing hands,

Based on WHO data, this disease has spread to 216 countries in the world, including Indonesia. The increase in the number of positive patients in Indonesia continues to occur, over time. Based on data on July 1, 2020, there were 1,385 additional cases of positive corona patients, bringing the total to 57,770 people in Indonesia who were affected by the corona virus. Nationally, Yurianto said the average cure rate for Covid-19 patients reached 44 percent. If it is broken down again, there are 13 provinces where the recovery rate is above 70 percent, such as Bangka Belitung, Yogyakarta, and Lampung. The area that still has a low recovery rate is North Maluku. The government spokesman for the handling of Covid-19, Achmad Yurianto, explained that the recovery factor for Covid-19 patients in Indonesia continues to increase. "We are grateful that many have recovered, becausecare better," Yurianto said in a discussion on the BNPB Youtube account, Thursday, July 2, 2020. The issue around COVID-19 is not just a problem related to the disease itself, where the virus as the cause has varied with various variants that are increasingly contagious and cause death to increase sharply. But in terms of inaccurate news that is misleading about Covid-19 in Indonesia. Some of these problems were triggered by false news, information being covered up, methods of delivering information, economic versus health policies, policy inconsistencies, synchronization and coordination between the central and regional governments. If in Indonesia the variety of news is like that, it is different from the international world which is more focused on how to find the right vaccine, global distribution of medical devices, and the political economy consequences of policy choices.

The COVID-19 pandemic is still developing and many media have reported that it will last a long time without any certainty. Although different types of vaccines have been

discovered, the World Health Organization (WHO) has recommended the following vaccines: Pfizer-BioNTech and Oxford-AstraZeneca, Moderna, and Sinopharm. Meanwhile, in Indonesia, the vaccines that have been approved by the regulatory body that grants distribution and use permits include Sinovac, PT Bio Farma, Oxford-AstraZeneca and Sinopharm. Various kinds of experts have provided perspectives, solutions and predictions on how to overcome this disaster, but so far there is no sign of when this disaster will decline and can be controlled. Even with the emergence of various variants of this virus, has added to the endless panic and pessimism that hopes for the passing of the covid19 outbreak. Boredom and resignation tend to be a way out so that they can quickly live side by side with the plague, eventually adapting to strict health procedures. This is done so that life can run normally again and the creation of new ways of life must be raised and explored without waiting for this epidemic to end.

Indonesia has its own characteristics that have different socio-cultural, so it cannot be equated with other countries. RegardinghandlingDuring this pandemic, many countries use the lockdown method such as China, Malaysia, India, Thailand, Singapore, Australia, but Indonesia does not use it. There are many ways that the government and the community have taken to prevent the spread of the virus so that it does not spread further. One way that the Indonesian government has taken is to implement Social Distancing to Large-Scale Social Restrictions (PSBB). The community's space for movement is also limited due to regulations that have been issued by the government. Many public spaces must be restricted or temporarily closed to prevent crowds. Many people end up working from home (work from home). PSBB can be carried out on various scales depending on the number of cases faced by each region, ranging from large scale to PSBB on a small scale or local areas at the village level. All this is done to stop the spread of the Covid-19 disease.

II. Research Methods

This study intends to provide an overview of the current situation The Covid-19 pandemic is still going on. This situation has hampered various socio-economic activities, including learning in schools and lectures. This research was conducted qualitatively and as a reference study in exploring and observing online learning media as challenges and opportunities in the pandemic era. The research locus was conducted at the Wijaya Kusuma University Surabaya. With this condition, lecturers and students are still able to grow their learning activities, then what is the right learning system?doneexperience a decrease in quality when compared to face-to-face learning. By providing this description, of course, the research produced is able to provide an overview of how online media can be used as learning mediais a challenge and an opportunity that must be maximizedn. During the pandemic, process lecturerslearning mehe is online provided with facilities application E-lena. However, lecturers are also given the freedom to choose online media such as assignments via email, chat groupsthe course. In terms of the type and nature of online learning media, of course, it must be tested, evaluated so that it can be seen how effective it is in its activities. This research will certainly provide an assessment of whether the media is more attractive, liked by lecturers and students or vice versa, changes need to be made in the future.

The results of research on research phenomena in the midst of this pandemic are able to become the latest reference in building a new pattern of life in Indonesia optimization of online media learning Wijaya Kusuma University Surabaya. This research is able to answer how effective, desirable and how to optimize the media as a method that is applied during the pandemic.

Figure 1. *Research Focus from Kemenristek Dikti*
Source: (Kemenristek Dikti, 2020)

III. Result and Discussion

3.1. Research in the Midst of a Pandemic

Responding to the COVID-19 pandemic, research activities must be able to adapt well. One of them is by utilizing technology and communication. Problems that occur in society require the participation of researchers in all academic fields. This is actually a challenge for researchers in proving whether their research results are so relevant or not, especially in the midst of this pandemic. Even non-face-to-face research methods are not a constraint although direct interaction is a strength of social humanities research. In order to maintain mutual safety, data collection which was originally carried out through direct interaction and then digital-based is the best alternative during this pandemic.

In quantitative research, technology development can focused on technology innovation of medical devices such as: ventilators, maps geospatial, a health protocol signal reader robot. While in qualitative research, it emphasizes more on contextual issues that are the center of the strategy and there is a hidden agenda brought by researchers. So it prioritizes design study which can be adapted to the social factual conditions to be studied. Although the focus in handling Covid-19 prioritizes technological innovation by forming a research and innovation consortium, in terms of socio-cultural studies, it must also be considered because it is related to handling human behavior as subjects affected by the pandemic.

The COVID-19 coronavirus pandemic has changed the order in all aspects of life such as worship, social interaction, culture, values and economic activities for the entire community. Many activities that were previously done outside the home now have to be done indoors. Not all community activities can be done at home, there are some people who temporarily have to be willing to be unemployed because they cannot work. Daily activities that are mostly done at home do not reduce people's enthusiasm to remain productive. In the midst of uncertainty about the pandemic, life is still going on with new routine adjustments. Online activities are an option to avoid gatherings and crowds in order to minimize the potential for contracting the COVID-19 virus.

Researchers will gain new knowledge about this pandemic, explanations of different conditions will certainly change new ways of doing things takingfield data. The researchers' creativity was tested under these conditions, how to use online media such as email,Whatsapp, Google Form to survey field conditions that do not use physical contact. Using photo documentation media, videos on research participants, on samples from the research population that have been determined so that the data obtained by researchers is

guaranteedaccuracy. The technique of writing themes and topics should also prioritize the conditions of this pandemic, how to solve existing problems as exemplified in Figure 2.

Figure 2. Examples of Applied Research in Covid-19 Conditions
Source: Research Results, 2020

Most agencies or media institutions hold creative writing competitions with the theme of the COVID-19 pandemic as a reflection of the disaster that occurred. The existence of this competition is expected so that the literacy culture is not eroded by the impact of the pandemic. Almost all have the same pattern, including research in the social humanities. There are many new problems in society during the COVID-19 pandemic that can be used as material for research. All phenomena in society can be studied from what was initially considered trivial to now something important.

Research has become part of the Tri Dharma of Higher Education, namely Teaching, Research, and Community Service. Research is broadly divided into two: Basic and Applied Research which is part of the development of science in universities. Research on covid-19 and the impact caused by the existence of covid-19. Whether it's social, economic, health, and educational impacts are activities that should be appreciated, the role of researchers continues to be anticipated with the hope that the research carried out will be able to provide recommendations and contribute to encourage various efforts to find solutions in the community.

The research carried out is not only limited to following trends and there is no significant impact continuation. The main purpose of the agencies holding research competitions is generally to attract the masses to join in the activities they hold. However, research by social humanities researchers has different characteristics from other disciplines.

From the results of the study of several studies of the COVID-19 pandemic, it can be concluded that: research studies must refer to pandemic cases, methodically must use protocol health services that do not cause transmission and spread of covid-19, research methods can use online media, while studies are more focused on technology application and development of science and technology in handling Covid-19.

With all the limitations of space for maintaining strict health procedures, online media learning is a challenge and an opportunity that must be explored and raised. This is a form of real action in the face of a pandemic that will never end. A challenge means a pandemic is not an obstacle to activities, but a challenge that must be sought how to overcome it. Online learning media is both a challenge and an opportunity, although there are many things that this media lacks.

3.2. Online Media Learning

The presence of technology has an impact on all aspects of life including in the aspect of education. The development of learning media is closely related to the development of existing learning media. Learning media means media that act as a means of delivering material in learning. Based on the current conditions, people can easily gain knowledge and insight from the internet. The adoption of technology in education has given rise to learning by optimizing various electronic devices that use the internet network. Especially during a pandemic like this, the use of the internet is not only in the field of education, but other aspects also use internet technology and even the scope of government.

Although it is felt that there are some aspects that are lacking when using online learning, there are many advantages that can offset these shortcomings. Among other things, online learning allows learning in the classroom to be accessed from home and the surrounding environment. Two-way communication in online learning programs between educators and students is getting better because the communication media offered also vary according to needs.

Online learning is a form of modern learning that has been implemented by the government in this emergency period, in the future the implementation of online learning could become an annual government program in addition to accelerating the implementation of 4.0 in the world of education so that learning between students and lecturers can carry out learning interactions with the help of the internet (virtual world). Online learning satisfaction is at the highest level, meaning that students are satisfied with the online learning that has been carried out which has an impact on learning achievement (Basith in Harahap et al, 2021)

Online learning is the use of the internet network in the learning process. It can also be understood as formal education organized by educational institutions but students and educators are separated so that they need a liaison between the two. The opinion of Ghirardini (2011) regarding the online approach can combine various types of online components, including online content, interactive e-lessons, electronic simulations, and job aids. Online content is in the form of non-interactive media such as documents, audio, and PowerPoint. Students who take part in learning through online content are only limited to viewing or watching without being able to take other actions.

Interactive e-lessonis a web consisting of a series of text, graphics, audio, video and interactions in the form of questions and feedback. Meanwhile, the electronic simulation in the form of a web is even more interactive because it is able to simulate like real learning where students can respond dynamically. The last type of online component is jobs aids, namely learning by providing recommendations for several platforms that are able to explain and answer the tasks being done.

Certain online learning will be less meaningful without the synergy of appropriate learning strategies and methods. One application that can integrate online learning is cooperative learning. The main study of cooperative learning is that based on this there needs to be effective learning that can be applied to students to improve their competence. What's more the result of the impact of the Covid-19 pandemic that struck so that learning does not run optimally because they have to stay at home and keep a distance. So online learning by using a cooperative model is one solution to the problem at hand to answer this problem. (Silalahi and Hutahuruk, 2020)

Basically all types of online learning are the same, namely prioritizing interaction and providing information that can later make it easier for students to improve the quality of their learning. In addition, the features presented in online learning media make it easier for each other to realize a real learning model, namely the interaction between educators and students with one another.

Each of the educational institutions usually has online learning facilities in the form of web e-learning. E-learning is a series that is used to deliver learning content, interaction, or guidance. The use of e-learning can shorten learning time and make study costs more economical. At Wijaya Kusuma University Surabaya the use of e-learning had been implemented long before the Covid-19 pandemic. The urgency of the current situation causes the addition of other learning media that are easier and faster to access. Every teacher at Wijaya Kusuma University Surabaya chooses to optimize online learning media according to the advantages or conveniences of each platform. These online media include zoom, google meeting, and several other platforms.

3.3. Discussion of Research Results

In research that focuses on how optimizing online media learning, thenThis data analysis technique uses triangulation techniques. What is meant by data triangulation is data information taken at different times, different places, different people. Triangulation technique is also one of the approaches taken by researchers to explore and perform qualitative data processing techniques. The data that will be taken in the data collection process will be triangulated by the researchers by means, first, the researchers take data at different times.This means that the same or similar data will be more stable if the truth is extracted from several different data sources. Therefore, data triangulation is often referred to as source triangulation. Second, the researcher will compare the information data obtained and then confirmed to repeat the question to the same informant but with different conditions of place, social setting. Third, the researcher will confirm the data obtained by comparing other informants who are different but still use the same questions.

The research carried out during the COVID-19 pandemic was also carried out by utilizing technology, without going directly to the field. In the research process, health protocols must be taken into consideration when choosing a research method, meaning that the right method not only reflects the needs, models and questions to be answered from a study, but also must comply with health protocol standards. This is certainly a challenge for researchers, especially for research in the social sciences. However, with that it will not be a big obstacle for researchers in conducting research in this study researchers are able to take advantage of existing technology by using the internet such as google form, whatsapp, and other social media.

Not only in research in the midst of a pandemic, advances in science and technology this time can also be used in ongoing learning during the COVID-19 pandemic, which clearly cannot be done face-to-face. Online learning is one of the solutions implemented in the education sector, which emphasizes breaking the chain of spreading the Covid-19 virus. One of the uses of internet technology used in the learning process is E-learning. At the University of Wijaya Kusuma Surabaya itself, using E-learning long before the pandemic period existed, but with the difficulty of meeting face-to-face internet features used were added such as the zoom application, google meet and other media.

3.4. Challenges and Opportunities

The challenge of learning online media is currently being tested, because there are many complaints that this media is considered less effective and efficient. The teaching and learning process is not just transferring knowledge to students, but also providing an understanding of how that knowledge is obtained and implemented. Education is a process of shaping the perspective of students so that they are able to live life on the basis of knowledge. Universities as higher education institutions have a big role to play by educating human resources with an established age in mindset and physically and mentally. Education in

higher education is different from the concept of primary and secondary schools which are based on a patented curriculum-based education at all levels. At University, the designation of their students is no longer as students but as students who are considered more capable of choosing, determining the type of education that suits their interests and talents. In tertiary institutions, students are given the choice of majoring in science and what skills to cultivate, learn and practice in the world of work. The following are the challenges and opportunities faced by universities during the online learning process:

a. Behavior during Online Learning

Online learning should use good behavior, with good morals, education can take place to grow the behavior of the nation's successors who are competent even though it is done with online media. The convenience in online media deserves to be superior, especially in avoiding physical contact with other people. The challenges faced in online learning are weak behavioral control of students in the learning process. Some of the behaviors obtained from observations when online learning, students tend to turn off the camera and speakers so that the lecturer is not able to monitor whether the student can listen well or not. Students behave in modest clothes like at home, while if learning is done face-to-face they use neat clothes. Indeed, behavior or morals in cyberspace cannot be a measure of politeness and impoliteness of behavior. The measure of the good and the bad of a behavior has undergone a cultural shift.

In terms of reviewing online learning opportunities, higher education is actually one of the institutions that must think ahead to change the ways and methods of learning so that it has an impact that can build the competence of its students. Opportunities can be done by adding insight into online media centered on shifting established behavioral benchmarks so far. Students should be required to do assignments based on online media. Implement how the theories learned can be adopted with existing software, not a measure of polite and impolite behavior. The benchmark is on responsibility, discipline and the results of tasks that can be completed using creativity. Several complaints were conveyed that the online learning system that was being carried out using various learning models was considered very troublesome. This is a challenge that the quality of our resources is not strong enough with the various tasks that have been delivered by the lecturers. Students are more likely to do their work without any intervention from their parents, in contrast to elementary school children who interfere with their work, it is their parents. So that the serious complaint of whether or not the learning assignment is on students who protest a lot is that the students are different from elementary school children who protest a lot are their parents. Nevertheless, good behavior has the potential to build awareness of the importance of online media learning during a pandemic.

b. Education Quality

There are several types of online learning media that can be used, including: a. The first and most widely used online learning media is whatsapp group. b. The next online learning media comes from google, namely google suite for education. c. The next Online Learning Media is Ruangguru. d. Online Learning Media that can be used as the next choice is Zenius. e. Online Learning Media which is also often used is Zoom. Of course, the challenge is how universities are able to maintain and improve the quality of education. Of course, online media is very different from face-to-face media or what is called offline, everything will change. This quality should be observed as a standard that must be considered by higher education institutions.

The challenge in maintaining the quality of learning with online media is the mastery of online media skills that must be met so that the learning process can run well. This change is a challenge that must be followed, because otherwise the sustainability of the profession as an educator will decline. Lecturers teach in class by teaching in online media is different. Situations and conditions that must be adapted as a form of new skills. Emotionally when dealing with students in classes with different online media, it can be easier to control and even difficult to control. Because there is no space limit, the lecturer is teaching at home which is not conducive or in an outside place where the signal is sometimes problematic. Of course, this is a challenge in itself.

Meanwhile, the opportunities that can be utilized by online media learning in terms of improving the quality of education are that this media will make the reach of education wider. Online media learning will provide opportunities for educational models that can be sold online. In terms of capacity, lecturers can do this regardless of the binding curriculum of the university and tend to be more flexible. Lecturers can create their own channel or official channel that teaches their knowledge regardless of the college curriculum. Other educational opportunities encourage a more independent and wider-reaching profession based on its expertise.

The government has compiled a new curriculum in dealing with this pandemic period, a learning policy using online media that does not have to go through face-to-face but has the same weight as the quality of face-to-face education. Policy-making which certainly brings a new face to Indonesian education, of course, there are still many obstacles because not all universities have students who are easy to access the internet.

c. Learning Facilities

The results of this survey research assume that education requires competitive learning. Therefore, the challenge that must be given attention is related to learning facilities. A lecturer must be able to carry out tasks with predetermined measurement standards even though a pandemic is happening. In order for lecturers to be able to work well in serving their students, all facilities and infrastructure must be facilitated. If the lecturers are provided with sufficient facilities then the resilience in online learning. learning can be done well too. The responsibility of lecturers in developing the abilities of their students can be carried out in tandem with the increasing abilities of their students. Lecturers should partner with their students in carrying out their duties related to the quality of the academic field.

d. Learning Method

In technology learning methods can help in terms of for example distance interviews, panel discussions or Focus group discussions (FGD) using telephone, zoom and video calls can also be done by sports scientists. Meanwhile, in conducting analysis using bibliometric techniques based on the bibliometric analysis protocol from Eck and Waltman (2017) which consists of: a) determining search keywords; b) obtaining initial search results; c) improve search results; d) collect initial data; and e) analyzing data. The challenge that must be faced in online learning is that lecturers must write scientific articles with various standards while research is constrained by the covid19 pandemic. Learning methods have changed so that research methods should also be the same. The online method is an alternative solution that must be studied and used in order to be skilled. Research using the literature review method should be able to be done because it is not done in the field. With this method, various guides, infographics, socialization and education designs based on empirical studies can be carried out by lecturers and students. If before the pandemic routine research was carried out in the field by meeting directly with the community and the object of research. So during this pandemic, research routines can change but with different techniques.

Opportunities in online learning methods can develop bibliometric techniques to be used in representing quantitative data results so that the output can be in the form of journal articles, books, or other types of research output. By using the application, research studies can use a literature search engine such as Google Scholar, CrossRef or others. Then for the analysis stage, literature mapping can be carried out using the application as well. With the help of the application, the urgency of the study of some of the literature can be clustered and then the location of the urgency is determined so that it can be discussed first. This Covid19 has made several activities that were previously carried out differently in technique and method, if they are considered as obstacles and problems then we cannot survive.

IV. Conclusion

During this pandemic period, all countries are in a pandemic condition and they are required to work together in all fields, not least in the research process that conducts research directly into the observation field. It is not an obstacle in finding a research fact, by using existing science and technology developments, observations can still be done by being able to comply with health protocols. Not only in the research process in the field of learning, during the Covid-19 pandemic, there was also a significant disruption by not being allowed to do face-to-face learning. With the difficulties experienced by everyone, learning in this pandemic period greatly utilizes technology and developments in science and technology, with various platforms such as zoom meetings, google meetings and learning tools such ase-learning.This is done so that even though they are in the most difficult times, they do not stop the learning program. The results of this study based on data distributed through the online learning process and reference studies show that media learning can be a challenge and opportunity in terms of changing behavior during online learning, quality of education, learning facilities and online learning methods. The weakness of this research is that it has a narrow area coverage and a wide variety of cultures, so if there are other researchers who can fill the gaps in this research, the results will be better.

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