

*Analysis of the Effectiveness of Online Learning during the Covid 19 Pandemic*Septian Kurnia Sari <sup>a,1,\*</sup>, Efi Tri Astuti <sup>b,2</sup><sup>a</sup> Institut Studi Islam Muhammadiyah Pacitan, Baleharjo, Pacitan, Indonesia<sup>b</sup> Institut Studi Islam Muhammadiyah Pacitan, Baleharjo, Pacitan, Indonesia<sup>1</sup> septiankurniasari18@gmail.com \*; <sup>2</sup> efitriastuti@gmail.com

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## ABSTRACT (10PT)

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The COVID-19 pandemic has affected every line of life, without exception education. The research aims to analyze the effectiveness of online learning during the Covid 19 pandemic. This method used a literature study namely national scientific journal as research sources. The results showed that an analysis of 15 national scientific articles obtained from 2020-2022 using the keyword the impact of the Covid 19 virus outbreaks on the effectiveness of learning, showed that online-based distance learning was considered ineffective. There are several reasons behind these problems including: geographical conditions as well as demographics of educators and students, economic conditions, mastery of technology, academic stress, and less than optimal in delivering material and supervising students. To overcome this problem, the researcher provides suggestions that include: cooperation between related parties such as the government to evenly distribute subsidies in the form of quotas to educators and students, procurement of internet networks, improving the quality of educators, Provision of facilities and infrastructure, media and learning tools, and the commitment of parents to support their children while studying.

This is an open access article under the [CC-BY-SA](#) license.**INTRODUCTION**

The outbreak of Coronavirus Disease 2019 or Covid 19 has hit since December 2019. This outbreak is a type of infectious disease caused by SARS-COV-2 which was first discovered in Wuhan, China. Mild symptoms experienced by sufferers are usually high fever, nausea, and also a dry cough. Covid 19 has a very fast transmission rate throughout the world including Indonesia (Kesehatan, 2020). As a response to the risk of transmission of the Covid 19 outbreaks, the government has anticipated the implementation of Work From Home working and studying from home which are considered to have good flexibility (Fitria, 2020). Learning from home is implemented by the education unit through a distance learning system for students as well as students. Learning activities are a process to change the behavior and character of students as a result of experiments and not from the growth process so with the aim of achieving prosperity and happiness in life (Sakti & Sulung, 2020). In order to achieve that goal, the distance learning scenario must be adjusted to the factors that affect learning such as: environmental factors, learning facilities and infrastructure as well as learning methods and strategies (Sakti & Sulung, 2020). How to realize these factors so that participants can continue to learn, one of which is by providing online learning or online learning resource facilities (Riyana C, 2020).

There has been a significant transformation of learning activities as a result of the Covid 19 virus outbreaks. This transformation will certainly greatly affect the achievement, motivation and mental health of students (Wenjun et al., 2020). Levels of depression and anxiety due to the tasks given at the time learning activities cannot be resolved to contain their emotions. Appropriate action must be taken immediately to overcome mental problems in students so that they will get a proper education.

Accompanied by technology that is growing rapidly, educational institutions including educational units can take advantage of it by developing its information services to be more sophisticated and relevant. The government, through the Ministry of Education and Culture, Research and Technology, launched a new policy in the form of stopping face-to-face learning activities and replacing them with online distance learning in all educational units from elementary, middle, high school to university levels. Online distance learning activities are considered more effective, allowing interaction between educators and students anytime and anywhere through virtual classes. (Sakti & Sulung, 2020)

However, this online-based distance learning activity cannot be said to be an ideal learning activity. There are many weaknesses that result in not optimal learning. This is because the economic and geographical conditions of each student are different, such as the difficulty of the internet network as well as the high cost of quotas as a result, students will not be able to reach the supervision of their educators because they are only limited to virtual learning activities. Educational institutions must work even harder to overcome these weaknesses, both in terms of quality and readiness of educators, regulations, to expanding access and learning networks so that learning activities can take place optimally. (Arifa, 2020)

Based on this problem, the researcher conducted an analysis by examining several studies on scientific articles to determine the impact of the COVID-19 virus outbreak on learning activities in Indonesia.

## METHOD

This research uses the literature study method, which is based on reviewing the contents of scientific articles, books and reports related to the research topic (Nazir, 1998). The analysis was carried out on 15 National scientific articles obtained online via the internet from 2020-2022 with the keywords "The impact of Covid 19 on learning, then used to create the effectiveness of bold learning in Indonesia during the Covid 19 pandemic". Literature review refers to several scientific articles which are then reviewed to consider the relevance of the references obtained by making a literature map.

## FINDINGS

Table 1. Results of Analysis of National Scientific Articles for 2020-2022

Journal Name	Research Section			
	Article Title	Research Purposes	Research Methods	Research Result
Edukatif : Jurnal Ilmu Pendidikan (Pendy et al., 2022)	Analisis Keefektifan Pembelajaran Online di Masa Pandemi Covid-19 pada Mahasiswa Pendidikan Matematika	To obtain an explanation regarding the effectiveness of online learning activities given to mathematics education students during the COVID-19 outbreak	Qualitative exploratory through inductive approach	29.8% of students stated that e-learning activities were effective 34% of students do not contribute to e-learning
Jurnal Basicedu (Siagian, 2021)	Analisis Profesionalisme Guru dalam Pelaksanaan Pembelajaran Daring di Masa Pandemi Covid-19	To examine the professionalism of teachers when teaching their students during the COVID- 19 outbreaks	Qualitative descriptive	Teachers are considered to be professional in carrying out learning activities, the evidence is that there are several innovations such as packaging of learning media and evaluation tools that are adapted to online conditions.

Journal Name	Research Section			
	Article Title	Research Purposes	Research Methods	Research Result
				However, when compared to online learning, offline learning is better than online
IRJE: Jurnal Ilmu Pendidikan (M. S. A. Dewi & Sudewiputri, 2022)	Efektivitas Pembelajaran Daring Masa Pandemi Covid-19 Pada Guru Sd Kelas V Kecamatan Negara Tahun Ajaran 2021-2022	To inform the effectiveness of online KBM as well as the supporting and inhibiting factors for teachers when conducting KBM during the covid 19 outbreak.	Descriptive qualitative	The KBM conducted by the teacher is considered less effective because the teacher is limited in delivering material and the lack of availability of media in online learning
Edukatif: Jurnal Ilmu Pendidikan (Nisa et al., 2022)	Pengaruh Minat Belajar Peserta Didik terhadap Pembelajaran Daring Mata Pelajaran Bahasa Indonesia di Masa Pandemi Covid 19	To describe the level of interest and student learning outcomes to well as their influence on Indonesian language lessons during the implementation of online KBM	Descriptive qualitative	Interest and student learning outcomes are categorized as moderate.
Bunnayya: Jurnal Pendidikan Anak (Choirunnisa et al., n.d.)	Problematika Orang Tua dalam Membimbing Anak Belajar di Rumah pada Masa Pandemi Covid 19	To describe the problems of parents when guiding their children to carry out online learning	Qualitative with interview technique	Parents find it difficult to manage time and their children's addiction to online games.
Jurnal Pendidikan Ilmu Pengetahuan Sosial (JPIPS)(S. N. Dewi, 2020)	Dampak Covid 19 Terhadap Pembelajaran Daring di Perguruan Tinggi	To examine the impacts and obstacles that arise during online learning activities due to the COVID-19 pandemic	Qualitative exploration	For students, it is constrained by facilities and infrastructure as well as an unstable network besides the high internet quota so that it has an impact on the weakness of understanding the material presented by the lecturer. For lecturers, it has an impact on the decline in the quality of learning due to constraints on students
Research and Development Journal Of Education (Abidin et al., 2020)	Efektivitas Pembelajaran Jarak Jauh Pada Masa Pandemi Covid 19	To identify the effectiveness of the PJJ process during the covid 19 pandemic for students of Al-Qashwa Middle School and High School Poltangan Pejaten Timur	Descriptive qualitative	PJJ is considered quite effective although there are still some weaknesses and obstacles from the implementation process
ALVEOLI: Jurnal Pendidikan Biologi (Ula et al., 2021)	Pengaruh Penggunaan Teknologi di Masa Pandemi Covid 19 Terhadap Hasil Pembelajaran Pada Mata Pelajaran Biologi di MAN 2 Jember	To find out the effect of using technology on Biology learning during the COVID-19 pandemic	Descriptive using a survey approach	64.8% of students consider online biology learning ineffective 68.4% of students do not agree with the implementation of online biology learning activities
Journal of Education, Psychology and Counseling (Purwanto et al., 2020)	Studi Eksploratif Dampak Pandemi Covid 19 Terhadap Proses Pembelajaran Online di Sekolah Dasar	To identify problems related to online learning at home due to the COVID-19 outbreak	Qualitative exploration	Lack of social communication, lack of mastery of technology, burdened parents, and expensive quota fees are obstacles that occur when learning online
Jurnal Obsesi: Jurnal Pendidikan	Persepsi Guru Dampak Pandemi Covid 19 terhadap Pelaksanaan	To analyze the teacher's views on the challenges of online learning during the COVID-19 pandemic	Qualitative	The challenges experienced by teachers include: inadequate facilities and infrastructure, limited signal

Journal Name	Research Section			
	Article Title	Research Purposes	Research Methods	Research Result
Anak Usia Dini (Amalina, 2021)	Pembelajaran Daring di PAUD			and internet quota, material delivery that is not optimal because it is only limited to visualization, students receive less supervision from the teacher.
Edukatif: Jurnal Ilmu Pendidikan (Baety & Munandar, 2021)	Analisis Efektifitas Pembelajaran Daring Dalam Menghadapi Wabah Pandemi Covid 19	To analyze the effectiveness of online learning activities and the factors that influence it.	Qualitative descriptive with data collection techniques using a questionnaire	63% of students as research respondents consider online learning to be ineffective. This ineffectiveness is influenced by several factors such as social, health, economic and personality
Jurnal Psikologi (Andiarna & Kusumawati, 2020)	Pengaruh Pembelajaran Daring Terhadap Stres Akademik Mahasiswa Selama Pandemi Covid 19	To identify the level of student stress due to covid 19	Analytical observations using a cross-sectional approach	Learning activities by nature have a tendency to cause academic stress in students. Some improvements are needed regarding facilities and infrastructure as well as the skills of lecturers to overcome this
Kreano: Jurnal Matematika Kreatif-Inovatif (Kusumaningrum & Wijayanto, 2020)	Apakah Pembelajaran Matematika Secara Daring Efektif? (Studi Kasus Pada Pembelajaran Selama Masa Pandemi covid 19)	To find out the effectiveness of online mathematics lectures according to student perceptions	By conducting tests and questionnaires	Online mathematics lectures are considered not smooth due to an inadequate internet network.
Cetta: Jurnal Pendidikan (Damayanti, 2021)	Efektivitas Pembelajaran Bahasa Indonesia dengan Google Classroom Terhadap Minat Baca Saat Pandemi Covid 19	To find out the effectiveness of learning Indonesian by using google classroom and its effect on reading interest in SD N 4 Dauharu students	Literature	Google classroom can be used as a medium for teachers to deliver online learning. Even so, learning Indonesian is still more effective if it is delivered face-to-face. Because it contributes more to students' reading enthusiasm
SNTIKI: Seminar Nasional Teknologi Informasi, Komunikasi dan Industri (Gustantia Annisa et al., 2020)	Hubungan Sistem Pembelajaran Daring dengan Kesehatan Mental Mahasiswa di Era Covid 19 Menggunakan <i>Chi-Square Test</i> dan <i>Dependency Degree</i>	To analyze the relationship between online learning and mental health, students during the covid 19 outbreak	Chi-square test and dependency degree	21.875% the effect of the effectiveness of the online learning system on the mental health of students. 18.75% influence of technology ability on mental health. 12.15% of students have symptoms of partial post-traumatic stress disorder. 84.75% of students have symptoms of moderate post-traumatic stress disorder. 3.1% of students diagnosed post-traumatic stress disorder

## DISCUSSION

Effectiveness of learning is learning that meets one of the quality standards of education that can be measured through the achievement of goals or can be called accuracy in managing the situation (Rohmawati, 2015). Learning is said to be effective if in the process of implementation it provides opportunities to be independent by self-study or provide flexibility to participants. Students to carry

out activities related to learning. The main requirements for learning are said to be effective if they meet (At-Tabanny, 2017) :

1. Learners have a long learning time during KBM,
2. Students are aware to do the task,
3. Learning materials that are adapted to students' abilities or have an orientation on learning success.

While the effectiveness of the learning program can be assessed through the suitability of the program with the characteristics of the effectiveness of the program which include (Firdaus, 2016):

1. The achievement of the stated instructional goals
2. Learners feel attractive learning
3. Facilities and infrastructure are available to support the learning process

Based on an analysis of 15 national scientific articles obtained from 2020-2022 using the keyword the impact of the Covid 19 virus outbreaks on the effectiveness of learning, it can be described that the problems caused by Covid 19 in Indonesia have a great influence on learning activities.

Almost all analyzes state that online-based distance learning is considered ineffective. This is because it does not meet the main requirements for learning to be said to be effective and also the characteristics of the effectiveness of the learning program. There are several reasons behind the ineffectiveness of learning to include:

1. The geographical conditions as well as the demographics of each educator and student, both students and students are different. For those who live in urban areas, it is easy to use internet signal access. Meanwhile, those in remote rural areas find it difficult to find an internet signal.
2. Economic conditions of students who are not sufficient to buy expensive internet quota.
3. Students and educators have shortcomings in terms of mastering technology and social communication
4. In the implementation of virtual or online learning, students are less active and contribute in learning. Because in virtual learning, educators are subjects who deliver material, while students are objects who receive material and carry out orders from their educators through certain assignments. This causes students to be less active and contribute in learning and only consider learning as a boring activity. This is certainly different if students carry out face-to-face learning activities to class. They will be more interactive because there will be interactions with their friends and educators.
5. Educators have tried to innovate learning, but the limitations of infrastructure, media, and learning tools remain an obstacle in the implementation of online learning. Facilities in the form of infrastructure, media and learning tools such as cellphones, computers, and laptops are needed to make it easier for educators to provide learning to students.
6. Educators are less optimal in delivering material and supervising their students because learning is only limited to visualization. This visualization learning is considered only effective on theoretical subjects, while for practical Meta lessons it is less effective in implementing it. Because practicum subjects require teaching aids and facilities as well as accuracy in their implementation. So that if it is only done through virtual students, it will be difficult.
7. Parents find it difficult and burdened in managing time to accompany their children to study so that children will look for other diversions, one of which is online games which lead to addiction in children.
8. Students have a tendency to experience academic stress due to the excessive workload they receive. So that it will affect the mental health of students and can cause partial post-

traumatic stress disorder. Apart from students, educators and parents also feel this psychological pressure.

To overcome the problems that have occurred, the researcher provides suggestions regarding actions so that learning can take place effectively which includes:

1. Cooperation between related parties such as the government is needed to evenly distribute subsidies in the form of quotas to educators and students in need.
2. Procurement of internet network in places where the network is inadequate
3. The need to improve the quality of educators through training programs related to Science and Technology
4. Provision of facilities and infrastructure, media and learning tools by schools to support the learning process
5. Parents or guardians of students must be willing to have a commitment to assist their children when carrying out learning. Parents have an obligation to help teachers to supervise the tasks that their children do.

Although in its existence the online-based distance learning system is still considered ineffective, this learning system inevitably remains an option. Therefore, a thorough evaluation is needed by stakeholders, which include educators, schools, school committees, parents or guardians of students, the community, and also relevant agencies to anticipate declines and declines in education.

### CONCLUSION

The COVID-19 outbreak has had a tremendous impact on the world of education. As a response to the risk of transmission of the Covid 19 outbreaks, the government has anticipated the implementation of Work From Home, working and studying from home, which are considered to have good flexibility. Learning from home activities are implemented by educational units through an online-based distance learning system for students as well as students. Based on an analysis of 15 national scientific articles obtained from 2020-2022 using the keyword the impact of the Covid 19 virus outbreaks on learning, it shows that online-based distance learning has many underlying weaknesses so that this method is considered less effective for use in the learning process

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