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Analysis The Student Perception of Application Clinical Skills Online Learning in The Pandemic Time Covid-19

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Abstract

Background: Government policies that apply social distancing, work from home, and learn from home to prevent the spread of the Covid-19 corona virus have an impact on learning methods. Clinical learning methods in pre-pandemic health education are carried out in campus laboratories and direct clinical services to patients. Thus, in this condition, the provision cannot be implemented.

Purpose: For this reason, it is necessary to modify the learning method from offline to online to meet the continuity of the student learning process.

Methods: In the first stage, the clinical skills online learning method using online videos is supported by lecturers' explanations in a 120-minute meeting. In the second stage, students are given the task of making videos of procedural skills that have been taught in 170 minutes, with a video duration of 10-15 minutes. At the next meeting, a review or response is carried out with students on the standard operating procedure and the theory that underlies it. The design in this study is a descriptive analysis with 511 respondents from the medical education study program and the nursing diploma 3 study program at the Faculty of Medicine, Mulawarman University. The research used was 44 items of statement questionnaire that had been tested for validity and reliability, and questionnaire items were sent to respondents via Google Forms.

Results: From the results of this study, there is a significant relationship between the perceptions of students who apply clinical skills online learning seen from the effectiveness of learning in the Covid-19 pandemic era with p -value = 0.000, with a very strong relationship with the Spearman value ρ of 0.791 in a positive direction.

Conclusion: Thus, it can be concluded that the application of online clinical skills learning during the Covid-19 pandemic was effective. As a suggestion, clinical learning methods with various blended learning or hybrid learning methods should be modified.

Keywords: clinical skills online learning; pandemic Covid-19; student perception

Introduction

The complexity of handling this outbreak has made world leaders implement super strict policies to break the chain of the spread of Covid-19. Social distancing is a policy to prevent the spread of Covid-19, because people stay at home as much as possible, stay away from crowds, and do not travel if it is not necessary. Social distancing, which literally means keeping a distance from social life or maintaining physical distance from other people, will slow the spread of the corona virus which is transmitted through droplet contamination or saliva splashes at a distance of 1 or 2 meters. With social distancing, the risk of contracting Covid-19 from other people will decrease (Abel & Mcqueen, 2020).

The Corona virus that continues to spread in Indonesia has made various elements decide to follow government directions by working from home or

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working at home, including the world of education in Banyumas Regency which also implements learning at home. From kindergartens to public and private colleges, all learning activities are conducted from home. This is because social distancing is one of the most appropriate steps to reduce the spread of the virus. Several steps to continue the teaching and learning process are also carried out with an online system. Based on the Circular of the Minister of Education and Culture of the Republic of Indonesia No. 3 of 2020 concerning the Prevention of COVID-19 in the Education Unit, all higher education levels in Indonesia have taken firm steps on the government's appeal to carry out learning activities from home (Darmalaksana, Hambali, Masrur, & Ushuluddin, 2020).

In general, clinical learning methods in health education before the pandemic period were carried out by learning in campus laboratories with live demonstrations by lecturers, accompanied by clinical skill video screening, and students doing these skills to be assessed by lecturers. After students are declared to have passed the clinical skill test, they can carry out clinical practice to handle patients and implement clinical skills competencies to patients directly with the guidance and assessment from the clinical supervisor. Well-developed clinical reasoning skills are central to the process of clinical assessment (Yauri, Nash, & Ramsbotham, 2019).

Higher education institutions make internet-based applications that are familiar with the term e-learning (both in the form of websites and applications). Not only that, it is also necessary to develop an internet-based information system application that is easy to use from day to day in the online guidance process (Andrian & Fauzi, 2020).

E-learning is an electronic system-based learning process. In general, the benefits obtained are increased self-study skills and the ability to display information with technological devices. The implementation of online clinical learning also has drawbacks. One negative side of the online procedural skills learning process system is that not all lecturers and students have the same level of understanding about operating devices and internet network problems (such as the problem of running out of quota) and errors often occur with the internet network in certain areas (Meiza, Hanifah, Natanael, & Nurdin, 2020).

While the negative side of the application of the online procedural skills learning system is that not all students have the same level of understanding. Students who are diligent and quickly understand the information conveyed in the online tutoring process will easily follow the lesson. However, those who are not familiar with this method may find it difficult not only to understand the online-based learning material delivered by the lecturer, but also to adapt to the technology application used in the online guidance process (Tosida et al., 2020).

The learning process of clinical procedures in health education is the most crucial thing and must

receive very important attention and solutions to overcome problems during this pandemic in order to keep it running effectively and sustainably. One way to do this is by continuing to learn clinical procedures online. The online method used is the lecture method and video playback of certain clinical skills, then proceed with giving assignments to students to make videos about the procedural skills that have been taught. At the next meeting, there will be a review or assessment response by the lecturer in accordance with the standard operating procedure assessment and theoretical concepts related to these clinical skills. The application of effective and efficient clinical learning is one way to ensure the quality of the health education management system in general. The key to the success of students whose assessment must be up to 100% lies in learning clinical skills. Based on this background, the researchers wanted to analyze students' perceptions of online learning clinical skills at the Faculty of Medicine, Mulawarman University.

Method

The type of research used is quantitative research with a descriptive analytic approach. The design in this study is cross sectional, where the dependent and independent variable data are obtained in onetime period. The sampling technique used in this study is random sampling (Dharma, 2011). Data analysis uses univariate with the number of respondents and the percentage. Bivariate analysis uses Spearman Rho. Respondents of this study came from 308 medical students and 203 nursing students. Respondents filled out 44 questionnaires via Google form. This research has received approval from the Mulawarman University research ethics committee with Ethics Approval Letter Number: 51/KEPK-FK/XI/2020.

Results

Respondents are students who have experienced this clinical skills online learning method. The univariate variables that will be seen are the online learning method stage 1, stage 2 and the effectiveness of learning stage 1, stage 2 and both stages from the students' point of view.

Based on research data, there were 308 students (60.3%) of the medical education study program, and 39.1% of the nursing diploma 3 study program. This makes it easier to obtain valid data because this learning method has been implemented in the medical education study program since the first semester. Students who filled out the most appropriate questionnaire were students in semester 3 and above, namely 352 people (68.9%), which made the results more valid and effective. This is in accordance with the sample criteria, namely students who have participated in learning methods like this. The results of this study indicate

Table 1. Distribution of Respondent Characteristics Based on the Origin of Study Programs and Semester of FK Unmul Students in 2020 (n=511)

Respondent	Number	%
Study Program		
Nursing Students	203	39.7
Medical Stdents	308	60.3
Semester		
1	159	31.1
3	202	39.5
4	1	2
5	96	18.8
7	49	9.6
9	3	6
11	1	2

Table 2. Research variables on online clinical learning variable Phase 1, stage 2 and both stages and the effectiveness of learning stage 1, stage 2 and both stages during the Covid-19 pandemic in FK Unmul students in 2020 (n = 511)

Respondent	Number	%
Clinical Learning		
Good	262	51.3
Less Good	249	48.7
Effective Learning 1		
Effective	293	57.3
Less Effective	218	42.7
Clinical Learning 2		
Good	312	61.0
Less Good	189	39.0
Effective Learning 2		
Effective	268	52.4
Less Effective	243	47.6
Clinical Learning 1-2		
Good	295	57.7
Less Good	216	42.3
Effective Learning 1-2		
Effective	281	54.9
Less Effective	230	45.1

Table 3. The Relationship between Online Clinical Learning with Stage-1 Learning Effectiveness, the Relationship between Online Clinical Learning with Stage-2 Learning Effectiveness and the Relationship between Online Clinical Learning with Learning Effectiveness in Both Stages in FK UNMUL Students during the Covid-19 Pandemic in 2020 (n = 511)

Variable	P Value	Spearman-Rho	Conclusion
Clinical Learning 1	0.000	0.727	Effective Learning 1
Clinical Learning 2	0.000	0.597	Effective Learning 2
Clinical Learning 1-2	0.000	0.791	Effective Learning 1-2

that stage-1 of online clinical learning provides explanations using videos and explanations from lecturers. A total of 262 students stated that they were good (51.7%), and 293 students stated that they were effective (57, 3%).

The results of this study indicate that the stage-2 of online clinical learning is the task of making video skills according to what has been taught, then the lecturer will respond according to the standard operating procedure and the theoretical concept of these skills, and as many as 312 students stated this learning stage was good (61%), and 268 people (52.4%) stated that they were effective.

The results of this study indicate online clinical learning in stage-1 to 2, which are providing explanations using videos and explanations from lecturers and giving the task of making skill videos according to what has been taught then carrying out response by the lecturer according to the standard operating procedure and theoretical concepts from these skills. There were 295 students who stated that they were good (57.7%), and 281 students who stated that they were effective (54.9%).

Discussion

Research related to the application of learning methods in new clinics was also carried out by Patmawati, Saleh, and Syahrul (2018) regarding the Effectiveness of Clinical Learning Methods on Critical Thinking Ability and Self-Confidence: A Literature Review. Based on the results of literature search, it is known that the learning method can improve the critical thinking skills and self-confidence of nursing students by the use of simulation method, or demonstrating something directly and it is done by watching videos and making videos of clinical procedure skills directly to patients.

Regarding the reflection of clinical skills laboratory learning, Lisiswanti and Saputra (2015) stated that learning clinical skills in the world is advancing rapidly in line with the development of science and education and medical technology. Learning clinical skills includes three competencies, namely the knowledge, skills and attitudes that a doctor must have. Clinical skills practice can be taught with patients and / or in clinical skills centers. Many factors influence the learning process of clinical skills. In learning clinical skills, there are many aspects that instructors must know, starting from curriculum, manuals, processes, content, instructor role, student motivation and environment. Learning clinical skills is a form of learning in the medical education curriculum which aims to improve the clinical and communication skills of medical education students. The Clinical Skill Lab (CSL) is a means for students to learn basic clinical skills which training is harmless and safe for patients. The addition of video learning media in clinical skills learning is one way to improve students' clinical skills This study aims to see the effect of the addition of video learning media on clinical skills of neuromotor phys-

ical examination of Medical Study Program FKIK UNJA students involving 128 students (Natasha, Shafra, Charles, & Maharani, 2014).

Group A students did not take part in the clinical skills learning session in the laboratory with the instructor, students can continue to practice clinical skills based on the step-by-step guide as shown in the learning video. Thus, learning videos can be a learning medium that needs to be developed into learning resources to overcome the limited time and resources of lecturers that may be encountered in medical faculties. From the comparison of the effectiveness of the Clinical Skill Lab (CSL) with learning using neurology clinical skills learning videos from the demonstration by Aryanty, Puspasari, and Purwakanthi (2014) it shows that videos provide education to increase knowledge. Health education using demonstration method is more effective in improving knowledge, attitudes, and skills of breast care among pregnant women than audio-visual methods (Hayati, Marianthi, Nurhayati, & Sutanto, 2020).

Conclusion

Based on the research data, the largest number of students came from the medical education study program with as many as 308 people (60.3%), and students from the 3rd semester and above were 352 people (68.9%). The results of this study indicate that online clinical skills learning at stage-1 provides an explanation of clinical skills learning using videos and also explanations from the lecturers, and as many as 262 students stated that the clinical skills learning method was good (51.7%), and 293 students (57, 3%) stated that this learning was effective. The results of this study indicate that online clinical learning in stage-2 is to provide a task to make a video of the skills that have been taught, and then a review or response will be conducted by the lecturer according to standard operating procedure and theoretical concepts of these skills. 312 students stated that this stage of learning was good (61%), and students who stated that learning was effective were 268 people (52.4%).

The results of this study indicate that online clinical learning in stages-1 to 2 is providing explanations using videos and explanations from the lecturer, then making video skills according to what has been taught and then responsiveness will be carried out by the lecturer according to standard operating procedure and theoretical concepts of these skills, and as many as 295 students said it was good (57.7%), and 281 people (54.9%) stated that it was effective.

Based on the results of the study, the relationship between learning clinical procedural skills online during the Covid-19 pandemic using videos and lecturers' explanations with learning effectiveness is very strong and has a positive direction. Secondly, the relationship between learning clinical procedural skills stage-2 by giving the task of making clinical

skills videos and reviewing or responding to lecturers as well as evaluating the effectiveness of stage-2 learning is strong and has a positive direction. Lastly, the relationship between clinical learning stages-1 and 2, namely learning using videos and lecturers' explanations, giving the task of making clinical skills videos and reviews or responses from lecturers as well as learning effectiveness is very strong and has a positive direction.

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