



Online Innovative Learning Method At Maternity Nursing Via Youtube Media To Achievement Of Competence In Nursing Students

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Abstract

Background: Online learning during the Covid-19 pandemic requires lecture creativity in teaching nursing procedures, which cannot be conducted face-to-face in the laboratory to achieve student competence. **This research aim** to identify the achievement of competence at maternity nursing in students of Jayakarta Institute of Health use of the online innovative learning method via YouTube media. **Method:** The method this research is quantitative descriptive. Sampling used total sampling technique with number of samples was 30

third-semester students. This study was evaluated competence the student at one semester learning process used media YouTube for the laboratory practice maternity nursing procedure. The data collection conducted by observation method using instrument checklists of Leopold 1-4 examination procedures, delivery assistance or intrapartal, and post-partum examination. The process of data analysis in this studied used descriptive distribution frequency for achievement of competence the student of Leopold examination, delivery assistance and post partum examination procedure. **The results** of this study reported that 100% students can achieve the competence of Leopold 1-4 examination. 100% of students also achieved the competence of normal delivery assistance. 73% of students achieved the post-partum examination procedures. **The conclusion** is that student achievement competence to do examination maternity nursing procedure. Through innovative learning media, it can help students to achieve competence in performing maternity nursing procedures. The Recommendation is YouTube videos can be use as an alternative media for online learning maternity nursing procedures during the pandemic Covid 19.

Keywords: Competence, Maternity Nursing Procedure, Online learning, YouTube media.

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Introduction

During the pandemic Covid-19, learning is conducted online to minimize the risk of Covid-19 transmission (Direktorat Jenderal Pendidikan Tinggi Kemdikbud RI, 2020). Online learning becomes a challenge for lecturers to develop creativity regarding information technology (Munawaroh et al., 2019). Face-to-face learning is conducted in the laboratory only. The lecturer will demonstrate first and students will repeat the demonstration. However since Covid-19, the learning laboratory process is performed online, it needs to be strived by providing examples of action using audio-visual so that students can perform the procedures well. (Munawaroh et al., 2019).

Audio-visual media that can be designed for learning is nursing procedure video. If students must download a nursing procedure video, it requires a large file. One of the attempts carried out is that the lecturer uploads the video via YouTube media. YouTube media is one of the alternatives for online learning media. Youtube is a site that specifically offers video-sharing services. Every visitor can freely watch and downloads videos they want (Media, Laksamana, 2009).

Jayakarta Institute of Health Science in compiling curriculum is based on the curriculum guide by the Association of Indonesian Nurses Education Institutions (Asosiasi Institusi Pendidikan Ners Indonesia & (AIPNI), 2016). In the curriculum, there is a maternity nursing subject. In the odd semester learning plan in the Academic Year of 2020/2021, several competencies have been determined that must be achieved in the maternity nursing subject. The problem is that maternity nursing procedures cannot be performed face-to-face in the laboratory during the Covid-19 pandemic. Based on the problem above, learning strategies that can help students to achieve skills in performing maternity nursing procedures are required. (Murtiningsih; Hanif Abdul Latif, 2021) The competencies that need to be achieved are demonstrating nursing interventions in the antenatal, intra-natal, post-natal (Murtiningsih, 2021). This research used YouTube media for the learning process for help the student can be redemonstrated maternity nursing procedure for achievement competence.

Methods

Research Design

The research used descriptive analytic design. The samples of the study were 30 students in the Academic Year of 2020/2021 who participate in Maternity Nursing 1. The data collection was assessing the ability of students in performing maternity nursing procedures through Objective Structured Clinical Examination (OSCE) in the laboratory by always maintaining health protocols. The observation method using checklists of Leopold 1-4 examination procedures, delivery assistance, and post-partum examination. The instrument for Leopold examination procedure adopt from Modul Maternity Nursing consist of 30 step checklist for



observation. (Murtiningsih, 2020). The instrument for delivery assistance consist of 60 step checklist for observation and post partum examination procedure used checklist from STIKes Jayakarta consist of 10 step checklist for observation. (STIKes Jayakarta, 2020)

Population and samples

The population of the study was students of STIKes Jayakarta. The sampling method used was total sampling. The samples of the study were 30 students who participate in Maternity Nursing 1 (3rd semester).

Instruments

The instrument of this study used the observation assessment format for maternity nursing procedures at STIKes Jayakarta which was adapted from the Ministry of Health. The instrument of the study used an assessment format of maternity nursing procedures, including assessment checklists of Leopold examination procedures (Murtiningsih, 2020), checklist of delivery assistance (STIKes Jayakarta, 2020), and post-partum examination with BUBBLE HE (Breast, Uterus, Bowel, Bladder, Lochia, Episiotomy, Homan's Sign, Emotion).

Procedure

The study was identify achievement of competence the student at maternity nursing through objective structured clinical examination (OSCE) at the end section learning process. The student to demonstrate maternity nursing procedures for abdominal examination of the pregnant woman with Leopold 1-4, normally delivery assistance, and post-partum examination with BUBBLE HE.

Data Analysis

Data analysis in this study used univariate analysis of the frequency distribution. The frequency data consist of achievement competence maternity nursing procedure as Leopold examination, delivery assistance and post partum examination.

Ethical Clearance

This study was considered the ethics of such before examination researcher informed to all student and student give consent and the data confidentiality. This study have received permission from The Institution of Research and Community Services STIKes Jayakarta with licence number 571b/e/AKD/XI/2021 .

Results

The student was give a video of maternity nursing procedures has been made as follows in learning process used YouTube media. The students were asked to watch and practice skills independently by imitating audio-visual media has been made. The YouTube links were provided to students via UMMI Channel, showing the maternity nursing procedures. Besides via YouTube



link, the video can be accessed by barcode scan regarding the maternity nursing procedures. The content video YouTube consist of Leopold examination, assistance delivery and post partum examination procedure. (Murtiningsih; Hanif Abdul Latif, 2021).

After that, the lecturer assessed students using the assessment guide of Jayakarta Institute of Health Science as follows (STIKes Jayakarta, 2021). The instrument examination used checklist procedure STIKes Jayakarta.(STIKes Jayakarta, 2020)

Table 1. Distribution for Assessment Category of Leopold Examination, Delivery Assistance & Post Partum Examination Procedures (N=30)

No	Absolute score	Category	Leopold Examination (N)	%	Delivery Assistance (N)	%	Post Partum Examination (N)	%
1	79-100	Very Good	25	83.3	25	83.3	14	46.7
2	68-78	Good	5	16.7	5	16.7	8	26.7
3	56-67	Fair					2	6.7
4	41-55	Poor					2	6.7
5	0-40	Very Poor					4	13.3
TOTAL			30	100	30	100	30	100

Table 1 showed that students were the practical test score 68-78 with a good category 5 students (16.7%) and the practical score 79-100 with very good category 25 student (83.3%) in the maternity nursing procedures of pregnant woman abdominal Leopold examination. For delivery assistance procedure showed the practical test score 68-78 with with a good category 5 students (16.7%) and the practical score 79-100 with very good category (83.3%). For post partum examination showed that the the practical score 79-100 with very good category 14 student (46.7%). Students practical test score 68-78 with a good category 8 students (26.7%). Base on the data pass limit of the practical test score was 68 achievement of student competence for Leopold examination 30 students (100%), assistance delivery examination 30 student (100%), post partum examination 22 OF 30 students (73%).

Discussion

The results showed that the achievement of student competence for the abdominal examination procedure for pregnant women, Leopold, showed that 100% of students could achieve competence. Based on the results of other studies, it was found that multimedia can assist students in achieving pregnancy examination competencies.(Jumiarti et al., 2018). Another research result to achieve Leopold's examination competence is by using the drill method, where students do exercises repeatedly to carry out Leopold's examinations.(Susiyanti, 2013).



The results of delivery assistance showed that all students were stated passed the practical test with a good and very good category in the maternity nursing procedures of delivery assistance. The results of the study showed that most students can perform delivery assistance procedures very well. In the previous study conducted, the 24 student it was give audiovisual video vaginal delivery assistance at learning process. The study found that there was all student achievement competence of vaginal delivery assistance skills. The score 70-79.9 is 5 (20.83), score 80-89.9 is 15 (62.5) and score 90-100 is 4 (16.7). (Sulistyawati, 2013).

Audio-visual learning media help students to perform simulation of delivery assistance procedures. However, the demonstration method in the laboratory certainly will be better because there is a direct interaction between the lecturer and students. This is in accordance with the study regarding delivery assistance, which stated that the demonstration method is better than using audio-visual media.(Nurhidayati, 2010). The results of this study indicate that the demonstration by the lecturer in person is better than through video. However, during a pandemic, direct demonstration in the laboratory is not yet possible to prevent the transmission of Covid 19. So the alternative to achieving competence is by providing video demonstration procedures, students can continue to study independently without having to gather through face-to-face learning.

The results of the study showed that the majority of students were stated passed the post-partum examination procedures with a very good category. However, students with a very poor score were 13.3%. The achievement for skill competence of post-partum examination procedures was lower than skill competence of delivery assistance and Leopold examination. There are factors influencing learning motivation towards the achievement of competence. A study regarding the use of learning media obtained that there is no interaction between the use of learning media (video and flipchart) and learning motivation to the achievement of postpartum gymnastics competence (p-value = 0.105) (Karuniawati, 2012).

Based on the results of the objective structured clinical examination in this study for the three competences of maternity nursing procedures, it was found that the achievement of Leopold examination procedure competence was 100%, delivery assistance was 100% and post partum examination was 73%. Based on the results of the study showed YouTube media on learning process, students can achievement of competence in maternity nursing procedures. The results of the previous study regarding audio-visual learning media during online learning showed that most students (96.7%) agreed that maternity nursing procedure video helps students to be able to redemonstrate according to the video example. Through audiovisual media, students feel that they can learn independently to achieve competence during the objective structured clinical examination (OSCE). (Murtiningsih; Hanif Abdul Latif, 2021).

Other research related to YouTube learning media shows that learning using YouTube learning media can improve learning achievement during online learning. (Nurul Magfirah, 2021) Learning videos have a positive impact on learning motivation in improving clinical skills in nursing education (Indah Permata Sari; Sundari, 2019). Audio visual video learning media for maternity nursing procedures aims to enable students to absorb knowledge and skills to achieve the expected competencies. The ability of human absorption is influenced by the five senses.



According to Daryanto (2015) in (Karsidi, 2018) the ability of human absorption from the sense of sight is as follows: absorption through sight (82%), hearing (11%), smell (1%), taste (2.5%), touch (3.5 %). Audio-visual learning media is the highest absorption of information through the five senses, so researchers strive to make videos that are uploaded to the YouTube channel to be watched and studied by students.

This study contradicts other studies which explain that students feel uncomfortable learning through YouTube because they cannot ask questions directly through face to face.(Widyanti, 2020). Another study showed that the demonstration method of achievement scored higher than using video tutorials.(Fitri Andriani Setianingsih, 2017). In practical learning, the right learning model is needed so that students able to perform nursing procedures according to standard operating procedures. One of the learning methods applied to nursing skills learning is demonstration. Through the practical demonstration method in the laboratory, it will improve student skills to achieve nursing procedure competence. Based on the results of research on learning demonstration methods, it was found that demonstration learning methods in nursing practicums can improve practical learning outcomes (Astuti & Sakitri, 2021). Other studies have shown that videos are more effective in achieving laboratory competence than using nursing modules (Waluyo, Sunaryo Joko ; Solikah, 2021).

Conclusion and Recommendation

The conclusion is that all student achievement competence to do Leopold examination 100%, competence to do delivery assistance 100%, and achieving the competence to do post partum examination 73%. So that YouTube videos can be used as an alternative media for learning maternity nursing procedures online during the pandemic. Through innovative learning media, it can help students to achieve competence in performing maternity nursing procedures. The Recommendation is YouTube videos can be use as an alternative media for online learning maternity nursing procedures during the pandemic Covid 19.

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