

## **THE INFLUENCE OF NURSING SKILLS LEARNING MEDIA THROUGH VIDEO ON THE ACHIEVEMENT OF STUDENT COMPETENCIES IN THE INSTALLATION OF INFUSIONS**

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### **ABSTRACT**

This study aims to analyze how the influence of video learning media on student competency achievement. The method used in this study was carried out by taking data from PubMed, ProQuest, Google Scholar databases, which were found in 2015-2021. The results showed that some of the learning media used by students were video. In conclusion, video as a learning medium is very influential in increasing knowledge, helping to get information about assignments, knowing the development of information, and can be used as material to deepen the material.

Keywords: Students, Learning Media, Video

### **INTRODUCTION**

A student is any person enrolled in a university who is between the ages of 18 and 30. Students are a group of people in society who gain status due to their association with universities (Dahrizal & Dewi, 2019). Learning media is a learning tool used by a person to facilitate the delivery of material during teaching in schools. This really helps someone who teaches at an institution and is a solution to make students feel happy while studying and not get bored. Rasagama (2020) stated that the benefits of learning media in the learning process include learning motivation will be more fun and not bored in learning. In addition, students can understand meaning, master learning materials faster, and achieve learning goals. With the existence of various teaching methods, teachers do not run out of energy when doing learning.

An important thing in the information processing process is the processing of meaningful encoding, which requires attention to the target process. This encoding process is the core of the learning process. Lack of attention causes the information to be lost. The stimulus can be packaged in a media that can support the learning process in understanding concepts without being limited by space and time (Putrianti, 2019).

According to Wibowo's research (2016) the analysis conducted using paired t-test, the use of instructional video media can be used to improve student learning outcomes in social studies subjects about the shape of the earth and the activities of the Indonesian population because the increase in learning outcomes in the intervention class is higher than the control class.

Learning video is a type of learning media that combines elements of sound and motion, so that it can convey the original state as in the field, audiovisual learning media using video types, video can depict an object moving together with natural sounds or appropriate sounds. It is known that students are easier to understand information and learning through media such as YouTube. This is because the delivery of material through books is considered conventional and boring compared to delivery

through video. So that learning through video media can be used as a means of teaching and learning to increase students' interest and motivation for learning (Mujiyanto, 2019). In making or establishing learning media, it is necessary to pay attention to the criteria for media selection. Arsyad conveyed that the criteria that must be considered include conformity with the goals to be achieved, supporting the content of the lesson, practical, flexible and defensive, teacher skills in using, grouping goals, and technical quality.

**RESEARCH METHODS**

The study was conducted through three stages: 1) Utilizing an academic database, the compiler searches for and retrieves articles and resources relevant to the topic under study. 2) The compiler selects the articles and sources taken to identify the most supportive journals. 3) The compiler collects information, in the hope of identifying and prioritizing interventions. The databases used in the search process are Pubmed, Proquest, and Google Scholar.

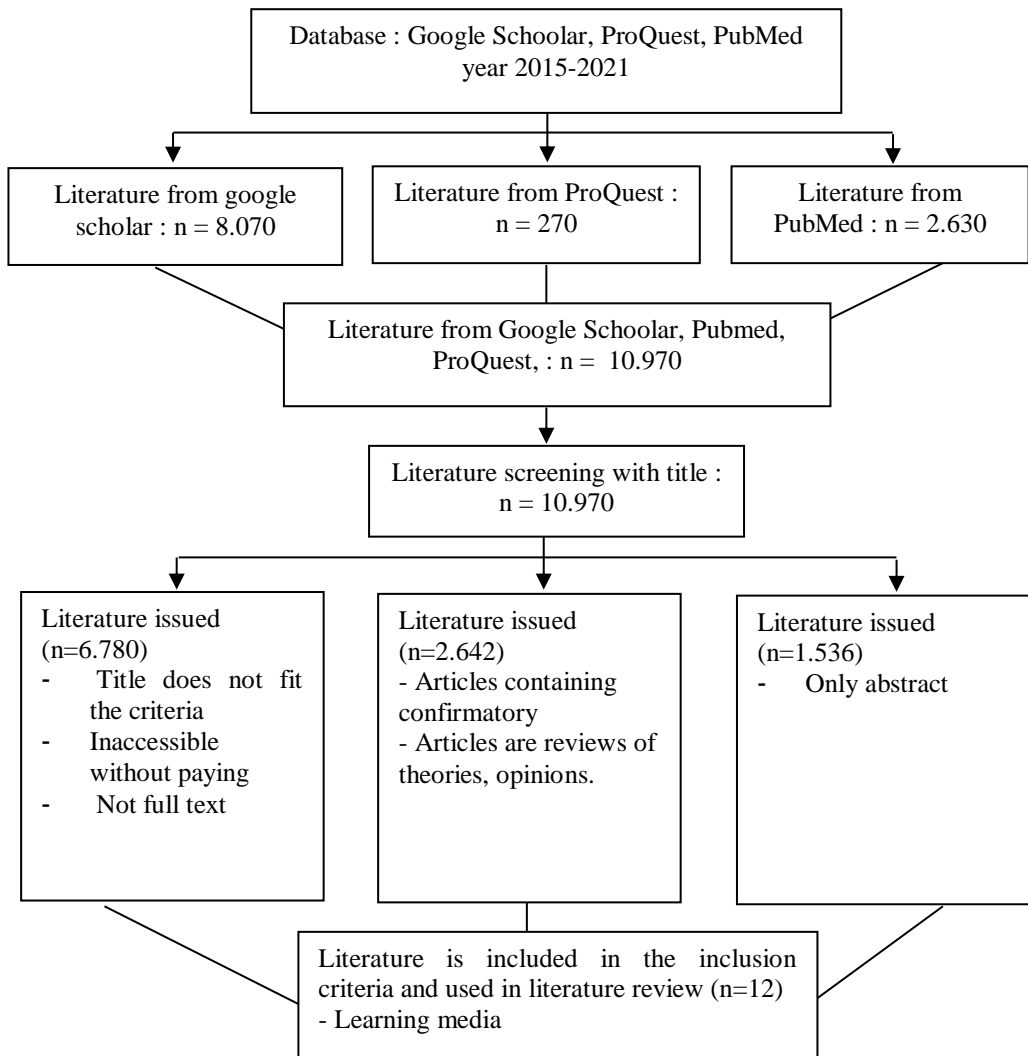


Figure. 1  
Prism Flowchart

## Inclusion and Exclusion Criteria

Table. 1  
Inclusion and Exclusion Criteria

Criteria	Inclusion	Exclusion
<i>Population/ Problem</i>	Research journals related to research topics.	In addition to research journals related to research topics.
<i>Intervention</i>	Analyzing the influence of YouTube learning media on student competency achievement.	In addition to analyzing the influence of YouTube learning media on student competency achievement.
<i>Comparison</i>	There is no comparison factor	There is no comparison factor
<i>Outcome</i>	There is effectiveness in the learning methods used on the achievement of student competencies.	No effectiveness
Publication Year	Articles or journals published from 2015 to 2020	Articles or journals published under 2015
Language	English and Indonesian	Apart from English and Indonesian

## RESULTS

Table. 2  
Literature Review Results

Author Name, Article Title, Literature Type	Year	Aims	Findings
Slater et al., Explaining Variance in Self-Directed Learning Readiness of First Year Students in Health Professional programs, Quasi experiment	2017	To find out the variant of Self-Learning Readiness of First Year Students of the Health Profession Program	There is the effect of using video on social media on catheter placement skills in nursing students.
Mujianto, Utilization Of Youtube As A Teaching Media In Increasing Learning Interest and Motivation, Explanatory research method with descriptive and verification approach.	2019	To find out the use of Youtube as a teaching medium in increasing interest and motivation to learn	The results showed that the use of Youtube as a teaching medium played a significant positive role in increasing student interest in learning. Youtube also has a significant positive role in increasing student learning motivation
Tutiasri et al., Utilization of Youtube as a Learning Media for Students in the Midst of the Covid-19 Pandemi, descriptive qualitative method.	2020	To find out the use of Youtube as a learning medium for students in the midst of the COVID-19 pandemic	The development of the times will continue to lead to progress, especially in the field of technology. The sophistication of learning technology at the time of the pandemic is now very much needed by both teachers or lecturers as well as recipients of the material, namely students

Rapp et al., YouTube is the Most Frequently Used Educational Video Source for Surgical Preparation, Explanatory research method with descriptive and verification approach	2020	To evaluate surgical preparation methods of medical students, residents, and faculty with particular attention to the use of video	Video is the preferred source. Posting surgical videos to YouTube allows maximum access for students preparing for surgical cases.
Sutherland & Jalali, Social media as an open-learning resource in medical education: current perspectives, Evaluative methods and undertake empirical research	2017	This study conducted a systematic review of the published literature in medical education to determine the state of evidence for empirical studies conducting evaluations	There is a paucity of results-based empirical studies assessing the impact of social media in medical education.
Alobaid, Smart multimedia learning of ICT: role and impact on language learners' writing fluency— YouTube online English learning resources as an example. Smart Learning Environments, Explanatory research	2020	To determine whether and to what extent the intelligent learning environment of Information and Communication Technology (ICT) tools such as YouTube can help improve learners' fluency in the use of language	The results of this study indicate that there are statistically significant differences in some, but not all aspects of students' writing fluency; In essence, the accuracy and organization of ideas as qualitative dimensions of fluency increased after actual exposure to YouTube over five months as long as factors such as engagement,
Rasagama, Pengembangan Model Pembelajaran Getaran Berbasis Video Youtube Untuk Meningkatkan Pemahaman Konsep Mahasiswa Politeknik, R&D approach in 4 stages as a result of modified R&D method by Borg and Gall	2020	To find out: (i) video- based vibration learning model from <a href="http://youtube.com">http://youtube.com</a> to improve concept understanding; (ii) the feasibility of the learning model; and (iii) the strengths and weaknesses of the learning model.	Video improve understanding of vibration concepts based on several learning videos
Samosir et al., Open access under Creative Commons Attribution-Non Commercial-Share A like 4.0 International Licence (CC-BY-SA) Record and Library Journal The Effectiveness of Youtube as a Student Learning Media (Study at the Faculty of Social and Political Sciences, Uni, Descriptive qualitative	2018	To learn learning from YouTube as a medium for student learning.	The results of this study indicate that students have a high level of gadget use and are always connected to the internet. Students almost every day open the youtube application on their gadgets.

The results of this literature review identified 9 articles. Most of the papers discuss about One of the learning media used by students is Video .Those articles written in Indonesian relating to the results of research on the influence of Video learning media. The results of the literature review can be seen in the table below.

The results of this study indicate that there are statistically significant differences in some, but not all aspects of students' writing fluency; In essence, the accuracy and organization of ideas as qualitative dimensions of fluency increased after actual exposure to YouTube over five months as long as factors such as engagement, enhancement and clarity were provided by multi-media input.

The development of the times will continue to lead to progress, especially in the field of technology. The sophistication of learning technology at the time of the pandemic is now very much needed by both teachers or lecturers as well as recipients of the material, namely students

## **DISCUSSION**

This literature review discusses about the influence of Video learning media on student competency achievement. Because from some of the articles that have been reported, it turns out that learning media, especially Video, is very influential on students in doing assignments so they don't get bored. In learning activities, we can use Video as a media for teaching so that learning is fun, not monotonous. Because along with the development of technology and information development, it will certainly have an impact on education and learning media, several subsystems that determine the success of learning include media or learning aids, technology and teaching staff, and lecturers who are facilitators in the teaching process.

The results of research by Alfiansyah et al., (2022) show that learning by means of live streaming in the laboratory is effective in increasing student knowledge in achieving targets Basic 2000 course competencies.

The phenomenon of very significant progress in the field of communication science, triggers some experts to dub the phenomenon as the communication revolution (Mujianto, 2019). The development of technology and communication makes it easier for people to connect with various information making it easier to carry out daily activities. Through mobile devices and computers, people can also carry out several activities, such as watching, searching for information, using social media (when connected to the internet). This resulted in their behavior changing where they used to have to use television when watching but now they can use YouTube to view various videos. Tohari et al., (2019) said that the effects resulting from technological developments have been recognized and the results can be enjoyed by many people in terms of the convenience and comfort that is served.

Students are the next generation, namely the generation that makes gadgets as their primary need where they cannot be separated from using gadgets and are always connected to the internet.

Rasagama (2020) suggested several benefits of learning media in the learning process of students, namely, among other things, students' learning motivation will grow with learning that is more interesting, allows students to better understand its meaning and master learning materials and can achieve learning goals, students are also not bored and In addition, the teacher does not run out of energy with the varied teaching methods and not merely verbal communication by the teacher, students can do more learning activities and activities such as observing, practicing, demonstrating,

acting, and so on. In making and determining learning media, it is necessary to pay attention to the media selection criteria. Alobaid (2020) argues that several criteria that must be considered when choosing include suitability with the objectives to be achieved, supporting the content of the lesson, being more practical, flexible and enduring. Ergen (2018) explained that there are several factors and criteria that must be considered, including objectivity, suitability of teaching programs, program objectives, situations and conditions, and technical quality (Monika et al, 2021).

Video can be a reflection medium for teachers to evaluate the previous learning process so that in the future it is able to change the way of managing the class which has an impact on improving students' learning motivation (Samosir et al., 2018). Video can also overcome the limitations of distance and time, repeated when needed, developing students' opinions and imaginations, serta menurut Mell Silberman bahwa pembelajaran dengan video (visual) mampu meningkatkan ingatan dari 14% menjadi 38% dan perbaikan 200% kosa kata peserta didik (Dahrizal & Dewi, 2019; Tohari et al., 2019).

Terdapat beberapa alasan yang dapat mendukung penggunaan youtube sebagai media pembelajaran salah satunya adalah pemanfaatan youtube yang nyata, youtube juga digunakan sebagai media branding lembaga atau organisasi, situs website media sharing video online terbesar dan paling populer di dunia internet saat ini, mudah dan gratis, sumber yang memadai dengan tersedianya berbagai macam Video, serta bentuk audiovisual sehingga menimbulkan motivasi untuk belajar bagi peserta didik.

## CONCLUSION

Learning media with Video plays a role in increasing knowledge, helping to get information about assignments, knowing the development of information, deepening the material, to find out technical matters as an example of the real form of the material being studied.

## SUGGESTIONS

Modern learning media that can add insight to make learning interesting and not boring, students can be more skilled in performing nursing actions.

## REFERENCE

- Alfiansyah, R., Fajjurahman, A. Namdani, H. T. (2022). Efektivitas Pembelajaran Live Streaming "Mini Laboratorium" terhadap Pencapaian Kompetensi Mata Kuliah Keperawatan Dasar. *Jurnal Ilmiah Kesehatan Keperawatan*, 18(1), 1-6. <https://ejournal.unimugo.ac.id/jikk>
- Alobaid, A. (2020). Smart Multimedia Learning of ICT: Role and Impact on Language Learners' Writing Fluency-YouTube online English Learning Resources as an Example. *Smart Learning Environments*, 7(1). <https://doi.org/10.1186/s40561-020-00134-7>
- Dahrizal, D., & Dewi, G. (2019). Belajar Melalui Video di Media Sosial Dapat Meningkatkan Keterampilan Pemasangan Kateter pada Mahasiswa Keperawatan. *Journal of Telenursing (JOTING)*, 1(2), 386-395. <https://doi.org/https://doi.org/10.31539/joting.v1i2.842>
- Ergen, Y. (2018). Popüler Kültürün Popüler Roll Modelleri YouTuberlar: İlköğretim Çağındaki Zel Okul Öğrencileri Zerine Bir Araştırma. *Journal of Humanity and Society (İnsan & Toplum Dergisi)*, 9(1), 1-38. <https://doi.org/10.12658/m0284>

- Mujiyanto, H. (2019). Pemanfaatan Youtube Sebagai Media Ajar dalam Meningkatkan Minat dan Motivasi Belajar. *Jurnal Komunikasi Hasil Pemikiran dan Penelitian*, 5(1), 135–159. <https://journal.uniga.ac.id/index.php/JK/article/view/588>
- Monika, A., Pratiwi, B. A., Febriawati, H., & Wati, N. (2021). Pengaruh Promosi Kesehatan dengan Metode Video terhadap Pengetahuan Siswa Siswi Kelas XI tentang Seksualitas Remaja di SMAN 07 Kota Bengkulu. *Jurnal Ilmiah Mahasiswa Miracle*, 1(1), 47–54. <http://jurnal.umb.ac.id/index.php/miracle/article/view/1832>
- Putrianti, B. (2019). Efektivitas Media Flipchart dan Video terhadap Pembelajaran Pemasangan Kateter Wanita pada Mahasiswa Semester I. *Jurnal Kesehatan Karya Husada*, 7(1), 1-11. <http://jurnal.poltekkeskhjogja.ac.id/index.php/jkhh/article/view/265>
- Rapp, A. K., Healy, M. G., Charlton, M. E., Keith, J. N., Rosenbaum, M. E., & Kapadia, M. R. (2016). YouTube is the Most Frequently Used Educational Video Source for Surgical Preparation. *Journal of Surgical Education*, 73(6), 1072–1076. <https://doi.org/10.1016/j.jsurg.2016.04.024>
- Rasagama, I. G. (2020). Pengembangan Model Pembelajaran Getaran Berbasis Video Youtube Untuk Meningkatkan Pemahaman Konsep Mahasiswa Politeknik. *Jurnal Pendidikan Sains (JPS)*, 8(2), 91. <https://doi.org/10.26714/jps.8.2.2020.91-101>
- Samosir, F. T., Pitasari, D. N., & Tjahjono, P. E. (2018). Open Access Under Creative Commons Attribution-Non Commercial-Share a like 4.0 International Licence (CC-BY-SA) Record and Library Journal the Effectiveness of Youtube as a Student Learning Media (Study at the Faculty of Social and Political Sciences, Uni. *Record and Library Journal*, 4(2), 81–91. <https://e-journal.unair.ac.id/index.php/RLJ>
- Slater, C. E., Cusick, A., & Louie, J. C. Y (2017). Explaining Variance in Self-Directed Learning Readiness of First Year Students in Health Professional Programs. *BMC Medical Education*, 17(1), 1–10. <https://doi.org/10.1186/s12909-017-1043-8>
- Sutherland, S., & Jalali, A. (2017). Social Media as An Open-Learning Resource in Medical Education: Current Perspectives. *Advances in Medical Education and Practice*, 8, 369-375. <https://doi.org/10.2147%2FAMEP.S112594>
- Tohari, H., Mustaji, N., & Bachri, BS (2019). The Effect of Youtube Usage on Student Motivation and Learning Outcomes. *Kwangsan: Journal of Educational Technology*, 7(1), 1–13. <https://doi.org/10.31800/jtp.kw.v7n1.p1--13>
- Tutiasri, R. P., Laminto, N. K., & Nazri, K. (2020). Pemanfaatan Youtube sebagai Media Pembelajaran bagi Mahasiswa di Tengah Pandemi COVID-19. *Jurnal Komunikasi*, 2(2), 1-15. <https://ejurnal.ubharajaya.ac.id/index.php/KOMASKAM/article/view/311/237>
- Wibowo, A. (2016). *Pengembangan Media Buku Saku sebagai Sumber Belajar Siswa Kelas X Jurusan Jasa Boga pada Mata Pelajaran Ilmu Gizi Materi Pokok Zat Gizi Sumber Tenaga di Sekolah Menengah Kejuruan Negeri 3 Purworejo*. Universitas Negeri Yogyakarta. <http://eprints.uny.ac.id/id/eprint/33488>