

The Effectiveness of the Korean Drama Movies "The First Responders" To Increase High School Student's First Aid in Accident Knowledge

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Submitted: 07 February 2025 Accepted: 17 February 2025 Published: 24 February 2025

doi <https://doi.org/10.63620/MKWJSNR.2025.1021>

Citation: Baskoro, M., & Febrianti. (2025). The Effectiveness of the Korean Drama Movies "The First Responders" To Increase High School Student's First Aid in Accident Knowledge. *Wor Jour of Sens Net Res*, 2(1), 01-06.

Abstract

Background: Knowledge of the general public, including students, regarding first aid in accidents (FAA) is needed to minimize the case severity experienced by accident victims. Korean drama movies have been proven to be feasible as a media for mental health education, but it is not yet known whether they can be used to increase knowledge about FAA.

Methods: The research carried out was a pre-experimental study with one group pretest-posttest on 25 students who had never watched the movies "The First Responders", had never taken first aid training, and were not afraid or traumatized by watching bloody scenes. Research subjects watched the first episode of the first session of the movies together for 1 hour 5 minutes. Before and after watching, students filled out a questionnaire to measure FAA knowledge.

Results: Ninety-two percent (92%) of students experienced an increase in FAA knowledge scores after watching the movies. This showed that the Korean drama movies "The First Responders" was effective in increasing students' knowledge about FAA.

Conclusions: Based on the results obtained in the study, it can be concluded that the use of the Korean drama movies "The First Responders" is able to increase students' knowledge of first aid issues in accidents. It is suggested that further research is needed for measurement of other movies and in other age groups with experimental design.

Keywords: Korean Drama Movies, Health Education, First Aid in Accidents, Student, Pre- Experimental.

Introduction

Of the various countries in ASEAN, Indonesia is one of the countries with a high accumulation of patient visits to the emergency room, reaching 4,402,205 patients in 2017 [1]. Head of the Health Crisis Center of the Indonesian Ministry of Health, Dr. Budi Sylvana, stated that of the deaths recorded in Indonesia, 70% of them were before reaching the hospital [2]. According to WHO, one of the factors leading to a high likelihood of death and increased severity in victims is due to delays in detecting and providing care to them [3]. Meanwhile, handling emergencies is a race against time. If there is a delay of just a few minutes in response, it can lead to the victim's health condition in the form of disability, death, or health. For example, when an accident occurs and the victim has a head injury, the best time

to help him is the first 4 minutes after the incident. If there is a delay of more than 30 minutes, the rescue success rate will drop to 20% [4].

In overcoming the occurrence of various emergency cases, the Minister of Health issued Minister of Health Regulation No. 19/2016 on the Integrated Emergency Management System which contains the manifestation of improving the quality of services in handling victims or emergency patients. The regulation states that emergency cases are included as pre-facility handling of health services listed in Article 19-part a. As for the reporting flow, the reporter contacts the 119-call center which will be received by the National Command Center which will then be forwarded to the district / city PSC (Public Safety Care)

if the service needs are emergency. Emergency handling at the district/city PSC includes handling emergencies using bed information needs, information on the nearest health facility, and ambulance information [5].

If only waiting for the implementation of first aid by medical personnel, the response time is often delayed. This is because medical personnel are not always around the scene of an emergency, especially with the time that must be spent on the trip. Therefore, it is necessary to educate ordinary people regarding the proper procedures for implementing first aid because there are still many people who do not understand how to take first aid measures. Based on research by Retno Lusmiati Anisah, it is found that a person's ability to provide first aid to victims of accidents or emergencies is influenced by the knowledge possessed by the person aiding [6]. Based on research by Herry Prasetyo (2021), it was found that only 10% of respondents had good skills in performing first aid [7]. In addition, research conducted by Mimi Rosiska (2024) found that respondents with poor abilities were 85.5% in performing first aid in bleeding cases [8].

One of the groups that can be targeted for first aid education is students. One of the reasons is because school students are easier to reach than adults because they are already busy with work, and they also have a greater possibility of being injured and needing immediate first aid than adults because they tend to be injured from their physical activities at school or in other environments [9]. The possibility of injury is evident from the Riskesdas data where the prevalence of injuries that cause daily activities to be disturbed is in the age range of 15-24 years at 12.2% [10]. In addition, adolescents are also known as an age group with a high level of sensitivity to new developments, allowing them to quickly adapt to changing times [11]. Therefore, adolescents are the easiest target to reach and have the potential to understand more quickly when given education, especially health education.

In encouraging students to have fast and precise behavior in performing first aid actions wherever they are, it is necessary to have adequate first aid knowledge to be possessed by students. However, after conducting a preliminary study conducted on 30 students of SMA Islam Al-Azhar BSD, it was found that 43.3% of students still had a poor level of first aid knowledge. These results are also in accordance with research conducted by Vinay Kumar, where it was found that most of the high school students who were respondents still had poor knowledge of first aid, namely 62% of students aged 15-17 years [12].

Something that can be done to overcome the poor knowledge of first aid in students is to conduct health education. One of the tools that can be used to help improve understanding of first aid is through audio visual media. The application of audio-visual media is considered to have a better ability and is interesting for students to accept because there are elements of images and sound [13]. Audio visual media is also able to make people who use it able to remember 50% of the messages conveyed from what has been seen and heard from the broadcast [13]. One form of audio-visual media that can be used as educational media is Korean drama movies.

Based on the preliminary study, it was found that 84.2% of respondents increased their knowledge related to general matters,

such as medical terms, fire management, forensic operations, and so on, contained in Korean drama movies and followed by 78.9% of respondents who increased their insight into Korean culture. Based on the preliminary study data, it can be seen that Korean drama movies can also be used as a medium for education. Similar results were also found by Astriani et al in their research, that movies media proved effective in improving students' cognitive abilities [13]. From various research results, it is evident that students still have poor knowledge about first aid in accidents. This should be watched out for because it can result in the student's behavior becoming negative when performing first aid. The danger if there is doubt on the part of the helper is that it can result in the wrong action taken in saving the victim. Therefore, the author is interested in analyzing the effectiveness of Korean drama movies on the change of knowledge of high school students about first aid in accidents (P3K). In addition, research on the effectiveness of Korean drama movies as accompanying media in health counseling to change health knowledge, especially first aid, is still very minimal in Indonesia. Indonesia, so the author is interested in conducting this research.

Methods

This type of research is quantitative research that uses a Pre-experimental study research design with One-Group Pre-test-Posttest Design which aims to identify the effectiveness of Korean drama movies on changes in knowledge in high school students about first aid before and after watching Korean drama movies. The population in this study were students of SMA Islam Al-Azhar BSD grade 11 and 12 aged 15-18 years. The sampling method applied in this study is non-probability, specifically purposive sampling. This sampling method is done by determining certain criteria that are in accordance with the research. In this study, the sample was selected based on the inclusion criteria in the form of active school students, had never watched "The First Responders" before, not afraid or traumatized by bloody scenes and found as many as 26 students. After that, the sample was filtered again using the exclusion criteria of being less than 15 or more than 18 years old, having first aid experience, not filling out the pre- test or post-test and finally found that the sample used was 25 students.

The sampling was carried out by coordinating with the school by providing recommended classes that could be intervened. After the class was selected, the researcher asked the students' willingness to become respondents by filling out informed consent and asking directly about the requirements to become respondents according to the inclusion criteria and if the students did not fit the criteria, the students were allowed to leave the class. After the respondents were selected, the researcher distributed the pre-test questionnaire before watching. Then, the data in this study were processed using univariate analysis. This research has been submitted for ethical clearance to the Research Ethics Commission of the Faculty of Health Sciences, Syarif Hidayatullah State Islamic University Jakarta and has been approved with letter number B-8371/F.10/TL.00/11/2023.

Results and Discussions

After conducting research on 25 students, the results of the frequency distribution of respondents according to age and gender are shown in Table 1. It is known that majority of respondents

were 16 years old (72%), followed by 17 years old (16%), and finally 15 years old (12%). Based on gender, most respondents were male as many as 14 students (56%) and female as many as 11 (56%).

Table 1: Characteristics of respondents

Characteristics	(n=25)	Percentage (%)
Age		
15	3	12
16	18	72
17	4	16
Gender		
Girl	11	44
Boy	14	56

Based on Table 2, most respondents' answers have increased from pre-test to post-test. Such as question item number 2 which states that students become more aware of performing first aid in handling stab wounds from 36% to 92%. However, there are 2 question items that have decreased such as question item number 1 related the meaning of P3K from 76% to 72% which can be possible because the answer choices look similar, so respondents choose the wrong answer, and this is not discussed in the

Korean drama movies played. In addition, question item number 4 related to the people that should be contacted when the case occurs also decreased from 88% to 76%. This can occur because in the scene of the Korean drama movie used, the victim did not immediately contact the paramedics, but contacted his parents because in the storyline, the victim did not contact the paramedics but contacted his parents because in the storyline the victim was in a state of panic due to being kidnapped.

Table 2: Student's Knowledge Before and After Watching Korean Drama Movies

No	Question	Pre-Test	Post-Test
		Correct	
1	The meaning of P3K	76%	72%
2	Become more knowledgeable in handling stab wounds	36%	92%
3	The best thing to do when seeing a stab wound case	40%	72%
4	The people that should be contacted in the event of a stab wound	88%	76%
5	Appropriate actions to take for stab wounds before medical personnel arrive	80%	84%
6	Things stab wound victims can do before medical personnel arrive	72%	84%
7	The term when the body has a case of severe bleeding	28%	64%
8	Nail pressing to check the severity of bleeding	76%	88%
9	Things to look for when pressing the nail when bleeding occurs	88%	92%

Based on Table 3, it is found that the highest percentage is in the effective category at 92%, while the ineffective category is less with only 2%. Therefore, the use of Korean drama movies is effective as an accompanying media to change students' knowl-

edge related to first aid in accidents (P3K) about stab wounds carried out on high school students who attend schools where the research was conducted.

Table 3: The Effectiveness of Using Korean Drama Movies on First Aid Knowledge

Effectiveness of Korean Drama Movies	Percentage (%)
Effective	92
Ineffective	8
Total	100

In this study, the characteristics of respondents were 15-17 years old, with the most dominant age being 16 years old for 18 students. Based on the age classification by the Ministry of Health, this phase is included in the adolescent group. At this stage, ado-

lescents have the ability to acquire and use knowledge efficiently because their brains have reached the stage of maturity [14]. In developing this thinking ability, practice and exposure to various information are important. The attitudes and behavior of

adolescents will be influenced by their cognitive abilities, so that the attitudes and behaviors seen are the result of considerations made based on the cognitive abilities possessed by these adolescents [15]. As a person gets older, there is a tendency that the ability to capture and develop his mindset. With age, a person has a better ability to understand and process information, which in turn can result in an increase in overall understanding and knowledge [16].

The media that was used in this study was Korean drama movies as a form of audio-visual media. Korean drama movies are used as media because they are popular in the public and contain a lot of knowledge, both implicitly conveyed through scenes and explicitly through dialog. In addition, Korean drama movies are also able to raise self-awareness about things they had never expected. In the research of Van My Ta Park et al, it was found that respondents who were previously unaware of bullying cases at school became aware that bullying cases may be more common than they expected and became more sympathetic to those who were bullied [17]. The use of media in learning activities has a very important role because it can improve student learning outcomes and also increase their motivation to learn [18]. The existence of motivation is one of the factors that affect student achievement in learning. Students who have high learning motivation tend to have high learning outcomes as well [18]. The use of Korean drama movies has also proven to be able to be used as educational media. As the results obtained from a study entitled "Using Korean Dramas as a Precision Mental Health Education Tool for Asian Americans: A Pilot Study." In the study, it was found that Korean dramas are feasible to use as an innovative and widely available health education tool to educate the public about mental health [19]. Korean drama movies have also been applied in the research of Sindy Firdaus (2023) which found that the average value of student learning outcomes taught by utilizing Korean drama movies media has higher results than students who are not taught with this media [20].

In this Korean drama movie, there is a lot of material conveyed, both implicitly in the form of scenes and explicitly explained through dialog. For example, before starting the action, Song Seol as a paramedic collects the victim's information first quickly and clearly before giving advice regarding the next action that needs to be taken by the victim. This is in accordance with the attitude and behavior of a helper in performing first aid where before starting to act, it is necessary to collect information quickly and clearly [21]. The principles of implementing first aid are also well conveyed even though they are conveyed implicitly by only showing scenes without explanation, such as in the principle of prioritizing one's own safety, and rescue is carried out immediately in order to reduce the risk of further injury to the victim [22].

This principle can be seen from the scene of the use of complete personal protective equipment by firefighters and paramedics before helping victims, as well as from the scene of the paramedic, Song Seol, who was responsive to helping after the victim was taken out of the fire scene. In addition, another exemplary scene is shown, which is to perform first aid in a safe place. Likewise, with the content of handling cases of bleeding, such as the implementation of one way of handling cases of bleeding, which is by pressing directly on the wound until before getting more optimal help by medical personnel. Handling in the form of pressing

the wound is shown in the scene, where the victim is advised to continue pressing the wound before the medical staff arrives at the location. the wound before medical personnel arrives at the location. In addition, a brief explanation of Hemorrhagic shock is also conveyed in the form of dialog. Hemorrhagic shock itself is a condition where the body loses blood rapidly [23].

Although many question items have increased, there are questions that have decreased. question that has decreased, that is about the acronym for P3K from the previous 73.1% to 69.2%. This can be possible because the answer choices seem similar, so that respondents choose the wrong answer and this is not discussed in the Korean drama movie played, but only mentioned by the instructors before watching the Korean drama movie. In addition, the question related to who should be contacted when a stab wound occurs also decreased from 84.6% to 73.1%. This can occur because in the Korean drama movie used, the scene that occurs is that the victim who experiences a stab wound does not immediately contact paramedics or emergency medical personnel but contacts his parents first because in the storyline the victim is also experiencing kidnapping. This caused panic in the victim, so the first party contacted was the parents. After that, the parents forwarded what happened to the authorities, such as the police and medical staff. Although there were two questions that experienced a decrease in percentage, this was not comparable to other material that was more practical and substantial which experienced an increase.

In this study, it was found that the use of Korean drama movie media was effective in changing knowledge. This can be seen from the high percentage in the results of media effectiveness, which is 92%. These results are in line with research conducted by Diandra Rizki Ishromaniar, that the intervention group using audio-visual media is more effective in health counseling because it arouses great curiosity in a person [24]. Research conducted by Astriani et al also obtained the same results in the form of proven effectiveness of film media in improving students' cognitive abilities.15 However, Magdalena Prihatin Ningsih (2021) had different results where she concluded in her research that the effectiveness of using the demonstration method to make knowledge about IV A examination better than using film media [25].

Although it was found that the Korean drama movie media was effective in changing knowledge, the change in knowledge between pre and post was not too far in percentage. As in the question item the right action before the medical officer arrives from the beginning 80% to 84%. The thing that causes changes in knowledge about first aid in students is because the messages conveyed in Korean drama movies are more in the form of implied messages, which are through the scenes shown without a more detailed explanation through dialog. Unlike videos that are designed for health education. In health education videos, it is designed so that the information conveyed is clear and structured regarding the aspects of the intended problem [26]. Whereas in the Korean drama movie "The First Responders" used in the research, the highlighted problem is not only related to the problem of stab wounds, but there are also problems from handling fires and investigating kidnapping cases by the police, so that the knowledge of first aid that should be obtained by the first responders is not only related to the problem of stab wounds.

The knowledge of about first aid that should be obtained by the audience becomes more complex to be observed by students. Thus, there needs to be further guidance or discussion by presenters or teachers in conducting education using Korean drama movies so that the messages conveyed can be understood more deeply by the target and do not cause misperceptions by the target. Even so, the use of Korean drama movie media can still change students' knowledge through interesting scenes and stories, as can be seen that the target shows his enthusiasm when watching Korean drama movies.

Conclusion

Based on the results of the analysis of each question item, the question that has the lowest score in the pre-test is a question related to the term when the body experiences a severe bleeding case of 28% because the term only appears as a dialog between characters and even the change in the post test only increases slightly to 64%, so further explanation is needed by teachers or people who know more so that students who watch can increase their knowledge and become more aware of the material in it. The highest in the pre-test is about the best person to contact in the event of a stab wound and Things to look for when pressing the nail when bleeding occurs at 88%. The highest question of the post-test was the question of becoming more familiar with handling stab wounds and what to look for when pressing the nail when bleeding by 92%, and the use of Korean drama movies media "The First Responders" first episode was effective as a companion media in first aid education by 92%. It is recommended for further research, namely testing the effectiveness of Korean drama movies on increasing knowledge about health by using experimental methods.

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