



THE INFLUENCE OF ANIMATED VIDEOS ON ADOLESCENTS' KNOWLEDGE AND ATTITUDES ABOUT PREMARITAL SEX AT ISTIQOMAH MUHAMMADIYAH 4 VOCATIONAL SCHOOL, SAMARINDA

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Abstract

Premarital sex is a behavior in which a person engages in sexual intercourse with the opposite sex without coercion and with or without a romantic relationship. Adolescents' attitudes toward premarital sexual activity are influenced by various factors, including knowledge, culture, mass media, personal experiences, the role of educational and religious institutions, and the individual's own emotional state. Audiovisual media is an effective medium for conveying messages about early sex education to adolescents. This type of media is an appropriate learning strategy for adolescents because it is engaging and engaging. To analyze the effect of animated video-based health education on increasing adolescents' knowledge and attitudes regarding Premarital Sex. This study used a Quasi-experimental design with a One Group Pre-test and Post-test. The study was conducted in September 2025. The population was all eleventh-grade students of SMK Istiqomah Muhammadiyah 4 Samarinda. The sample consisted of 99 people. The type and collection of data were primary data using a questionnaire. The statistical test used was the Wilcoxon Test. There is an influence between knowledge before and after being given health education using animated videos with a p value <0.001. There is an influence of respondents' knowledge and attitudes after being given health education using animated video media on adolescents' knowledge and attitudes about Premarital Sex at SMK Istiqomah Muhammadiyah 4 Samarinda.

Keyword : Electronic Medical Records, PIECES, Medical Recorder, Balaraja Regional Hospital, Health Information System Evaluation

Introduction

Adolescence is a vulnerable and high-risk developmental phase, often marked by various problems, including premarital sex behavior. Adolescents, especially males, have distinct characteristics such as high curiosity, a desire for challenges and adventure, and a tendency to take risks without mature consideration. This curiosity drives them to try things that adults do, including exploring their sexuality, which can lead to premarital sex behavior (Shakti et al., 2022). Premarital sex is a behavior where someone engages in sexual activity with the opposite sex without coercion and with or without a romantic relationship (Darmawan, 2018). According to Sebayang et al. (2018), sexual behavior is a form of behavior that aims to attract the opposite sex, such as dancing, grooming, flirting, and more. Sebayang et al. (2018) also mention that stages of sexual behavior include kissing, necking, petting, and intercourse.

The attitude of adolescents towards premarital sex is influenced by various factors, including knowledge, culture, mass media, personal experience, educational institutions, and emotional

conditions (Andriani et al., 2022). According to the National Family Planning Coordinating Board (BKKBN), in 2014, 46% of adolescents aged 15-19 had engaged in premarital sex. The Indonesian Child Protection Commission (KPAI) reported that 62.7% of junior high school students in Indonesia had lost their virginity. BKKBN also revealed that the increase in premarital sex cases among adolescents is influenced by easy access to information about sex through the internet.

The impact of premarital sex on adolescents can lead to unwanted pregnancy, stress, and transmission of sexually transmitted diseases like HIV/AIDS. Therefore, solutions are needed to address adolescent problems by increasing knowledge about prevention of risky behavior and its impacts. One solution is sex education for adolescents, which can be delivered through audiovisual media like animated videos. Sex education is crucial for adolescents to prevent risky behavior and its impacts. According to Asnita (2021), sex education can increase knowledge and awareness of adolescents about premarital sex. Animated videos are an effective medium for delivering sex education to adolescents because they are engaging and not boring.

Previous research has shown that sex education through video media can increase knowledge and attitudes of adolescents about premarital sex. Rahmadani et al. (2024) found that there was an increase in knowledge and attitudes of students about premarital sex after receiving sex education through video media. Asnita (2021) also found that there was an influence of health education through animated video media on knowledge and attitudes about premarital sex among adolescents. Based on the background above, the researcher is interested in examining the level of knowledge and attitudes of adolescents about premarital sex through animated videos. The results are expected to provide a basis for more effective health education interventions, especially in school settings. In conclusion, premarital sex behavior is a significant problem among adolescents, and sex education is crucial to prevent risky behavior and its impacts. Animated videos are an effective medium for delivering sex education to adolescents. This study aims to determine the level of knowledge and attitudes of adolescents about premarital sex through animated videos, and the results are expected to provide a basis for more effective health education interventions.

Method

This study is a quantitative research using the Pre-Experimental method, with a One Group Pre-Test and Post-Test Design. This design involves conducting a single measurement before (pre-test) and after (post-test) the treatment. The population of this study consists of all 195 students in class XI of SMK Istiqomah Muhammadiyah 4 Samarinda. The sample size is calculated to be 99 students. However, due to 10 students dropping out during the research, the final sample size is 89 respondents. The data analysis technique used is univariate and bivariate analysis.

Result

1. Univariate Analysis

- a. Frequency Distribution of Adolescent Knowledge About Premarital Sex Before and After Being Given Animated Video at SMK Istiqomah Muhammadiyah 4 Samarinda.

Table 1 Frequency Distribution of Adolescent Knowledge About Premarital Sex

	Knowledge	Intervention		n	%
		Before	After		
No		N	%		
1	Good	4	4.0	99	100.0
2	Enough	30	30.3	0	0
3	Poor	65	65.7	0	0
Total		99	100.0	99	100.0

Based on the results, after being given the animated video, the number of adolescents with good knowledge increased to 99 respondents (100.0%).

- b. Frequency Distribution of Adolescent Attitudes About Premarital Sex Before and After Being Given Animated Video at SMK Istiqomah Muhammadiyah 4 Samarinda.

Table 2 Frequency Distribution of About Premarital Sex

No	Attitudes category	Before		After	
		N	%	n	%
1	Positif	58	58.6	99	100.0
2	Negatif	41	41.4	0	0
	Total	99	100.0	99	100.0

Based on the results, after being given the animated video, the number of adolescents with positive attitudes increased to 99 respondents (100.0%).

2. Bivariate Analysis

Table 3 Analysis of the Effect of Animated Video Media on the Level of Knowledge of Adolescents About Premarital Sex

No	Knowledge	Before		After		P Value
		N	%	n	%	
1	Good	4	4.0	99	100.0	<0,001
2	Enough	30	30.3	0	0	
3	Poor	65	65.7	0	0	
	Total	99	100.0	99	100.0	

Based on the Wilcoxon test results, with a sig. (2-tailed) value of <0.001, which is less than 0.05, it can be concluded that H₀ is rejected and H_a is accepted, meaning that there is an effect of giving animated videos on the level of knowledge of adolescents about premarital sex.

Table 4 Analysis of the Effect of Animated Video Media on Adolescent Attitudes About Premarital Sex

No	Attitude category	Before		After		P Value
		n	%	n	%	
1	Positif	58	58.6	99	100.0	<0,001
2	Negatif	41	41.4	0	0	
Total		99	100.0	99	100.0	

Based on the Wilcoxon test results, with a sig. (2-tailed) value of <0.001, which is less than 0.05, it can be concluded that H₀ is rejected and H_a is accepted, meaning that there is an effect of giving animated videos on adolescent attitudes about premarital sex.

Knowledge About Premarital Sex

Based on the research results in Table 1, this study shows that the knowledge of respondents after being given health education using animated video media about Premarital Sex increased, with 99 respondents (100.0%) having good knowledge. Health education through animated video media has an impact on increasing respondents' knowledge. This is evident from the difference in knowledge scores between the pretest and posttest results.

Premarital sex is a sexual activity that is carried out before a valid marriage according to religious or legal norms. This behavior usually occurs due to curiosity, biological drive, and environmental influence. According to Nurfadilah (2021), premarital sex is a form of risky sexual behavior that often occurs among adolescents due to lack of self-control and weak knowledge about reproductive health. Research by Pratama et al. (2021) shows that animated videos are effective in increasing adolescents' understanding of topics that are often considered taboo or difficult to discuss, such as premarital sex. Animated videos allow for the delivery of material in a way that is not intimidating, making adolescents feel more comfortable learning about the topic. Good knowledge is proven to reduce the likelihood of adolescents engaging in premarital sex. Research by Widyaningsih et al. (2022) found that a high level of knowledge is correlated with negative attitudes towards premarital sex behavior, making it a protective factor for adolescents. The researcher argues that the increase in adolescents' knowledge after the intervention shows that education with media that is relevant to the times is proven to be effective. Animated video media provides a simple, interesting, and easy-to-understand explanation, making it easier for adolescents to absorb information that was previously considered taboo or difficult to explain using conventional methods.

Attitudes About Premarital Sex

Based on the research results in Table 2, this study shows that the attitudes of respondents after being given health education using animated video media about Premarital Sex became more positive, with 67 respondents (33.5%) having a positive attitude. Health education through animated video media has a positive impact on respondents. This is evident from the difference in attitude scores between the pretest and posttest results. The factor that influences attitudes is educational institutions. In Tiffany's research (2023), educational institutions and religious institutions influence attitude formation, as they lay the foundation for moral understanding and concepts in individuals. Educational institutions will also make adolescents better understand how to respond to premarital sex behavior from an early age.

The Effect of Animated Videos on Adolescent Knowledge

Based on the research results in Table 1, this study shows that the knowledge of respondents after being given health education using animated video media about Premarital Sex increased, with 99 respondents (100.0%) having good knowledge. Health education through animated video media has an impact on increasing respondents' knowledge. This is evident from the difference in knowledge scores between the pretest and posttest results. By using animated videos, material about premarital sex can be delivered in a format that is more interesting and easy to understand. Animated videos combine visual and auditory elements, making it easier for adolescents to absorb information.

The Effect of Animated Videos on Adolescent Attitudes

Based on the research results in Table 2, this study shows that the attitudes of respondents after being given health education using animated video media about Premarital Sex became more positive, with 67 respondents (33.5%) having a positive attitude. Health education through animated video media has a positive impact on respondents. This is evident from the difference in attitude scores between the pretest and posttest results. Each respondent experienced an increase in attitude score, although the magnitude of the increase varied among individuals. There were 25 respondents who still had negative attitudes after being given the animated video, due to differences in comprehension and ability to understand information among individuals. The researcher believes that the media of animated videos has a positive influence on increasing the level of knowledge of adolescents about Premarital Sex. This is evident from the increase in the number of respondents who fall into the category of good knowledge and attitudes after being given the intervention. Audiovisual media such as animated videos can present information in a more interesting, visual, and easy-to-understand way, making it more effective in attracting adolescents' attention and helping them understand material that may have been considered difficult or less interesting if only delivered conventionally. By utilizing digital technology that is easily accessible, animated videos can be an excellent alternative in sex education, providing a solution to overcome limitations in conventional learning methods and helping to create a more engaging and enjoyable learning experience for adolescents.

Conclusion

The level of knowledge among teenagers before being shown an animated video about premarital sex showed that 65 respondents (65.7%) had poor knowledge. The attitudes of teenagers before being shown an animated video about premarital sex showed that 70 respondents (70.71%) had negative attitudes. The level of knowledge among teenagers after being shown an animated video about premarital sex showed that 99 respondents (100.0%) had good knowledge. The attitudes of teenagers after being shown an animated video about premarital sex showed that 67 respondents (51.53%) had positive attitudes. There is an effect on the increase in respondents' knowledge after receiving health education using animated video media on the level of teenagers' knowledge about premarital sex at SMK Istiqomah Muhammadiyah 4 Samarinda, using the Wilcoxon statistical test with a p-value for the knowledge value of <0.000 . There is an effect on the increase in respondents' attitudes after receiving health education using animated video media on the level of teenagers' knowledge about premarital sex at SMK Istiqomah Muhammadiyah 4 Samarinda, using the Wilcoxon statistical test with a p-value for the knowledge value of <0.000 .

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