

<mark>Jur</mark>nal Ilmiah Ilmu Kebidanan & Kandungan

Article

EFFECT OF MATERNAL FETAL ATTACHMENT HEALTH EDUCATION WITH VIDEO ON ACHIEVEMENT OF MOTHER'S ROLE

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SUBMISSION TRACK

Recieved: March 28, 2017 Final Revision: May 03, 2017 Available Online: May 15, 2017

KEYWORDS

Maternal Fetal Attachment, Achievment of Mother's Role, Audiovisual

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ABSTRACT

Achieving the role of the mother can begin from the beginning of pregnancy until 6 months postpartum. Unpreparedness to achieve the role of motherhood will affect anxiety during pregnancy and after childbirth, violence, child abuse and neglect of care. The purpose of this study was to determine the effect of maternal health education in fetal attachment with audiovisual media on the achievement of the role of mothers in the Sleman Public Health Center. This study uses a quasiexperimental method with the design of the treatment group and the control group. The sample in this study were pregnant women who came to have a pregnancy check up at the Sleman Public Health Center and were divided into two groups, namely the intervention group and the control group where each group numbered 23 respondents. The analysis in this study uses the Wilcoxon Signed Rank Test and Mann-Whitney. The results showed that the use of audiovisual media is better than conventional methods because it has a value of an average difference after the provision of higher health education.

I. INTRODUCTION

The creation of the role of the mother is a process in which women can carry out their role as mothers, the integration of their motherhood until they find a new role and gain identitv confidence in their new (Mercer, 2010). Achieving the role of the mother can begin from the beginning until 6 months postpartum (Vreeswiik. 2012). Bonding and relationships attachment that will eventually play a role for mothers (Dave, Johnson, & Ingram, 2008).

Unpreparedness to achieve the role will be questioned during

after childbirth. pregnancy and struggle, child abuse and neglect of care (Tudiver, 1982). The number of crises in children in Indonesia in 2015 4,309 amounted to cases and increased in 2016 amounted to 4,620 cases. The highest types of problems experienced by children in sexual violence are 35%, physical violence 28%, psychological violence 23%, neglect 7%, trafficking 2%, and exploitation 1% (Indonesian child protection commission, 2016).

Research conducted by Burningham (2016) shows that anxiety during pregnancy, poor relationships with partners. late relationships performed with the fetus, received childhood parenting in influences the achievement of the mother's role. Unlike women who have prepared themselves since pregnancy, so that the attachment of the mother and fetus formed during pregnancy will affect the development of the fetal brain and the development of the autonomic nervous system. This process is also called maternalfetal attachment (MFA).

MFA aims to help the closeness between the fetus with the prospective mother so that a woman can provide for the needs of the fetus during pregnancy and after childbirth (Bowlby, 1982; Cooper, Hoffman & Marvin, 2013). Improving the MFA process can be through the support provided to pregnant women. The support in question is information support, various information is provided during pregnancy, one of which through audiovisual is electronic media.

Audiovisual provides а large contribution to changes in behavior. This method stimulates hearing and vision so that the results obtained are far more maximal (Kholid, 2014). According to Culp (2015), audiovisual improve media can patient understanding through the accuracy of the material provided and according to Kaur et al (2016) audiovisual media reduce patient anxiety can and increase patient satisfaction because audiovisual can provide information that is more interesting and not borina. Based on the above background, researchers are interested in researching the influence of maternal-fetal health education (MFA) with audiovisual media on the achievement of the role of mothers in the Sleman Public Health Center.

II. METHODS

This study uses a quasi-experimental non-equivalent control group design. The population in this study were all pregnant women who did antenatal care at the Sleman Public Health Center. The this studv 23 sample in were respondents in the intervention group (the group that received MFA health education through audiovisual media) and 23 respondents in the control group (the group that received MFA health education through conventional methods). The instrument for evaluating maternal role achievement was based on the theory developed of Mercer (2011). Data processing using Wilcoxon Signed Rank Test and Mann-Whitney.

III. RESULT

1. Achieving the mother's role Table 1. The average value of achieving the role of mothers before and after being given MFA health education

Achieving	Befor	е	After		
mother's	Mean±	Min-	Mean± SD	Min-	
role	SD	Max		Max	
Intervention	8,00±1,62	6-11	9,70±1,02	8-11	
Control	8,43±1,50	5-11	10.09±0,85	8-11	

Based on table 1. It can be seen that in the intervention group before getting MFA health education through video obtained mean \pm SD of 8.00 \pm 1.62 and after being given MFA health education through video obtained mean \pm SD value of 9.70 \pm 1, 02.

2. Effect of MFA health education with audiovisual media on the achievement of the role of mothers before and after the treatment group.

Table 2. Effects of MFA health education with audiovisual media on achieving the role of mothers before and after treatment

Pretest (Mean ± SD)	Posttest (Mean ± SD)	MD	p- value
0.80±0.401	0.96±0.206	0.16	
0.35±0.487	0.73±0.456	0.38	
0.80±0.401	0.89±0.315	0.09	
0.65±0.482	0.85±0.363	0.2	0.000
0.67±0.474	0.80±0.401	0.13	
0.91±0.285	0.98±0.147	0.07	
8.00±1.624	9.70±1.020	1.7	
	(Mean ± SD) 0.80±0.401 0.35±0.487 0.80±0.401 0.65±0.482 0.67±0.474 0.91±0.285 8.00±1.624	(Mean ± SD) (Mean ± SD) 0.80±0.401 0.96±0.206 0.35±0.487 0.73±0.456 0.80±0.401 0.89±0.315 0.65±0.482 0.85±0.363 0.67±0.474 0.80±0.401 0.91±0.285 0.98±0.147 8.00±1.624 9.70±1.020	(Mean ± SD) (Mean ± SD) 0.80±0.401 0.96±0.206 0.16 0.35±0.487 0.73±0.456 0.38 0.80±0.401 0.89±0.315 0.09 0.65±0.482 0.85±0.363 0.2 0.67±0.474 0.80±0.401 0.13 0.91±0.285 0.98±0.147 0.07

Based on table 2. It can be seen that there is an increase in the average value of 1.7 and based on statistical analysis obtained a value of p =0,000 which means the provision of videos about MFA can affect the achievement of the role of the mother.

3. Effects of MFA health education with conventional methods on achieving the role of mothers before and after in the control group

Table 3. Effects of MFA health education with conventional methods on achieving the role of mothers before and after

Aspect	Pretest Posttest		MD	p-
	(Mean ±	(Mean ±		value
	SD)	SD)		
Emotional	0.91±0.285	0.96±0.206	0.05	
Financials	0.57±0.507	0.78±0.422	0.21	
Physical	0.80±0.401	0.91±0.285	0.11	
Social	0.70±0.465	0.93±0.250	0.23	0.000
Knowledge	0.65±0.482	0.91±0.285	0.26	
Relationship	0.87±0.341	0.93±0.250	0.06	
Total	8.43±1.502	10.09±0.848	1.66	

Based on table 3. It can be seen that there is an increase in the average value of 1.66 and based on statistical analysis obtained a value of p = 0.000 which means that health education about MFA with conventional methods affects the achievement of the role of mothers.

4. The difference in the mean value in the intervention group who received health education with audiovisual and the control group who received health education with conventional methods

Table 4. The difference in mean
values in the intervention group and
control group

control group				
Aspect	Pretest	Posttest	p-	
	(Mean ±	(Mean ±	value	
	SD)	SD)		
Emotional	0.96±0.206	0.96±0.206		
Financials	0.73±0.456	0.78±0.422		
Physical	0.89±0.315	0.91±0.285		
Social	0.85±0.363	0.93±0.250	0.181	
Knowledge	0.80±0.401	0.91±0.285		
Relationship	0.98±0.147	0.93±0.250		
Total	9.70±1.020	10.09±0.848		

Based on table 4. It can be seen that the average achievement of the role of mothers in the intervention group is 9.70 ± 1.020 and in the control group is 10.09 ± 0.848 with a value of p = 0.181 which means there is no difference between the use of audiovisual media and conventional methods of achieving the role of the mother

IV. DISCUSSION

 Effect of MFA health education with audiovisual media on achieving the role of mothers

Based on table 2. It can be seen that there is an increase in the average value of 1.7 and based on statistical analysis obtained a value of p = 0,000. based on this health education with audiovisual media in achieving the role of mothers can improve the skills and abilities of mothers in caring for children (Doss, 2010).

The effect of audiovisuals on health education is very significant. That is because the provision of health education utilizes all senses. This is in line with the study of Achsin (1986) where approximately 90% of a person's learning outcomes are obtained through the senses of view and only about 5% is obtained from the senses of hearing and 5% again by other senses. Rangasangan through audiovisual will produce good things in remembering, recognizing, recalling and connecting data and concepts.

Audiovisual method is an effective method to provide real experience because in audiovisual attracts the mind through the senses of hearing and vision (Rasul, Bukhsh & Batool, 2011). The use of color and moving images accompanied by sound will be more interesting and the information obtained will be easier to remember. This means that audiovisual has a role in changing one's behavior. According to Campbell (2008).audiovisual has the advantage of using the sense of sight and hearing to receive information.

2. Effects of MFA health education with conventional methods on achieving the role of mothers

Based on table 3. It can be seen that there is an increase in the average value of 1.66 and based on statistical analysis the value of p = 0.000 is obtained. Based on the findings in this study, the conventional method given directly to respondents significantly can increase the achievement of the mother's role. The conventional method has the advantage of allowing respondents directly to ask health workers about material that is not yet understood. According to Stetson & Davis (1999), conventional methods focus more on individual knowledge, attitudes, and beliefs. Mental processes are emphasized on thinking, reasoning, hypothesizing or expecting.

The provision of health education is usually carried out by health workers. This method is very effective because between health workers and patients can dialogue with each other and respond to each other at the same time by utilizing relevant media or teaching aids (Jennings et al., 2010). Bowlby (1988) in Watkins & (2015) Texas arques that the relationship between health workers and patients is complementary. The nature of health workers is characterized as care and patients as clients who have an attachment when the attachment system during pregnancy is delivered there will be a stronger and wiser closeness between health workers and patients.

 Differences in health education using audiovisual media and conventional methods

Based on statistical tests in table 4 shows that the use of audiovisual media and conventional methods there is no difference with the value of p = 0.181 > 0.05. This is because both received health groups have education even though they use different media. Another similar study was conducted by Parvin (2010) which showed results that both audiovisual and conventional methods did not show superiority with the acquisition of results in education through audiovisual by 50% and conventional 50%. The use of this method does not have a significant influence on improving student achievement and motivation.

The results of the study are also supported by Viswasom & Jobby's research (2017) with statistical results p = 0.47 < 0.05, which means there is no influence of the use of audiovisual methods on anatomy learning. The use of appropriate methods and time time bv the respondent's will significantly increase knowledge in understanding of the achievement of the mother's role and can have an impact on increasing knowledge from the unknowing to knowing (Jo et al., 2003). The health education process

will be more effective if supported by the presence of media or props and can use the media to keep abreast of world developments (Otaiby, 2013).

V. CONCLUSION

Based on the research that has been done, it can be concluded that health education about MFA with audiovisual media and conventional methods influences the achievement of the mother's role. The use of audiovisual media is better than conventional

REFERENCES

- Achsin A. (1986). Media Pendidikan dalam kegiatan belajar mengajar. Ujung pandang: penerbit IKIP Ujung pandang
- Burningham, K.L., 2016. The Relationship Between the Poor Parenting in Childhood and Current Adult Symptoms of Anxiety and Depression: Attachment as a Mediator.
- Bowlby, J., (1982): Attachment and loss: retrospect and prospect. American Journal of Orthopsychiatry 52, 664-678
- Campbell, R. (2008). The processing of audio-visual speech: empirical and neural bases, (September 2007), 1001–1010. Retrieved from: https://doi.org/10.1098/rstb.2007.2155
- Culp, M. (2015). Health literacy: implications and strategies. Radiologic Technology, 87(1), 106-108.
- Cooper, G., Hoffman K., & Marvin, B. (2013). The Circle of Security Intervention Enhancing Attachment in Early Parent-Child Relationships. doi: 10.1080/1461673021013163.
- Deave, T., Johnson, D., & Ingram, J. (2008). BMC Pregnancy and Childbirth early parenthood, 11, 1–11. https://doi.org/10.1186/1471-2393-8-30
- Doss, B. D. (2010). NIH Public Access, 96(3), 601–619. https://doi.org/10.1037/a0013969.ThKaur, H., Singh, G., Sharda, G., Aggarwal, S., & Singh, A. (2016). Evolving with modern technology: Impact of incorporating audiovisual aids in preanesthetic checkup clinics on patient education and anxiety. Anesthesia: Essays & Researches, 10(3), 502-507.Kholid, Ahmad. (2014). Promosi Kesehatan. Jakarta: RajaGrafindo
- Jennings, L., Yebadokpo, A. S., Affo, J., & Agbogbe, M. (2010). Antenatal counseling in maternal and newborn care: use of job aids to improve health worker performance and maternal understanding in Benin, 1–13.
- Jo, H, et al. (2003). Structural relationship of Factor affecting health promotion behavior of Korea urban residen. Health Promotion International, 3 (18) 229-236
- Mercer, R. T. (2010). NURS 324 Nursing Theory Newsletter Fall 2011 NURS 324 Nursing Theory Newsletter Fall 2011.
- Parvin, R. (2010). Is Audio Visual Method Better Than Traditional For Medical Is Audio Visual Method Better Than Traditional For Medical Students. A Survey Report, (January). Retrieved from: https://doi.org/10.3329/bjmed.v21i2.13612
- Stetson, V., & Davis, R. (1999). Health Education in Primary Health Care Projects: A Critical Review of Various Approaches by, (August).
- Tudiver, F. & Tudiver, J., 1982. Recent evidence suggests that pregnancy is a normal developmental period requiring psychological adaptation by the new parents. The family physician is in a key position to observe.
- Viswasom, A. A., & Jobby, A. (2017). Effectiveness of Video Demonstration over Conventional Methods in Teaching Osteology in Anatomy, 9–11. Retrieved from: https://doi.org/10.7860/JCDR/2017/24029.9429
- Vreeswijk, C.M.J.M., (2012): Expectant Parent: Study protocol of a longitudinal study concerning prenatal (risk) factors and postnatal infant development, parenting and parent-infant relationship. BMC. Pregnancy and Childbirth 12-46.

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