

The Influence Of Balanced Nutrition Extension Through Poster Media On The Improvement Of Knowledge And Change Attitude Of Basic Schools In Madrasah Ibtida'iah Negeri Medan Senembah District Tanjung Mo

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The Influence Of Balanced Nutrition Extension Through Poster Media On The Improvement Of Knowledge And Change Attitude Of Basic Schools In Madrasah Ibtida'iah Negeri Medan Senembah District Tanjung Morawa

Oslida Martony
Politeknik Kesehatan Medan
Email: oslida64@gmail.com

Abstract

The purpose of this study was to determine the Effect of Balanced Nutrition Counseling through Poster Media on Knowledge Enhancement and Attitude Change of School Children in MIN Medan Senembah Kec. Tanjung Morawa. This research is an experimental study using design before and after the intervention using an external comparison group. The population was 346 students in grades 3,4 and 5—the research sample of 78 student samples. Data collected are before and after knowledge, before and after attitude. The method uses a questionnaire. Data collection is done by questionnaire form. Data analysis uses Paired Sample T-Test and Independent T-Test tests. The results obtained by the common knowledge before counseling in the experimental group are 61.87, and in the comparison group is 49.45. The average post-counseling knowledge in the experimental group was 76.17, and in the comparison group was 61.12. The average attitude before in the experimental group was 68.31 and in the comparison group 62.97. The average attitude after the experimental group was 73.85, and the comparison group was 68.95. There were significant differences in knowledge and attitudes before and after counseling ($p\text{-value} = 0.000 < 0.05$). There were no differences in knowledge and attitudes between the experimental and comparison groups ($p\text{-value} = 0.490 > 0.05$).

Keywords: *Balanced Nutrition Counseling, Poster Media, Knowledge, Attitude, Elementary School Children*

A. INTRODUCTION

Nutrition problems in Indonesia are increasingly complex. Healthy living patterns, including a balanced diet with nutrition, are among the main factors in the complexity of nutrition problems in Indonesia. Therefore, the community needs to get clear and adequate information about a balanced diet with nutrition, including eating a variety of foods (eating vegetables and fruit), clean living behavior, carrying out physical activities, and routinely weighing as a component of a balanced lifestyle (Mulyani et al. 2016).

Nutrition programs in groups of school children have a broad impact that affects not only the health, nutrition, and education aspects of the present but also directly

affects the quality of human resources in the future. School children are strategic targets in improving community nutrition (Mulyani et al. 2016).

Primary school-age children (6-12 years old) are the age group who are still experiencing growth and development and need adequate nutritional needs and are suitable to support their growth and development. Still, at this time, children have poor eating habits so that many need for substances nutrition that cannot be fulfilled optimally. Inappropriate nutrient intake in childhood can lead to various nutritional problems and impact their learning achievement (Setiawan Yahmin and Dharmawan A.C., 2012).

Based on basic health research results in 2013, nationally, the prevalence of thinness (according to BMI / U) in children aged 5-12 years was 11.2 percent, consisting of 4.0 percent very thin and 7.2 percent thin. The problem of fat in children aged 5-12 years is still high at 18.8 percent, 2 of which consist of fat 10.8 percent and very fat (obese) 8.8 percent.

According to the Basic Health Research in 2010, it was found that the population consuming food below 70% of the Recommended Nutrition Adequacy Rate (RDA) was 40.6%. This situation is often found in school-age children, 41.2%. The 2013 Riskesdas data in North Sumatra figures about proper handwashing behavior that is 32.9%, for the proportion of physical activity classified as less active in general that is 23.5%, the proportion of vegetable and fruit-eating behavior is 93.5% but for the proportion food consumption patterns are at risk of getting the highest proportion of 62.5%.

Meanwhile, according to the 2007 North Sumatra Riskesdas data, in Deli Serdang Regency, the percentage of the ten-year-old population who lacked vegetables and fruits was 95.2%. This condition is in line with the findings of the Individual Food Consumption Survey (SKMI) in the 2014 Total Diet Study (SDT) that the population consumption of vegetables and fruit and all its preparations is still low (Balitbangkes, 2014).

Nutritional problems in elementary school children usually begin with a lack of energy and protein intake below the minimum requirements (Riskesdas, 2010). Also, the prevalence of eating fruits and vegetables is still relatively high; physical activity is still relatively low (Riskesdas, 2007).

On the other hand, most of the time this child is used a lot of activities outside the home, which is around 3-6 hours at school, a few hours to play, exercise and so on so that children need more energy. More time spent with friends can affect a child's eating schedule, even his diet. Not to mention because of the wrong eating pattern in the previous age, which is still carried away at this age; for example, children prefer

snacks, less fiber food, like eating and drinking sweet and so on. As a result, children do not get a balanced and safe nutritious diet, impacting low body weight (BB) due to malnutrition and often sick. It can also occur due to excess energy intake, always eating, and drinking energy-dense so that children experience obesity problems (obesity) (Mulyani et al. 2014).

According to WHO in Supariasa (2014), nutrition education is a planned effort to improve nutritional status through behavioral changes related to food and nutrition. Behavior changes by first being given a reinforcement in the form of information about something that can change behavior in advance. Prevention is done early to reduce the prevalence rate and to create better human resources. One of the usual nutrition improvement programs is through counseling.

Nutrition counseling in schools has several advantages, including that children have an open mind compared to adults, and the knowledge received can be the basis for their eating habits. Improving the nutrition of elementary school children, in particular, is a strategic step because its impact is directly related to the achievement of quality human resources (MOH RI, 2005).

Nutrition counseling given to elementary school-age children is sought to be provided through attractive media so that the delivery of material can be received more quickly. One of the media that will be used is printed media; one of them is the poster. The superiority of printed media images through balanced nutrition posters will clarify a problem by looking at clear images and following the subject matter. Image media can also lead to diverse student creativity in expressing. Students will be more explicit about a subject or material that will be delivered (Februhartanty, 2004). This is in line with Sairaoka's (2010) research that there is a significant effect of better nutrition knowledge on respondents given nutrition counseling with the media compared to respondents who were not given nutrition education without using media.

Posters are a visual combination of robust designs, colors, and messages to capture the attention of passers-by but long enough to instill passers-by's attention but long enough to instill meaningful ideas in their memories (Nana Sudjana and Ahmad Rivai, 2010: 51). According to Rudi Susilana and Cepi Riana (2009: 14), the poster is a visual combination that is clear, striking, and interesting, attracting the attention of passers-by. Based on the opinion above, researchers can conclude that poster media, in general, is a written message either in the form of pictures or writing intended to attract many people's attention.

B. METHOD

4 This type of research is a Research Experiment with the design of the design. Before and After the Intervention using an External Comparison Group (Notoatmodjo, 2010). The form of this design is as follows:

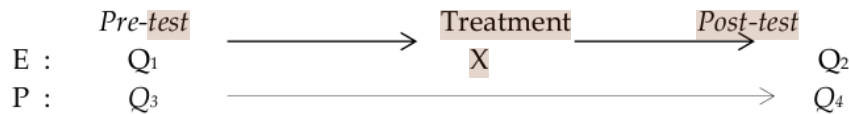


Figure 1. Form of Design Before and After intervention using an External Comparative Group.

Information :

Q₁ : Pre-test, i.e., measurement of knowledge and attitudes before treatment

X : The intervention given is the Balanced Nutrition Poster Media and provides balanced nutrition counseling as an introduction to the message information in the Poster content.

Q₂ : Post-test, i.e., measurement of knowledge and attitude after treatment

Q₃ : Pre comparison group test

Q₄ : Post-test comparison group

8 The sample in this study amounted to 78 students in grades 3.4 and 5 of the Madrasah Ibtida'iyah Negeri (MIN) school in Tanjung Morawa Subdistrict, Medan Senembah Village, Tanjung Morawa Subdistrict in the 2017-2018 academic year, totaling 346 people. Data was collected using a questionnaire that was filled in by the respondent himself.

Based on the type of data collected in this study, including 15 primary and secondary data. Primary data is collected directly by the researcher consisting of Sample identity data, Knowledge data, and attitudes before and after poster presentation. Secondary data, namely data obtained based on information collected by the school, which includes research and student data.

C. RESULT AND DISCUSSION

a. Sample Overview

The sample in this study was 78 students in Medan Senembah Madrasah Ibtida'iyah Negeri Tanjung Morawa Subdistrict. In this study, sample characteristics were grouped by age and gender.

1. Ages

The length of life span from birth to now, as measured by years, is a parameter to determine someone's age. The distribution of samples in the age group in this study ranges from age 7 years to 13 years).

Table 1. Distribution of samples by age

Ages	N	%
7-9	24	30.8
10-11	49	62.8
11-13	5	6.4
Total	78	100.0

From the table, it can be seen that most samples are the age group 10-11 years as many as 49 people (62.8%), the age group 7-9 years as many as 24 people (30.8%), and the age group 11-13 years 5 people (6.4%).

2. Gender

Gender is the difference between women and men biologically since someone was born (Cahya, 2012). The sample distribution is based on the male gender as many as 37 people (47.4%) and female gender as many as 41 people (52.6%), as presented in the following table.

Table 2 Distribution of samples by gender

Gender	N	%
Man	37	47.4
Woman	41	52.6
Total	78	100.0

Based on the sex characteristics in the table. It can be seen from 78 samples obtained that the results of women are more dominating, namely by 41 people (52.6%) and in the sample with male sex by 37 people (47.4%).

b. Result

1. Differences in Knowledge Score Before and After Intervention between the Experiment Group and the Comparison Group.

Table 3. Experiment Group Knowledge

Group of Experiment		Mean	N	Std. Deviation
	Pre-Test	62.87	78	15.898
	Post-Test	76.17	78	14.259

* $p=0,000$

Table 3 shows the experimental group shows the results between changes in knowledge before and after almost no difference, namely 15,898 for the knowledge score before and 14,259 for the knowledge score. With a difference of 1,639. Statistical test results obtained $p\text{-value} = 0,000 > 0.05$ mean that at alpha 5%, there is a significant difference in the average percentage score of knowledge about balanced nutrition.

Table 4. Comparative Group Knowledge

Group of Comparative		Mean	N	Std. Deviation
	Pre-Test	49.45	78	15.456
	Post-Test	61.12	78	14.752

* $p=0,000$

Table 4 shows the comparison group shows the results between changes in knowledge before and after almost no difference, that is, 15,456 for the knowledge score before and 14.752 for the knowledge score after. The results above show that the average percentage of respondents' knowledge with the knowledge score before is higher than the knowledge score after a difference of 704. The statistical test results obtained $p\text{-value} = 0,000 > 0.05$ mean that at alpha 5%, there is a significant difference in the average percentage score of knowledge about balanced nutrition.

2. Perbedaan Skor Sikap Sebelum dan Sesudah Intervensi antara Kelompok Eksperimen dan Kelompok Pembeding.

Table 5. Experiment Group Attitude

Group of Experiment		Mean	N	Std. Deviation
	Pre-Test	68.31	78	6.914
	Post-Test	73.85	78	6.758

* $p=0,000$

Table 5 shows that in the experimental group, the results between changes in attitude before and after were almost no different, namely 6,914 for attitude scores before and 6,758 for attitude scores after. The results above show that the average percentage of respondents' attitudes with attitude scores before was higher than the attitude scores after a difference of 156. statistical test results obtained $p\text{-value} = 0,000 > 0,05$ mean that at alpha 5%, there is a significant difference in the average percent score attitude about balanced nutrition.

Table 6. Comparative Group Attitude

Group of Comparative		Mean	N	Std. Deviation
	Pre-Test	62.97	78	7.148
	Post-Test	68.95	78	6.287

* $p=0,000$

Table 6 shows the comparison group shows the results between changes in attitude before and after almost different, namely 7.148 for the attitude score before and 6.287 for the attitude score after. The difference of 861. statistical test results obtained $p\text{-value} = 0.000 > 0.05$ means that at alpha 5%, there is a significant difference in the average percent score attitudes about balanced nutrition.

3. The difference in Mean Change in Knowledge of Balanced Nutrition in the Two Groups

Table 7. Average Change in Knowledge About Nutrition

Variable	Group	N	Mean	Std. Deviation	p-value
Knowledge	Experiment	78	13.46	12.423	0.688
	Control	78	12.09	12.335	

Table 7 explains that the average change in knowledge in the experimental group is higher than that of the control group, with a difference of 137. The statistical test results obtained $p = 0.688 < 0.05$ mean that at 5% alpha, there is no significant difference in the average knowledge about balanced nutrition.

4. Differences in Average Changes in Attitudes About Balanced Nutrition in the Two Groups.

Table 8. Changes in Attitudes About Nutrition

¹² Variable	Group	N	Mean	Std. Deviation	p-value
Attitude	Experiment	78	5.59	5.936	0.445
	Control	78	5.97	4.862	

Table 8 explains that the average attitude change ³ in the experimental group is higher than the control group, with a difference of 1.074. Statistical test results obtained ² p-value = 0.445 < 0.05 means that at alpha 5%, there is no significant difference in the average attitude about balanced nutrition.

c. The Effect of Balanced Nutrition Counseling through the Media Poster on Increasing the Knowledge of School Children

The results of the statistical tests ¹ in the experimental group were 69.52%. In the comparison group, there were 55.28% with a p-value of 0.000. There was an influence of counseling about balanced nutrition on knowledge between the comparison group not given balanced nutrition counseling with the experimental group being counseled. The information provided in counseling can increase students' knowledge, the more often they get information about nutrition, the better the knowledge of schoolchildren about balanced nutrition.

Balanced nutrition education is essential to increase knowledge about nutrition for school children. Efforts to improve nutrition knowledge through counseling ⁶ are the right steps to take and are supported by parties who care about school children. This is in line with Susanti's research, (2015) states that there was a significant increase in knowledge after being given a health education intervention using print media by 81.46%. This is because the print media can display images and languages that are easily understood by the target.

According to Hadi et al. (2012), there is an increase in cognitive, affective, and psychomotor after being given health education using comic media. Wahyuni, Sarma, and Pulungan's (2007) research showed a significant relationship between counseling given through mass media and behavior ($p = 0.009$).

Increased knowledge itself is influenced by several factors, namely, education, personal or other experiences, mass media, and the environment (Notoadmojo, 2012). The influence of education on increasing knowledge is in line with research conducted by Hastuti (2015) about learning which is also included in the concept of education

wherefrom the results of his research he found there are significant differences before and after the implementation of balanced nutrition learning in obese students which can be seen from the t -value <0.05 .

There have been several studies that have been conducted relating to the use of posters, including suggesting that counseling with lectures and poster methods can improve the knowledge, attitudes, and actions of postpartum mothers in exclusive breastfeeding in Sait Nihuta Dolok Sanggul District, Humbang Hasundutan District (Ratna Astuti, 2013).

d. Effects of Balanced Nutrition Counseling through Poster Media on Changes in Attitudes of School Children

The results of the statistical test in the experimental group were 71.34%. In the comparison group, there were 65.96% with a p -value of 0.000 that there was an influence of counseling about balanced nutrition on changes in attitudes between the comparison group who were not given balanced nutrition counseling with the experimental group given counseling.

The results of data processing show an increase in attitudes of school children before, and after being given, the intervention has increased positively.

Nutrition communication with poster media also showed a significant difference in the average increase in attitude scores between the experimental and control groups. Therefore, posters made it easier for students to receive messages and find out the contents of balanced nutrition messages illustrated in the poster.

According to Mubarak (2007), attitudes are not carried from birth but are formed and studied throughout the person's development concerning his object. This study's results are in line with research conducted by Ambarwati et al. (2013) about the effect of leaflet media on exclusive breastfeeding for up to 3 months, which shows the results of differences in behavior between the experimental and the comparison group.

D. CONCLUSION

1. The average change of knowledge before the intervention in the experimental group was higher than in the comparison group with a difference of 1,639.
2. The average change in attitude after the intervention in the experimental group was higher than in the comparison group with a difference of 861.
3. There is no significant difference in changes in knowledge about balanced nutrition through poster media between the control group and the comparison group.

4. There is **no significant difference** in attitudes about balanced nutrition through poster media between the control and comparison groups.

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