



Therapeutic group therapy improved self-efficacy of school age children

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KEYWORDS

Therapeutic group therapy;
Self-efficacy;
School children;
Disaster;
Earth quake and Tsunami

Abstract

Objective: The survival of children against disaster can be seen from their confidence in their ability (self-efficacy). Self-efficacy can help children to determine their ability against disaster as preparedness. The proper intervention to increase self-efficacy as a protective factor is a therapeutic group therapy. The aim of this research is to measure the increase of self-efficacy of school age children against earthquake and Tsunami through therapeutic group therapy.

Method: This research used quasi-experimental design with pre-post-tests with control group. The sample involved in this study is 69 children, where 35 of them are in the experimental group while the rest 34 children are in the control group consisting of school children at the IV and V graders of elementary school.

Results: The result of the research showed that the self-efficacy of school children is improved significantly after being treated with therapeutic group therapy (p value $< 0,05$), those who were not treated with therapeutic group therapy have no significant improvement (p value $> 0,05$).

Conclusions: This research is recommended to be conducted on school age children to improve their self-efficacy against disaster through health education.

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Introduction

Disaster is an event caused by either natural or human factors that is threatening, harmful, and destructive to human life and leads to loss of life, environmental damage, loss of material, and psychological impact¹. It is explained that natural disaster, primarily earthquake and tsunami, has been the most common type of disaster over the past 50 years (83%). The impact of such disasters includes death, injury, and homelessness. Guha-Sapir et al² state that the Asian continent has seen the highest occurrence of natural disasters (44.4%). Indonesia is the Asian country with the

highest number of disasters over the past decade, one of which was the tsunami in 2004 that killed 250,000 people. Disaster preparedness is aimed primarily at groups vulnerable to disaster risks, most of whom are school-age children³.

Having a high level of confidence in self-ability (self-efficacy) with regard to facing disaster can improve children's readiness for the impact caused by earthquake and tsunami disasters. Self-efficacy is a protective factor in individuals, and it also becomes the target area of nursing intervention for disasters⁴.

Therapeutic group therapy (TGT) is an intervention that can improve the protective factor of self-efficacy. TGT is a

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group therapy conducted through giving stimulation on developmental according age. This therapy can be implemented by sharing experiences, helping each other in solving problems, and teaching methods of stress-control⁵.

Method

The design of this study was quasi-experimental pre-and post-tests with a control group. Purposive sampling technique with some inclusion criteria was used to obtain 69 children from two elementary schools. Thirty-five children from School A were involved in the intervention group and 34 children from School B in the control group. To measure self-efficacy in school-age children, the Self-Efficacy Questionnaire for Children (SEQ-C) was used, and was modified and tested for its validity. The result showed that the questionnaire was valid (r score > r table). The reliability test shows a score of 0.824 for cognitive competence, 0.896 for social competence, and 0.755 for emotional competence. Afterward, the intervention group underwent TGT seven times at ±60-90 min for each session. The data collection was conducted after school, and the procedure and process were explained to potential respondents in detail. This study was conducted after the respondents filled out the informed consent. This study received ethic approval from the faculty of nursing, Universitas Indonesia.

Results

Characteristics of Clients

The results of this study show the value of central tendency on the variables of age, sex, and self-efficacy that can be seen in Table 1. The oldest of the respondents is 10 years

Table 1 The distribution and analysis of equalities in age, gender, and self-efficacy of school age children (n = 69)

Group	Age				Mean	P value	No.
	9	10	11	12			
Intervention	1	15	13	6	10,69	0,618	35
Control	2	15	12	5	10,59		34
Total	3	30	25	11			69

Self-efficacy	Mean	P value	MD (95%CI)
Intervention	56.94	0.209	-1.181;5.302
Control	54.88		

Gender	Mean	P value	MD (95%CI)
Intervention	62.19	0.734	0.558 (-2.709;3.826)
Control	61.64		

95%CI, 95% confidence interval; MD, mean difference.

old, and most of the respondents are male, with a self-efficacy score in the intervention group reaching to 56.94. After the analysis of statistical tests was conducted, the resulting score of p value > $\alpha = 0.05$. The result concludes that there is no significant difference in the variables of age, gender, and self-efficacy of school-age children in the intervention group and the control group.

Changes in self-efficacy with therapeutic group therapy

Improvement in self-efficacy of school-age children before and after participating in therapeutic group therapy can be seen in Table 2. Based on Table 2, it can be seen that the improvement in self-efficacy of school-age children before and after therapy is as much as 8.17 points. Further analysis obtains the score of p value: $0.001 < \alpha = 0.05$. This means there is a significant improvement in the self-efficacy of school-age children in the intervention group after being treated with the therapy. The control group, which is not treated with the therapy, shows no significant improvement, with the result of statistical test of p value: $0,102 > \alpha = 0.05$.

The differences in improvement of self-efficacy

We can see the differences in self-efficacy improvement in this study in Table 3. Based on Table 3, it can be known that the average score of self-efficacy of school-age children on the intervention group is 65.11, while the control group is 58.65, with a difference of 6.467 points. Further analysis finds a significant difference between the intervention

Table 2 The analysis of self-efficacy difference before and after therapeutic group therapy implementation

Group	Self-efficacy	Mean	P value	MD (95%CI)
Intervention	Before	56.94	0.001*	-8.171 (9.963-6.380)
	After	65.11		
Control	Before	54.88	0.102	-0.324 (-0.715-0.067)
	After	55.21		

95%CI, 95% confidence interval; MD, mean difference.
*Significance on $\alpha < 0.05$.

Table 3 The analysis of self-efficacy difference after therapeutic group therapy implementation on the intervention and control groups

Group	Mean	P value*	MD (95%CI)
Intervention	65.11	0.001	6.467 (3.615-9.320)
Control	58.65		

95%CI, 95% confidence interval; MD, mean difference.
*Significant on $\alpha < 0.05$.

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