

THESIS

**THE EFFECT OF EARTHQUAKE SIMULATION ANIMATION
VIDEOS ON THE KNOWLEDGE AND SKILLS OF EARTHQUAKE
DISASTER PREPAREDNESS IN THE 5TH-GRADE ELEMENTARY
SCHOOL KLATAK BANYUWANGI 2023**



By :

NAME : HILLARY ELSAFITRA

NIM : 201902017

BACHELOR OF NURSING STUDY PROGRAM

BANYUWANGI INSTITUTE OF HEALTH SCIENCES

BANYUWANGI

2023

STATEMENT OF ORIGINALITY

This thesis is the result of my own scientific writing, and I do not engage in plagiarism in writing a thesis entitled:

The Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills of Earthquake Disaster Preparedness in the 5th Grade Elementary School Klatak Banyuwangi 2023

If one day it is proven that I have committed plagiarism, I will accept the sanctions that have been determined.

Thus I make this statement letter truthfully.

Banyuwangi, August 2023
Statement Maker

HILLARY ELSAFITRA
201902017

APPROVAL SHEET

Thesis entitled:

The Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills
of Earthquake Disaster Preparedness in 5th Grade Elementary School Klatak
Banyuwangi 2023

HILLARY ELSAFITRA

201902017

Thesis has been approved

On August, 2023

By:

The First Advisor



Ns. Masroni, S.Kep.,M.S. (in Nursing)

NIDN: 709108605

The Second Advisor



Ns. Andrik Hermanto, S.Kep.,M.Kep

NIDN: 703029501

The Head of Bachelor of Nursing Study Program



Ns. Sholihin, S.Kep.,M.Kep

NIDN: 723118302

RATIFICATION OF THE EXAMINER

Thesis entitled:

The Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills
of Earthquake Disaster Preparedness in 5th Grade Elementary School Klatak
Banyuwangi 2023

Submitted by:

HILLARY ELSAFITRA

201902017

Has been accepted by the examiners team of the Bachelor of Nursing Study Program
at Banyuwangi Institute of Health Sciences

On August, 2023

EXAMINERS TEAM

The 1st Examiner : Fajri Andi R., S.Kep., Ns., M. Kep



The 2nd Examiner : Atik Pramesti W, S.Kep., Ns., M. Kep



The 3rd Examiner : Masroni, S.Kep., Ns., M.S (in Nursing)



The Chairman of

Banyuwangi Institute of Health Sciences



DR. H. SOEKARDJO

NUPN: 9907159603

PREFACE

In the name of Allah, the beneficent and merciful. All praise is merely to the Mightiest Allah SWT, the lord of the worlds, for the gracious mercy and tremendous blessing that enabled me to accomplish this thesis. This thesis entitled "The Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills of Earthquake Disaster Preparedness in the 5th Grade Elementary School Klatak Banyuwangi 2023" is submitted to fulfill one of the requirements in accomplishing the Bachelor of Nursing Degree at STIKes Banyuwangi.

Many persons have generously suggested improving this thesis. First of all, the writer would like to express her sincere gratitude and respect to the following:

1. DR. H. Soekardjo, as a chairman of STIKes Banyuwangi, has provided the opportunity and facilities me to attend and complete the bachelor of nursing study education at STIKes Banyuwangi.
2. The first advisor, Ns. Masroni, S. Kep., M.S (in Nursing) and the second advisor, Ns. Andrik Hermanto, S. Kep., M.Kep, who have contributed and given their valuable evaluations, comments, and suggestions during the accomplishing of this thesis.
3. The school principal and the board of teachers of the elementary school of Klatak Banyuwangi who have provided time and space for the research, as well as the 5th-grade students who are willing to be respondents.
4. My parents, Mr. Bowo Aris Windartono, Mrs. Alvira Titisari, my younger brother Bagas Putra Alvaris, and my grandmother, who have given love and

affection and provided prayer and support, both moral and material so that this thesis can be resolved.

5. Yehezkiel Febria N, who always accompanies, provides prayers, and supports the writer.
6. Reborn friends (Jelang Senja, Fuad Hasyim, Rafli Tegar, Talita Anti, Clarisa Artiga) as a place for discussion and exchanging opinions since freshmen.
7. Fellow students of the STIKes Banyuwangi from the Bachelor of Nursing Study Program AMAN of 2019 and all those who have assisted in this study that cannot be mentioned by the researcher one by one.

May the mightiest Allah SWT return the favor to all who have provided support, assistance, and opportunities to complete this thesis. The writer is fully aware that the writing of this thesis is still far from perfect, so the writer begs for criticism and constructive suggestions. The writer hopes this thesis can be useful generally for readers and the world of nursing.

Banyuwangi, August 2023

Writer

HILLARY ELSAFITRA

ABSTRACT

THE EFFECT OF EARTHQUAKE SIMULATION ANIMATION VIDEOS ON THE KNOWLEDGE AND SKILLS OF EARTHQUAKE DISASTER PREPAREDNESS IN THE 5th GRADE ELEMENTARY SCHOOL KLATAK BANYUWANGI 2023

By:

Hillary Elsafitra

Background: Disaster preparedness involves preparing a counter-disaster plan, warning of the disaster, and maintaining resources needed during and after a disaster. The media that can be used by using animated videos can increase knowledge and skills more easily and interestingly for elementary school students. This study aimed to investigate the effect of earthquake simulation animation videos on the knowledge and skills of earthquake disaster preparedness in the 5th-grade Elementary School Klatak Banyuwangi.

Method: This study used a pre-experimental research plan with a one-group pre-test post-test research design of 56 respondents with a total sampling technique. Then, statistical analysis was done using the Wilcoxon Signed Rank Test from SPSS 16.

Result: Before being given an animated video, they had a knowledge level of scores, most of them as much as 41% in the category of unprepared, mostly 62.5% competent enough for skills. After being given an animated video, knowledge increased to 64.3% with ready criteria, and skills increased to 82.1% with very competent criteria. With a significance value of $p=0.000<0.05$, there was a significant Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills of Earthquake Disaster Preparedness in 5th grade elementary School Klatak Banyuwangi 2023.

Conclusion: Applying knowledge and skills in earthquake disaster preparedness can be done early, starting from elementary school, one of which is by using animated video media, which is expected to be more easily understood, interesting, and can be applied in everyday life.

Keywords: *Animation video, Disaster preparedness, Earthquake, Knowledge and skills*

TABLE OF CONTENT

Title Page and Degree Requirements	i
Statement of Originality	ii
Approval Sheet	iii
Ratification of the Examiner	iv
Preface	v
Abstract	vii
Table of Contents	viii
List of Figures	ix
List of Tables	xiii
List of Abbreviations	xiv
List of Appendixes	xv
CHAPTER 1.....	1
INTRODUCTION.....	1
1.1 Background.....	1
1.2 Formulation of the Problem.....	8
1.3 The Objective of the Study.....	8
1.3.1 General Purpose.....	8
1.3.2 Specific Aim	8
1.4 Expected Result.....	9
1.4.1 Theoretical	9
1.4.2 Practical	9
2. For institutions.....	9
CHAPTER 2.....	10
2.1 School Age Concept.....	10
2.1.1 Definition of School Age.....	10
2.1.2 Characteristics of School Age.....	10
2.1.3 Developmental Stages of School-Age	12
2.2 Disaster Preparedness.....	14

2.2.1 Definition of Disaster Preparedness	14
2.2.2 Factors Affecting Disaster Preparedness	14
2.2.3 Efforts to Increase Disaster Preparedness.....	16
2.3 Knowledge and Skills Concepts.....	17
2.3.1 Definition of Knowledge	17
2.3.2 Knowledge Level.....	17
2.3.3 Definitions of Skills.....	19
2.4 The Concept of an Earthquake Disaster Simulation Video Animation.....	19
2.4.1 Animated Video of Earthquake Simulation.....	19
2.5 The Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills of Disaster Preparedness	23
2.6 Synthesize Table.....	25
CHAPTER 3.....	31
3.1 Conceptual Framework	31
3.2 Hypothesis	33
CHAPTER 4.....	34
4.1 Research Design	34
4.2 Frame Work.....	35
4.3 Population, Samples, and Sampling Technique	36
4.3.1 Population	36
4.3.2 Samples.....	36
4.3.3 Technique Sampling	37
4.4 Identification Variable.....	37
1. Independent Variable.....	37
2. Dependent Variable	38
4.5 Operational Definition.....	39
4.6 Data Collection and Data Analysis.....	40
4.6.1 Research Instrument	40
4.6.2 Research Location and Time	42
4.6.3 Data Collection	42
4.6.4 Data Analysis.....	43

The Effect of Earthquake Simulation Animation Videos on the Knowledge and Skills of Disaster Preparedness.....	46
4.6.5 Statistic Test.....	47
4.7 Research Ethics	49
4.8 Research Limitations	51
CHAPTER 5.....	52
5.1 Result of the Study	52
5.1.1 Demographic Data of Research Sites	52
5.2 Univariate Analysis	54
5.2.1 General Characteristics of Respondent.....	54
5.3 Bivariate Analysis	55
5.4 The Effect of Earthquake Simulation Animation Video on the Knowledge and Skills of Earthquake Disaster Preparedness in 5 th Grade Elementary School Klatak Banyuwangi 2023.....	58
5.5 Normality test	59
5.6 Results of the Wilcoxon Signed Ranks Test Calculation Analysis Using the Application SPSS 16	59
5.7 Discussion.....	60
5.7.1 Knowledge and Skills Before Being Given an Earthquake Simulation Animation Video.....	60
5.7.2 Knowledge and Skills After Being Given an Earthquake Simulation Animation Video.....	62
5.7.3 The effect of earthquake simulation animation videos on the knowledge and skills of earthquake disaster preparedness in 5 th -grade elementary school Klatak Banyuwangi 2023	64
CHAPTER 6.....	67
6.1 Conclusion.....	67
6.2 Suggestion	68
REFERENCES	74

LIST OF FIGURES

Figure 3.1 Conceptual Framework	38
Figure 4.1 Framework	42

LIST OF TABLES

Table 2.1 Synthesize Table	26
Table 4.1 Research Design Pre and post-test.....	35
Table 4.2 Operational Definition	40
Table 4.3 Statistical Analysis	47
Table 5.1 Distribution of respondents based on the age.....	56
Table 5.2 Distribution of respondents based on gender.....	57
Table 5.3 Distribution of respondents based on the tribe.....	57
Table 5.4 Distribution of respondents based on the materials.....	57
Table 5.5 Distribution of respondents based on the result of knowledge before showing an earthquake disaster preparedness simulation animation video in 5 th grade elementary school Klatak Banyuwangi 2023.....	58
Table 5.6 Distribution of respondents based on the result of knowledge after showing an earthquake disaster preparedness simulation animation video in 5 th grade elementary school Klatak Banyuwangi 2023.....	59
Table 5.7 Distribution of respondents based on the result of skills before showing an earthquake disaster preparedness simulation animation video in 5 th grade elementary school Klatak Banyuwangi 2023.....	59

Table 5.8 Distribution of respondents based on the result of skills after showing an earthquake disaster preparedness simulation animation video in 5 th grade elementary school Klatak Banyuwangi 2023.....	60
Table 5.9 Distribution of the effect of earthquake simulation animation video on the knowledge of earthquake disaster preparedness in 5 th grade elementary school Klatak Banyuwangi 2023.....	60
Table 5.10 Distribution of the effect of earthquake simulation animation video on the skills of earthquake disaster preparedness in 5 th grade elementary school Klatak Banyuwangi 2023.....	61

LIST OF ABBREVIATIONS

BPBD	: Badan Penanggulangan Bencana Daerah
BNPB	: Badan Nasional Penanggulangan Bencana
IJEDICT	: International Journal of Education and Development using Information and Communication Technology
IPS	: Ilmu Pengetahuan Sosial
LIPI	: Lembaga Ilmu Pengetahuan Indonesia
PAUD	: Pendidikan Anak Usia Dini
SIGEBU	: Siaga Gempa Bumi
TK	: Taman Kanak-Kanak
UNISDR	: United Nations International Strategy for Disaster Reduction
UNESCO	: United Nations Educational, Scientific and Cultural Organization
WHO	: World Health Organization

LIST OF APPENDIXES

Appendix 1 Sheet of Ethical Approval

Appendix 2 Matrix of Schedule

Appendix 3 Letter of Approval for Submission of Title

Appendix 4 Application for Cover Letter to the Researcher Site

Appendix 5 Letter of Preliminary Data Request

Appendix 6 Initial Data Collection Permit Recommendation Letter

Appendix 7 Initial Data Collection Permit Recommendation Letter

Appendix 8 Research Permit

Appendix 9 Counseling Script Denomination

Appendix 10 Letter of Agreement for Becoming a Respondent

Appendix 11 Approval Sheet to Become Respondent

Appendix 12 Questionnaire of Disaster Preparedness

Appendix 13 Observation Sheet of Skill

Appendix 14 Consultation Sheet and Revision Sheet

Appendix 15 Documentation

Appendix 16 Tabulation of Respondents' Data

Appendix 17 Result of Univariate and Bivariate Analysis