



List of Contents

Statement of Legalization	ii
Statement of Originality	iii
Acknowledgments	iv
List of Contents	vii
List of Tables	ix
List of Figures	x
List of Appendixes.....	xi
Abstract	xii
Intisari	xiii
CHAPTER 1 INTRODUCTION	1
1.1. Research Background.....	1
1.2. Research Problem Formulation.....	4
1.3. Research Question	4
1.4. Research Objective	4
1.5. Research Motivation	5
1.6. Advantages of Research.....	6
1.7. Research Contribution	6
1.8. Paper Proceedings.....	7
CHAPTER 2 THEORETICAL FRAMEWORK AND LITERATURE REVIEW	8
2.1 Conceptual Framework.....	8
2.2 Literature Review	11
2.2.1 Natural disaster exposure and mental health	11
2.2.2 Volcano eruption and mental health problems	13
2.2.3 The 2010 Merapi volcano: history and human impacts	15
2.2.4 Mental health measurement.....	17
CHAPTER 3 DATA AND METHODOLOGY	19
3.1. Data and Features	19
3.2. Variable Definition.....	20
3.2.1. Treatment variable	20
3.2.2. Outcome variables.....	20
3.2.3. Control variables.....	21



3.2.4.	Mechanism variables	23
3.3.	Empirical Strategy	24
3.3.1.	Endogeneity	24
3.3.2.	Propensity score matching	24
3.3.3.	Main model specification	28
3.3.4.	Robustness checks	32
CHAPTER 4 RESULTS AND DISCUSSION		36
4.1	Statistics Descriptive	36
4.2	Results	42
4.2.1	Matching effect analysis	42
4.2.2	Main estimation	46
4.2.3	Robustness check results	48
4.2.4	Mechanism analysis	50
4.2.5	Heterogeneity effects analysis	51
CHAPTER 5 CONCLUSION AND RECOMMENDATIONS		56
5.1	Conclusion	56
5.2	Limitations of the study and recommendations	58
REFERENCES		59
APPENDIXES		66