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# Early Adults Coping Skills and Post Traumatic Stress Disorder After Eruption of Semeru Mountain: a Cross-sectional Study

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ABSTRACT

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Post Traumatic Stress Disorder (PTSD) is a psychiatric disorder that can occur in people who have experienced or witnessed a traumatic event. This study aims to analyze the relationship between coping skills and posttraumatic stress disorder after the eruption of Mount Semeru in early adults in Sumber Wuluh Village, Lumajang. Using a cross sectional study method, the subjects of this research were early adults (26-35 years old) with a sample of 138 respondents. Sampling uses Cluster Sampling. The results characteristics respondents in study were early adults aged 26-35 years, the gender group was mostly female, and the education level was mostly elementary and middle school. The coping skills in this study used adaptive coping (65.2%). Post traumatic stress disorder in this study, famale experienced more PTSD (28.3%), and male did not experience PTSD (25.4%). The relationship between coping skills and post-traumatic stress disorder was obtained with a P-value of 0.000, less than a <0.05. It can be concluded that there is a relationship between the two variables, and has a correlation value of -.622. A negative correlation means that the lower the coping skills score, the higher the post-traumatic stress disorder score. It can be concluded that coping skills and post-traumatic stress disorder have a significant relationship with a negative direction. Keywords: Coping Skills, Disaster, Early Adult, Post Traumatic Stress

Disorder

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#### **1. INTRODUCTION**

Post Traumatic Stress Disorder (PTSD) is a psychiatric disorder that can occur in people who have experienced or witnessed a traumatic event (American Psychiatric Association, 2022). The problem is considering PTSD as a condition of persistent mental and emotional stress, which occurs after a traumatic experience (Riaz et al., 2023). Indonesia is surrounded by volcanoes throughout the Asia-Pacific called the Ring

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of Fire or Pacific Circum. In this condition, Indonesia often experiences earthquakes that cause shaking, causing a lot of damage to the earth's surface and loss of life (Badan Nasional Penanggulangan Bencana, 2023).

When a disaster occurs, coping strategies are needed to minimize the impact on mental health (Suyanto & Hartono, 2019). In essence, humans need other people to be able to solve problems in their lives. Coping or self-defense, shows various mental and behavioral efforts to control, reduce, tolerate or minimize stressful situations (Yunere et al., 2018). Coping skills are influenced by several factors, including: physical health, positive beliefs or perspectives, problem-solving skills, social support, and level of education. Individuals with low levels of education tend to be less exposed to information about strategies when a disaster occurs. This causes a lack of skill in using coping strategies (Irzalinda & Sofia, 2019; Erlin & Sari, 2020; Bachri et al., 2022).

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Worry and panic about various conditions can lead to negative coping. So you are very vulnerable to experiencing PTSD (Dow et al., 2023; Erlin & Sari, 2020; Adhikari & Bhagawati, 2019). PTSD is characterized by symptoms of reexperiencing a traumatic event, avoidance of thoughts and memories of the event, and persistent perception of increased threat (World Health Organization, 2022a). The and reactions impacts can occur immediately or can appear after some time (Morganstein, 2023; Durand & Barlow, 2006 dalam Endiyono & Hidayah, 2018). This requires further analysis to see the relationship between coping skills and post-traumatic stress disorder after the eruption of Semeru Mountain.

### 2. METHODS

This type of research uses a quantitative approach with a cross-sectional method. With a population of

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1,660 in Sumber Wuluh Village, Lumajang, the sample size was obtained using the application, obtaining 138 G\*Power respondents. The sampling technique uses cluster sampling. The data collection tool used a questionnaire that had been tested for validity and reliability, a coping skills questionnaire using the Brief Cope Inventory obtained an r count (0.868), and post-traumatic stress disorder а questionnaire using DSM-V PCL-5 obtained an r count (0.525-0.832). Data analysis consists of univariate and bivariate, bivariate analysis uses Pearson Product Moment correlation. This research has met the ethical requirements with letter number 353/UN25.1.14/KEPK/2024.

### 3. RESULTS

#### Characteristics of respondents

Table	1.	Characteristics	Respondents
	(n=]	138)	_

Variable	Frequency	Percentage (%)
Gender		
Male	66	47,8
Female	72	52,2
Educational		
Elementary	57	41,3
school		
Junior High	40	29,0
School		
Senior High	25	18,0
School		
Diploma	11	8,0
Bachelor	5	3,6

Table I shows that the characteristics of respondents in this study are divided into two, namely: gender and education. Gender characteristics: Most of the respondents were female (52.2%) and male (47.8%). And in the education group, the majority of respondents had elementary school education (41.3%), and junior high school education (29.0%).

### **Coping Skills**

Table 2. Frequency Distribution of CopingSkills After the Mount SemeruEruption (n=138)

Variable	Frequency	Percentage (%)
Adaptive	90	65,2
Maladaptive	48	34,8

Table 2 shows that coping skills are divided into two categories of adaptive and maladaptive coping. Among the 138 respondents, the majority had adaptive coping as many as 90 respondents with a percentage (65.2%), and maladaptive coping as many as 48 respondents with a percentage (34.8%).

### Post Traumatic Stress Disorder

Table 3. Frequency Distribution of PostTraumatic Stress Disorder AfterSemeru Eruption (n=138)

Variable	Frequency	Percentage (%)	
Not	68	49,3	
experiencing			
PTSD			
Experiencing	70	50,7	
PTSD			

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Table 3 shows that PTSD is divided into two categories, not experiencing PTSD and experiencing PTSD. Among the 138 respondents, 70 respondents experienced more PTSD symptoms with a percentage (50.7%), and 68 respondents did not experience PTSD symptoms with a percentage (49.3%).

## The Relationship between Coping Skills and Post Traumatic Stress Disorder

Table 4. The Relationship between Coping
Skills and Post Traumatic Stress
Disorder.

D1001 <b>40</b> 1.		
Variable	P-value	R
Coping Skills		
Post Traumatic	0,000	-,622
Stress Disorder		

Table 4 shows that the variables coping skills and post-traumatic stress disorder, after analysis using the Pearson Product Moment correlation test, obtained a P-value of 0.000, less than 0.05. So that the alternative hypothesis (Ha) is accepted, it can be concluded that there is a relationship between coping skills and post-traumatic stress disorder. Having a correlation value of -.622, means that the level of relationship is strong and the direction of the correlation is negative. Negative correlation means that the lower the coping skills score, the higher the posttraumatic stress disorder score, and vice versa.

### 4. DISCUSSION

#### Characteristics Respondents

Gender characteristics in this study were mostly female respondents (52.2%). According to Adhikari & Bhagawati, (2019) famale are at higher risk of experiencing PTSD due to their stronger perception of threat, loss of control, and lack of social support resources.

The educational characteristics in this study mostly had elementary and middle school education levels. A higher level of education can increase an individual's ability to understand trauma, thereby increasing self-confidence in recovering physical and mental health and thereby preventing stress disorders (Adhikari & Bhagawati, 2019). Low education can affect a person when a disaster occurs, because it is caused by a lack of exposure to information from various media (Erlin & Sari, 2020).

### Coping Skills

The results of coping skills in this study were that most respondents used adaptive coping with a percentage of (65.2%). This is in accordance with the research conducted Tamara et al., (2023) After the Covid-19 pandemic, the majority used adaptive coping (79.5%). In the research carried out Yunere et al., (2018) after the fire disaster, respondents who had

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adaptive coping with a percentage (48.0%).

Coping skills are an individual's way of resolving a problem within themselves through change, as well as an individual's response to situations that threaten them (Larazus & Folkman, 1984). Adaptive coping is a person who can deal with problems by talking to others about the problem, seeking information, believing that everything will return to normal, and learning from past experiences (Potter et al., 2017). Psychological factors, which are aspects related to psychology or mental health. This aspect is in the form of individual intelligence abilities, past experiences, self-concept and motivation, psychological self-defense (Stuart, 2016).

Based on these supporting facts and reviews, researchers assume that the impact of the Semeru eruption resulted in different coping responses. Every individual is able to apply adaptive coping which can enable them to control stressors well. The level of education influences coping decisions. So, the better an individual's coping skills, the risk of mental health problems can be reduced.

### Post Traumatic Stress Disorder

The results of post-traumatic stress disorder in this study were that some respondents experienced more PTSD with a percentage (50.7%). This is in accordance with the research conducted Wu et al., (2022) the impact of tornadoes on rural residents, of all survey respondents who experienced PTSD, was a percentage (13.6%). In the research carried out Acharya et al., (2023) After the disaster in Nepal in 2015, a percentage of adults who survived the earthquake experienced PTSD (18.9%).

Post-traumatic stress disorder (PTSD) is a mental disorder that may occur in individuals who have past experiences that cause trauma, such as natural disasters, serious accidents, terrorist acts, war/combat, rape or being threatened with death, sexual violence and serious injury (American Psychiatric Association, 2022). As a result of exposure to traumatic experiences, PTSD can cause symptoms including: experiencing repeated symptoms, avoidance, mood disturbances, and alertness and reactivity (American Psychiatric Association, 2022; National Institute of Mental Health, 2023). Several factors can increase the risk of PTSD, social support, age, and frequency of exposure to traumatic events (Rohmah et al., 2023; Rachma & Febrianti, 2021; Xu et al., 2022; Rahayu et al., 2021).

Based on these supporting facts and reviews, researchers assume that individuals who experience traumatic

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exposure can develop PTSD symptoms. The psychological response to a traumatic event is likely to increase PTSD, due to several factors such as: loss of property, death of a family member, loss of job, experiencing physical disability. Thus, the impact of this exposure is a high risk of experiencing PTSD in the long term.

### The Relationship between Coping Skills and Post Traumatic Stress Disorder

The results of the relationship between coping skills and post-traumatic stress disorder showed a p-value of 0.000, less than 0.05. It can be concluded that there is a relationship between the two variables, and has a correlation value of -.622. A negative correlation means that the lower the coping skills score, the higher the post-traumatic stress disorder score, and vice versa, the higher the coping skills score, the lower the post-traumatic stress disorder score. This is in line with the research conducted Machado et al., (2020) showed that there was a relationship between coping skills and PTSD, there was a negative relationship on the indicators of problem focused coping, emotion focused coping, and a positive relationship on the indicators of dysfunctional coping. Then, on to research Adhikari Baral & Bhagawati, (2019) stated that there was a relationship between coping skills and post-disaster PTSD with a p-value ≤ 0.05, this research did not explain the direction of the relationship, positive or negative.

Based on the Roy Adaptation Model (RAM) theory, coping skills automatically occur when there is a stimulus that interferes with the human adaptation response (Alligood, 2014). Coping or selfdefense, shows various mental and behavioral efforts to control, reduce, tolerate or minimize stressful situations (Yunere et al., 2018). Coping skills are influenced by several factors, including: physical health, positive beliefs or perspectives, problem-solving skills, social support, and level of education. Individuals with low levels of education tend to be less exposed to information about strategies when a disaster occurs. This causes a lack of skill in using coping strategies (Irzalinda & Sofia, 2019; Erlin & Sari, 2020; Bachri et al., 2022). Worry and panic about various conditions can lead to negative coping. So you are very vulnerable to experiencing PTSD (Dow et al., 2023; Erlin & Sari, 2020; Adhikari & Bhagawati, 2019). PTSD can cause symptoms including: experiencing repetitive symptoms, avoidance, mood disturbances, and alertness and reactivity (American Psychiatric Association, 2022; National Institute of Mental Health, 2023).

Based on these supporting facts and reviews, researchers assume that coping is

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one of the factors that can influence mental health, such as post-traumatic stress. Loss of work, closed school facilities, lack of health facilities, and lack of family/social support due to traumatic exposure will trigger coping responses and increase the risk of trauma.

#### 5. CONCLUSIONS

The characteristics of the respondents in this study were mostly female, and more of them had elementary and junior high school education. Univariate analysis of coping skills in this study, most respondents used adaptive coping. Post traumatic stress disorder in this study, some respondents experienced more PTSD. Bivariate analysis found a relationship between coping skills and post-traumatic stress disorder with a Pvalue of 0.000 less than  $\alpha < 0.05$ . The level of strong relationship is proven by the correlation value -.622. A negative correlation means that the lower the coping skills score, the higher the posttraumatic stress disorder score, and vice versa.

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#### AUTHOR CONTRIBUTIONS

Substantial contribution to conception, data collections, and analysis: Ahmad Zainuri, Baskoro Setioputro and Rismawan Adi Yunanto. Writing Manuscript and revisions: Ahmad Zainuri.

#### CONFLICT OF INTEREST

The authors declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

#### DATA AVAILABILITY STATEMENT

The data are not publicly available due to privacy or ethical restrictions.

#### REFERENCES

- Acharya P. R., Chalise, P., Khadka, S., Chaulagain, B., Maharjan, B., Pandey, J., Nepal, J., & Pandey, C. (2023). Post-traumatic Stress Disorder And Its Associated Factors Among Survivors of 2015 Earthquake in Nepal. BMC Psychiatry, 23(1), 1–12. https://doi.org/10.1186/s12888-023-04836-3
- Adhikari, B. I., & Bhagawati, K. C. (2019). Post traumatic stress disorder and coping strategies among adult survivors of earthquake, Nepal. BMC Psychiatry, 19(1), 1–8.

Volume 3 Issue 2, August 2024, pp 164-175 https://ebsina.or.id/journals/index.php/jkmi EISSN 2502-2717

https://doi.org/10.1186/s12888-019-2090-y

- Agustina, Y. D., Wicaksi, D., Susilowati, & Wulandari, R. A. (2021). Deteksi Dini PTSD pada Korban Gunung Semeru di Lumajang. Jurnal Pengabdian Kepada Masyarakat, 1(2). http://ejournal.unibo.ac.id/index.ph p/Dedication/article/view/281
- Alligood, R. (2014). Nursing Theory Utilization & Application. In International Journal of Aeroacoustics (5th ed., Vol. 11, Issue 2). Elsevier. https://doi.org/10.1260/1475-472X.11.2.177
- American Psychiatric Association. (2022). What is Post-traumatic Stress Disorder (PTSD)? American Psychiatric Association. https://www.psychiatry.org/patient s-families/ptsd/what-is-ptsd
- Aryuni, M. (2023). Post-Traumatic Stress Disorder Pada Penyintas Bencana Ganda. 10(1), 113–131. https://doi.org/10.22487/ejk.v10i1.753
- Bachri, S., Sumarmi, S., Irawan, L. Y., Aldianto, Y. E., Utomo, K. S. B., & Wardhani, A. K. (2022). Coping

Mechanism in the Face of Landslide Hazard in East Java Indonesia. Geojournal of Tourism and Geosites, 40(1), 144–149. https://doi.org/10.30892/GTG.40117-813

- Badan Nasional Penanggulangan Bencana. (2021). Sejarah Panjang Letusan Gunung Semeru. Badan Nasional Penanggulangan Bencana, 1–6. https://bnpb.go.id/berita/sejarahpanjang-letusan-gunung-semeru-
- Badan Nasional Penanggulangan Bencana. (2023). RBI (RISIKO BENCANA INDONESIA) "Memahami Risiko Sistemik di Indonesia" (Pertama). Pusat Data, Informasi, dan Komunikasi Kebencanaan BNPB. https://inarisk.bnpb.go.id/BUKU-RBI-2022/mobile/index.html#p=10
- Dow, B. L., Kenardy, J. A., Le Brocque, R.
  M., & Long, D. A. (2023). Cognitive Predictors of Posttraumatic Stress in Children 6 Months after Paediatric Intensive Care Unit Admission. Trauma Care, 3(2), 82–92. https://doi.org/10.3390/traumacare30 20009
- Endiyono, & Hidayah, N. I. (2018). Gambaran Post Traumatic Stress

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> Disorder Korban Bencana Tanah Longsor di Dusun Jemblung Kabupaten Banjarnegara Endiyono I , Novi Isnaini Hidayah 1 l. Jurnal Ilmiah Ilmu-Ilmu Kesehatan, 16(3), 127–131.

- Erlin, F., & Sari, Y. (2020). Gejala PTSD (Post Traumatic Stress Disorder) Akibat Bencana Banjir Pada Masyarakat Kelurahan Meranti Rumbai Pesisir Pekanbaru. Dinamika Lingkungan Indonesia, 7(1), 17. https://doi.org/10.31258/dli.7.1.p.17-21
- Hendriansyah Tamara, R., Firmawati, & Damansyah, H. (2023). Hubungan Mekanisme Koping Dengan Tingkat Stress MasyarakatPasca Pandemi Covid 19 di Dusun IV Desa Tuladenggi. Journal of Educational Innovation and Public Health, 1(2), 114–125.
- Irzalinda, V., & Sofia, A. (2019). Pengaruh Koping Strategi terhadap Resilience Keluarga Rawan Bencana. Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini, 4(1), 201. https://doi.org/10.31004/obsesi.v4i1.3 12

- Larazus, & Folkman. (1984). Stress, Appraisal, and Coping (2<sup>nd</sup> ed.). Spinger Publishing Company, Inc.
- Machado, A. V., Volchan, E., Figueira, I., Aguiar, C., Xavier, M., Souza, G. G. L., Sobral, A. P., de Oliveira, L., & Mocaiber, I. (2020). Association between habitual use of coping strategies and posttraumatic stress symptoms in a non-clinical sample of college students: А Bayesian PLoS ONE, approach. 15(2). https://doi.org/10.1371/JOURNAL.P ONE.0228661
- Morganstein, J. (2023). Coping After Disaster. American Psychiatric Association. https://www.psychiatry.org/patient s-families/coping-after-disastertrauma
- Muhlasin, A., Rusyid, A., & Dharmawan, K. (2022). Psikoreligi Untuk Pelajar Terdampak Bencana Erupsi Gunung Semeru Tahun 2021 Di Desa Sumberwuluh Lumajang. Jurnal Pengabdian Kepada Masyarakat, 6(1), 229–234.
- National Institute of Mental Health. (2023). Post-Traumatic Stress Disorder. National Institute of

Volume 3 Issue 2, August 2024, pp 164-175 https://ebsina.or.id/journals/index.php/jkmi EISSN 2502-2717

Mental Health. https://www.nimh.nih.gov/health/to pics/post-traumatic-stress-disorderptsd

- Pangaribuan, M., Siregar, K., Widiastuti, H., Silalahi, M., Siringoringo, L., & Purborini, N. (2023). Respon Trauma Pada Pengungsi Gempa Bumi Cianjur Jawz Barat. Jurnal Ilmu Keperawatan Jiwa, 6(1), 554–563. https://journalppnijatengorg/indexp hp/jikj
- Potter, A., Perry, G., Hall, A., & Stockert, P. A. (2017). FUNDAMENTALS OF NURSING (9th ed.). Mosby Elsevier. https://books.google.co.id/books?id= X9HQDwAAQBAJ&printsec=frontc over&hl=id&source=gbs\_ge\_summar y\_r&cad=0#v=onepage&q&f=false
- Rachma, H., & Febrianti, T. (2021). Faktor Determinan Sosial Risiko Post Traumatic Stress Disorder (PTSD) Pasca Kejadian Bencana Tsunami Selat Sunda. Jurnal Kesehatan, 12(2), 280.

https://doi.org/10.26630/jk.v12i2.214 8

Rahayu, S., Sjattar, E. L., & Seniwati, T. (2021). Factors Affecting Secondary Traumatic Stress Disorder among Search and Rescue Team in Makassar. Indonesian Contemporary Nursing Journal (ICON Journal), 5(2), 49–57. https://doi.org/10.20956/icon.v5i2.90 32

- Riaz, B. K., Islam, M. Z., Ahmed, H. U., Akhtar, K., Haque, A., Amin, K. M. B., Mahmood, F., Refat, M. N. H., & Islam, F. (2023). Post-traumatic stress disorders and coping strategies of health professionals during COVID-19 pandemic in Bangladesh: findings of a countrywide crosssectional study. The Lancet Regional Health - Southeast Asia, 11, 100131. https://doi.org/10.1016/j.lansea.2022.1 00131
- Rohmah, U. N., Harahap, S. G., & Yari, Y. (2023). Description of Post Traumatic Stress Disorder, Sleep Disorders, Anxiety, and Symptoms of Depression in Earthquake Victims in Cianjur. Journal of Nursing and Midwifery Sciences, 2(April), 36–45.
- Stuart, & W, G. (2016). PRINSIP DAN PRAKTIK KEPERAWATAN KESEHATAN JIWA (Indonesia). Elsevier.

Volume 3 Issue 2, August 2024, pp 164-175 https://ebsina.or.id/journals/index.php/jkmi EISSN 2502-2717

- Suyanto, & Hartono. (2019). Pengaruh Penggunaan Panduan Tanggap Bencana Terhadap Strategi Koping Keluarga Dalam Menghadapi Kerentanan Bencana Tsunami Di Gunturharjo Desa Kabupaten Wonogiri. Jurnal Terpadu Ilmu Kesehatan, 8(1), 67-74. https://doi.org/10.37341/interest.v8il. 119
- Wahyuningtyas, N., Adi, K. R., Yaniafari, R.
  P., Sa'id, M., & Rizki, M. G. (2022).
  Dukungan Psikososial Bagi
  Penyintas Bencana Pasca Erupsi
  Gunung Semeru. JPM (Jurnal
  Pemberdayaan Masyarakat), 7(2),
  925–933.
  https://doi.org/10.21067/jpm.v7i2.755
  3
- World Health Organization. (2022a). Mental disorders. Word Health Organization.

https://www.who.int/newsroom/fact-sheets/detail/mentaldisorders/?gclid=CjwKCAiA9dGqBh AqEiwAmRpTCxMV2S7nUhnPYkh Xc2QVGikmGisqPQmaF2mQyT--DUFIzCsiwmfBNRoCROoQAvD\_B wE

- World Health Organization. (2022b). Mental health in Emergencies. Word Health Organization, 11–15. https://www.who.int/newsroom/fact-sheets/detail/mentalhealth-in-emergencies
- Wu, T. M., Yang, Q., Huang, Y. J., Zhong, B.
  L., Zhang, J., & Liu, L. Z. (2022).
  Prevalence and correlates of posttraumatic stress disorder and its symptomatology in tornado-affected rural residents. Frontiers in Psychiatry, 13(May).
  https://doi.org/10.3389/fpsyt.2022.94 6450
- Wuryaningsih, E., Kurniyawan, E. H., & Faiza, W. M. (2020). Overview of the Coping Strategy of Farmers in the Flood Disaster Area of Wonoasri Village, Tempurejo District, Jember Regency. Journal of Nursing Science Update (JNSU), 7(2), 187–194. https://doi.org/10.21776/ub.jik.2019.0 07.02.8
- Xu, C., Li, Q., Gao, Y., Huo, H., & Zhang,
   W. (2022). Changes and Influencing
   Factors of Stress Disorder in Patients
   with Mild Traumatic Brain Injury
   Stress Disorder. BioMed Research

Volume 3 Issue 2, August 2024, pp 164-175 https://ebsina.or.id/journals/index.php/jkmi EISSN 2502-2717

International,	2022.
https://doi.org/10.1155/2022	2/9082946

Yunere, F., Sari, Y. P., & Tusadiah, H. (2018). Hubungan Mekanisme Koping Dengan Resiko Terjadinya Depresi Pada Korban Pasca Bencana Kebakaran Toko Di Pasar Atas Kota Bukittinggi Tahun 2018. JURNAL KESEHATAN PERINTIS (Perintis's Health Journal), 5(1), 80–86. https://doi.org/10.33653/jkp.v5i1.99