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Sekolah Tinggi Ilmu Keperawatan PPNI Jawa Barat







#### **Case Study**

#### **Social Factors of Community Disaster Preparedness**

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Abstract

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## **Aims:** Indonesia is prone to disasters because of its geography, geology, water, and population. One way to reduce the risk is for the community to be ready through social factors. The purpose of the study to determine social factors of community

disaster preparedness.

**Methods:** the search strategy used Google Scholar, Science Direct, and DOAJ which were searched from 2018-2023. The keywords used were community, disaster preparedness, social capital, community resilience, and social support. The Critical Appraisals Skills Program was then conducted. There were six articles that met the inclusion criteria.

**Results:** The results of all these articles show that social capital, community resilience and social support have a relationship with disaster preparedness through various research methods. The results also show that social factors are strongly related to disaster management, especially disaster preparedness. The facts also show that there is conformity with the theory that social factor determinants can increase community preparedness in the face of disasters.

**Conclusion:** Based on the results of the literature review, social factors including social capital, community resilience and social support significantly influence community preparedness in the face of disasters.

#### **Keywords:**

Community, community resilience, disaster preparedness, social factor

#### INTRODUCTION

Indonesia is a country located at the confluence of 3 world tectonic plates, namely the Australasian plate, Pacific plate, Eurasian plate. This causes Indonesia to be a country with a high risk of disaster Indonesia has geographical, threats. geological, hydrological and demographic conditions that allow disasters to occur, both due to natural factors, non-natural factors and human factors that cause human casualties, environmental damage, property losses, and psychological impacts (1). World Risk Report noted that Indonesia ranks 36th with a risk index of 10.36 out of 172 countries most prone to natural disasters in the world (2). Based on BNPB data, as of 2019 there have been 29,969 disasters in Indonesia, ranging from landslides, tornadoes, earthquakes, tsunamis, and others.

Although it is difficult to avoid disasters, reducing the impact of disasters is an expectation that must be achieved. An effort to reduce the impact of disasters is to improve disaster mitigation. Disaster mitigation is part of preventive efforts to prevent public health disasters (3). One form of disaster mitigation is to form disaster preparedness. Preparedness is an







action to respond to disasters quickly and appropriately so as not to cause public health disasters in a broader sense (4,5). Preparedness is a series of activities carried out for community preparedness in the face of disaster is very important to prepare an action plan to reduce the impact of problems that occur due to natural disasters including earthquake and tsunami disasters (6). Disaster management in an area is highly dependent on the condition of its people. It is necessary to understand their behavior patterns when facing disasters. The ability and capacity of the community to overcome the problems caused by disasters is very important to note, one of which is social problems in the community. Social aspects have a very important role in any process related to the community, including disaster preparedness.

There are various social factors that influence community preparedness in the face of disasters. These social factors significantly influence disaster mitigation efforts including community preparedness. Social capital factors, community resilience, and social support play an important role in influencing community preparedness in the face of disasters (7–10). The purpose of the study was to determine social factors as determinants in community disaster preparedness.

#### **METHODS**

This study employs a literature review that draws conclusions about the topic of "Social Factors as Determinants in Community Disaster Preparedness" based on the interpretation of existing literature by means of the PICO framework Community, I: Social Capital, Community Resilience, Social Support, Community). D: -Disaster Preparation, P: Preparation for Emergencies. In this study, the search strategy was carried out using data-based and keywords. The data base used is Google Scholar, Science Direct, and DOAJ. The keywords used "Community", "Disaster Preparedness",

"Social Capital", "Community Resilience", "Social Support".

#### **Eligibility Criteria:**

In this study, inclusion criteria were used, namely articles with a range of years 2018-2023, articles in English and Indonesian, providing full text: abstract, introduction, methods, results, discussion. The study search was conducted in the community, the focus was on disaster preparedness. The search for study articles was for articles that used an observational design. Articles that did not match the keywords and outcomes were excluded.

#### **Data Extraction:**

The article search stage starts from the screening stage that matches the inclusion criteria, and articles that do not match the keywords and outcomes are excluded. Once obtained according to the inclusion criteria, an assessment will be carried out using The Critical Appraisals Skills Program (CASP). The literature search in this study was conducted in three stages. In the first stage: the range of years 2018-2023, English and Indonesian articles, providing full text (abstract, introduction, methods, results, discussion); In the second stage: the search for studies conducted in the community; In the third stage: the focus is disaster preparedness. The search for article studies was articles that used an observational design. Creating PICO as follows, P: community, I: social capital, community resilience, and social support. C: community, 0: disaster preparedness. The search strategy was conducted through three data bases, including Google Scholar, Science Direct, and DOAJ. After conducting the search strategy, 9,471 articles were obtained, distributed from Google Scholar as many as 5,682 articles, Science Direct as many as 2,857 articles, and DOAJ as many as 932 articles. Then the first stage of screening was carried out, obtained as many as 8,838 articles, then in the second stage, 103 articles were obtained, and in the final stage, 6 articles were obtained that were in accordance with the keywords, outcomes, and inclusion criteria.







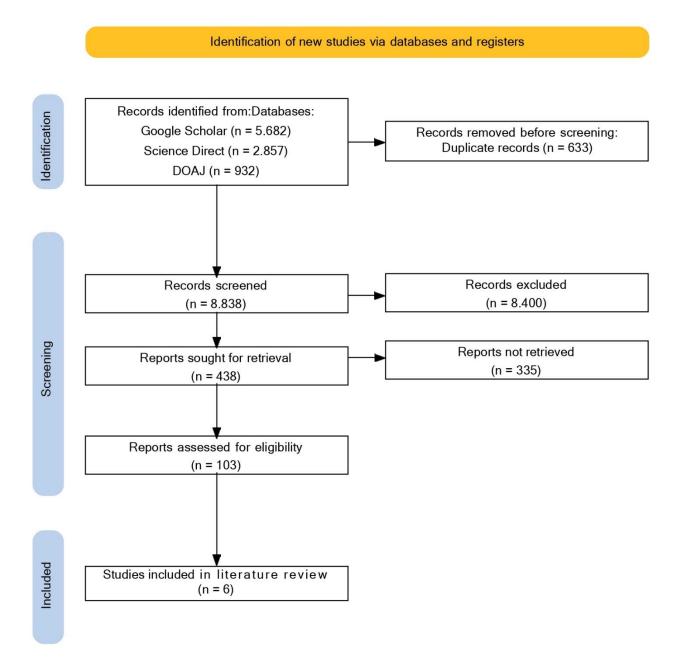
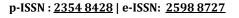


Figure 1 identifications of new studies





### **RESULTS**

**Table 1. Key Findings from Research Articles** 

Researcher	Title	Study Design	Population	Results	Conclusion
Husnul Ramadhan,	Pengaruh Modal	Quantitative	Coastal Area	Based on	There is an influence
M. Fachri Adnan,	Sosial terhadap	approach with	Community with	regression	of social capital on
Zikri Alhadi (11)	Kesiapsiagaan	descriptive	a sample of 110	analysis, there is	disaster
	Bencana di	method	people	an influence of	preparedness in the
	Kawasan Pesisir			social capital on	Air Manis Beach
	Pantai Air Manis			disaster	Coastal Area of
	Kota Padang			preparedness in	Padang City.
				the Air Manis	
				Beach Coastal	
				Area of Padang	
				City with the	
				regression	
				equation Y =	
				(6.525+1.158X).	
				With the	
				contribution of	
				social capital	
				amounting to	
Compaine Cadala	Carial Carribal and	Danasistissa		59.3%.	There is a
Sumaiya Sadeka,	Social Capital and	Descriptive	-	BBased on the	There is a
Mohd Suhaimi	Disaster	method		conceptual	relationship between
Mohamad,	Preparedness:			framework, there	social capital and
Mohammad Imam	Conceptual			is a relationship	disasters.
Hasan Reza, Jamiah	Framework and			between social	
Manap, Md.	Linkage			capital and	
Sujahangir Kabir				disasters. Social	





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Sarkar (12)				capital includes	
				social networks as	
				well as standards	
				of reciprocity and	
				trust, which are	
				critical to	
				accelerating	
				disaster planning	
				and recovery.	
Wiwandari	Operationalizing	Content analysis	-	The findings show	The content analysis
Handayania, Micah	Resilience: A			that there are	revealed that
R. Fisherb, Iwan	,			fourteen	resilience is not a
Rudiartoa, Jawoto				plan/program	term commonly
Sih Setyonoa,				areas in terms of	applied in urban and
Dolores Foley (13)	Two Coastal Cities			hazard exposure	disaster-related
	in Central Java,			reduction,	contexts. Yet it is
	Indonesia			reduction of	,
				vulnerability of	O'
				people and	major issues that
				property,	need attention in
				improved land	Semarang and Tegal.
				and	
				environmental	
				management, and	
				improved	
				preparedness to	
				address flooding	
				in the two	
				selected cities.	
				preparedness to	
				address flooding	



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	T. T.				Г
				in the two	
				selected cities.	
Deasy Dwi Yulianti,	Pengaruh	Correlational with	All residents of	Most respondents	There is an influence
Johan Budhiana,	Resiliensi	cross sectional	Girijaya Village,	have moderate	of community
Iyam Mariam, Dila	Komunitas	approach	Nagrak Sub-	community	resilience on
Nurul Arsy (14)	terhadap		district, Sukabumi	resilience, and	community
	Kesiapsiagaan		District with a	preparedness is	preparedness in
	Masyarakat dalam		sample size of	ready, with a p-	facing landslides in
	Menghadapi		380 people.	value = 0.000	Girijaya Village,
	Bencana Tanah			which means	Nagrak Sub-district,
	Longsor di Desa			<0.05, indicating	Sukabumi District.
	Girijaya			that there is an	
	Kecamatan			influence of	
	Nagrak			community	
	Kabupaten			resilience on	
	Sukabumi			community	
				preparedness.	
Samson Mideksa,	Social Support as	Correlational	9th and 10th	Family social	The higher the social
Dina D. Galang,	Determinants of	descriptive design	grade students of	support is	support from parents,
MulualemEndeshaw	Disaster		selected high	positively and	peers, and schools,
Fetuma Feyera,	Preparedness		schools from	significantly	the higher the
Yosef,	•		Luzon, Visayas,	related to disaster	student involvement
Gebreyohannes,			and Mindanao in	preparedness	in disaster
Desalegn Ararso,			the Philippines	with a value of	preparedness.
Tsegaye Getachew,			with a total	R=0.456 and p-	
Sabit Ababor, Ermias			sample size of	value=0.000. Peer	
Woldie, Zelalem			933.	social support is	
Kebede, Firmaye				positively and	
Bogale, Dagmawit				significantly	
Solomon (15)				related to disaster	
				preparedness	





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					111	T 1
					with a value of	
					R=0.421 and p-value=0.000.	
					School social	
					support is	
					positively and	
					significantly	
					related to disaster	
					preparedness	
					with R=0.581 and	
3.4:11:	<u> </u>	77 1	D ' ' '	A11 . 1 . C	p-value=0.000.	mi ·
Millia	Anggraini,	Hubungan	Descriptive	All students of	There is a	There is a
Yaslina	Yaslina,	Dukungan Sosial	analytic	SMPN 2 Tanjung	relationship	relationship between
Kalpana	Kartika,	dan Ketersediaan	with a cross		between social	social support and
Samsuri	Maidani	Informasi	sectional	sample of 67	support and	information
(16)		terhadap	approach	people.	preparedness	availability with
		Perilaku			behavior with a p-	preparedness
		Kesiapsiagaan			value = 0.004 with	
		Menghadapi			an OR = 5.077 and	preparedness
		Erupsi Gunung			there is a	behavior.
		Merapi pada			significant	
		Siswa SMPN 2			relationship	
		Tanjung Baru			between	
		Kab. Tanah Datar			information	
					availability and	
					preparedness	
					behavior with a p-	
					value = 0.003 with	
					an OR = 5.400.	







#### DISCUSSION

Based on the 6 articles that have been reviewed, researchers will explain social factors as determinants in community disaster preparedness. In this literature review, most of the studies are quantitative studies.

Disaster preparedness is the activities and actions taken in advance to ensure an effective response to hazard impacts, including timely and effective early warning and evacuation of threatened locations (17,18). In the literature review, there are social factors to disaster preparedness, namely social capital, community resilience, and social support. In research by (19) showed that there is a relationship between social capital and disaster preparedness (20). In addition, conceptually social capital has a direct relationship with disaster preparedness. According to (21) social capital is a part of social life such as networks, norms, and trust that encourages participants to act together more effectively to achieve common goals. In Sadeka (20) social capital has a beneficial impact on a variety of issues, including disaster preparedness. Where social capital includes social networks as well as reciprocal standards and trust that are critical to accelerating disaster planning and recovery. In research by (22) showed that there is a relationship between community resilience and community preparedness. Resilience and a person's experience of disaster determine what actions will be taken when the disaster comes based on previous knowledge or experience to improve preparedness (23). Communities that have had disaster experience have a more prepared level of preparedness. This is because personal experiences that have been or are being experienced will shape and influence the community towards the stimulus of the surrounding environment. In research by Mideksa (24) showed that there is a relationship between social support and disaster preparedness Anggraini (25). Social support is one of the terms interpreting how a social relationship

can channel gifts that are beneficial to the mental or physical health of an individual (26).

Social support plays an important role in disaster preparedness because the more social support, the higher the chance of preparing for an upcoming disaster. Good social support will create a team that is held before, during and after a disaster. The higher the thought process and organizing activities, the higher the desired goals in preparing for the upcoming disaster. In addition, the more plans to provide information, education, materials, and skill development for disaster preparedness, the higher the thinking and organizing activities to achieve the desired goals in preparation for the upcoming disaster (24,25).

The results of all these articles show that social capital, community resilience and social support have a relationship with disaster preparedness through various research methods. The results also show that social factors are strongly related to disaster management, especially disaster preparedness. The facts also show that there is conformity with the theory that social factor determinants can increase community preparedness in the face of disasters.

#### **CONCLUSION**

literature review explores the relationship between social factors. including social capital. community resilience, and social support, in disaster preparedness. Social capital, which includes networks, norms, and trust, encourages collaboration and effective response to hazard impacts. Community resilience, on the other hand, is influenced by personal experiences and disaster experiences, resulting in more prepared communities. Social support, in turn, increases the likelihood of preparing for disasters and fosters a team for disaster preparedness. Overall, social factors strongly contribute to management and community preparedness in the face of disasters. Social factors including social







capital, community resilience and social support significantly influence community preparedness in the face of disasters. This is supported by 6 articles that have been reviewed and in these articles it is stated that preparedness is influenced by various factors, including social capital, community resilience, and social support.

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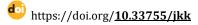




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