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Perceived Social Support in Older Adults After Natural Disasters

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Abstract

Background: Older adults are a vulnerable population following natural disasters, and perceived social support (PSS) is a critical factor for their resilience and recovery. The Multidimensional Scale of Perceived Social Support (MSPSS) is a widely used instrument, but its psychometric properties have not been adequately validated for use with older adult disaster survivors.

Methods: This study assessed the reliability, validity, and factor structure of the MSPSS in a sample of older adults (aged 50+) affected by the 2019 Dallas tornado. Exploratory Factor Analysis (EFA) was conducted on a sample of 82 participants, and Confirmatory Factor Analysis (CFA) was used to confirm the structure on a larger sample of 197 participants.

Results: EFA confirmed the hypothesized three-factor structure (Support from Friends, Support from Significant Others, and Support from Family), which accounted for 85.84% of the variance. All subscales demonstrated excellent reliability (Cronbach's $\alpha = 0.94$ –0.97). CFA indicated good model fit (CFI = 0.957), and the scale demonstrated strong convergent and discriminant validity, with all average variance extracted (AVE) values above 0.80.

Conclusion: The MSPSS is a valid and reliable tool for measuring perceived social support among older adults in the aftermath of a natural disaster. Its use can aid researchers and practitioners in assessing support needs, developing targeted interventions, and informing policies to promote recovery and improve the wellbeing of this vulnerable population.

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Introduction

Natural disasters represent profound ecological and social disruptions, causing widespread damage, hardship, and loss of life. For older adults, a demographic particularly vulnerable to the adverse effects of such catastrophes, the aftermath extends beyond physical destruction to encompass significant and lasting psychological challenges [1]. The stress of coping with loss, trauma, and displacement can severely impact mental health and wellbeing. In this context, social support emerges as a critical buffer, serving as a protective factor that can mitigate negative outcomes and foster resilience [2]. However, the very fabric of social support is often threatened when disasters devastate communities, potentially eroding the networks that survivors rely upon most [3]. Consequently, accurately measuring the perception of available support is paramount for understanding recovery trajectories. This study investigates the applicability of a key psychometric instrument, the Multidimensional Scale of Perceived Social Support (MSPSS), for use with older adults recovering from natural disasters. To contextualize this investigation within the broader field, the gerontological literature has long established that robust social networks and high levels of perceived social support are strongly associated with better physical and mental health outcomes in older adulthood [4]. Unlike received support, which pertains to actual supportive acts, perceived social support refers to an individual's subjective appraisal that help will be available when needed from their network [5].

This perception is a powerful psychological resource, linked to reduced rates of cognitive decline, lower morbidity, and increased longevity [6]. For older disaster survivors, who may face compounded losses including the death of peers, destruction of community hubs, and forced relocation, the perception that support remains available may be a crucial determinant of their ability to cope and adapt [7]. Despite its importance, a significant gap exists in the disaster literature concerning how older adults specifically perceive their social support following a catastrophic event. Many studies utilize scales designed for and validated on general adult populations, neglecting

the unique social contexts and support structures of older adulthood [8]. The MSPSS, developed by Zimet et al. is one such instrument. It is a brief, self-report measure designed to assess perceptions of support from three distinct sources: Family, Friends, and a Significant Other[9]. While its psychometric properties are well-established across diverse populations, including adolescents and various patient groups, its factorial validity, reliability, and applicability for older adults, particularly in the high-stress context of a natural disaster, remain unexplored [10]. Given this gap, the evaluation of an instrument's construct validity is a fundamental step in social science research. Factor analysis, including both exploratory (EFA) and confirmatory (CFA) techniques, is essential for verifying whether a scale's hypothesized structure holds true for a new population [11]. Using a scale without such validation risks systematic measurement error and biased findings, ultimately limiting the utility of research for informing effective interventions [12].

Literature Review Natural Disasters

Although definitions vary, disasters are usually conceptualized as natural or human-made events that cause sweeping damage, hardship, or loss of life across one or more strata of society [13]. Disasters typically strike swiftly, but it can take years to recover from them. Natural disasters can cause lasting psychological harm and research indicates that survivors experience severe levels of psychological distress (Bonanno et al., 2011). When natural disasters happen, the survivors face a multitude of harms such as coping with loss, trauma, and possible physical harm. It can involve immediate life-threatening situations and the destruction of value (monetary, symbolic, emotional) and the stress that this causes can impact survivors' mental health and social support can have a substantial impact with their ability to cope.

The lasting impact of natural disasters can beget a range of psychological consequences, but the most relevant question with regards to coping is how to survive without long lasting psychological effects. Surprisingly, the literature on disaster has not adequately addressed this question [14]. It is known that social

support is, at the same time a critical resource helping people cope, as it serves to be a protective factor for the survivors and their communities. Given, that natural disasters can devastate entire communities into collective trauma and irrevocably damage social life and the bonds associated with that (Erikson, 1976), researchers must address what can help survivors cope best with the aftermath.

Perceived Social Support (PSS)

Although disasters may occur suddenly the stress associated with them is not just acute, as they create ongoing and enduring challenges for survivors and communities. Disasters put families, neighborhoods, and communities at risk. Survivors often receive immediate support from their families, relatives, and friends, and for this reason many survivors subsequently claim that the experience brought them closer together. There is evidence that social relationships can improve after disasters, especially within the immediate family [14,15]. However, the bulk of evidence indicates that the stress of disasters can erode both interpersonal relationships and sense of community [15], McFarlane et al., 2009). Regardless of how they are affected, post-disaster social relations are important predictors of coping success and resilience.

According to the contemporary models of stress, social support is a great asset that not only alleviates stress, but also promotes preservation of psychological resources that are needed for successful coping [16]. Studies that have examined the role of social support among victims of natural disasters show that those who had lower levels of perceived support showed greater distress [17-19].

Older Adults and Perceived Social Support

Gerontological research has highlighted the influence of different configurations of social networks and social support on health outcomes. Social support has an important impact on the wellbeing of older adults. Some studies have shown that perceived social support is more important than received social support. Robust social networks are associated with better physical and mental health outcomes, whereas lack of social support has been linked to increased risk for mortality and morbidity [20-22]. Social support can be regarded as the perception that an individual

is cared for and has supports available and the level of integration an individual has in a social network [23]. Although family and friends typically deliver support, other associates (e.g., coworkers, neighbors) also serve as members in support networks [24].

The receipt of social support plays an important role in cognitive function in older adults. Studies have shown that the presence and degree of social support may reduce the rate of cognitive decline and dementia [25]. Additionally, social support has been shown to protect individuals against the harmful consequences of stressful events, thus exerting positive effects on wellbeing and cognition [26]. Some scales were originally designed for the assessment of PSS in adults, which are commonly used in studies with elderly, although these were neither specifically designed for elderly, nor were they designed from the perspective of this particular age group. However, there is a dearth of literature on how older adults perceive social support after a natural disaster and this study proposes to fill that gap by examining the structure of the MSPSS as it applies to older adults.

Theoretical Background

The evaluation of the structure and validity of new and existing measures of psychological traits is an imperative task in social science empirical research. One of the most important statistical techniques in this area is the common factor model: Exploratory Factor Analysis (EFA) and Confirmatory Factor Analysis (CFA). As such, the scholarly literature suggests that self-report measures are commonly inundated with biases Podsakoff et al. so it has become increasingly important to resolve this problem by using validated scales that can be generalized over different populations. This can reduce systematic error and help mitigate the bias and take into consideration the scales [sometimes] complex factorial structure [12].

Several scales designed to measure social support have been described in literature (Bruhm & Philips, 1984; House & Kahn, 1985; and Tardy, 1985). Both quantitative measures of support (e.g., the number of friends one can turn to in a crisis) and qualitative measures (e.g., perceptions of social support adequacy) have been investigated. The MSPSS was theoretically designed to assess perceptions of social support from three different sources: family, friends, and significant

other [10]. Although the scale has been shown to be psychometrically sound, reliable, and having factorial and construct validity across college students, it has not been tested on older adults [27].

In particular, the present study aims to fill this methodological and practical gap by examining the factor structure, reliability, and validity of the MSPSS among older adults affected by a natural disaster. By rigorously testing this instrument, our research seeks to provide researchers and clinicians with a validated tool to accurately assess perceived social support in this vulnerable population. This, in turn, can facilitate the development of targeted support programs, inform policy decisions for disaster preparedness and response, and ultimately contribute to improving the recovery and long-term wellbeing of older adult disaster survivors.

Methods Data Sources

This study conducted EFA and CFA using two different sets of datasets. The data for EFA were randomly collected in October 2020 from a smaller sample of older adults who aged over 50 and living in the area affected by 2019 Dallas tornado (N=87). The data for CFA were randomly collected between November 2020 to January 2021 from a larger sample of older adults who aged over 50 and self-identified as affected by 2019 Dallas tornado (N=205). The researcher used listwise deletion to exclude respondents with missing values in analytic variables, thus the final working samples for EFA and CFA were 82 and 197 respectively.

Measures

The focus of this study is the MSPSS which measures perceived support from family, friends, and significant others [9]. It includes 12 items:

- There is a special person who is around when I am in need
- There is a special person with whom I can share my joys and sorrows
- My family really tries to help me
- I get the emotional help and support I need from my family
- I have a special person who is a real source of comfort to me
- My friends really try to help me

- I can count on my friends when things go wrong
- I can talk about my problems with my family
- I have friends with whom I can share my joys and sorrows
- There is a special person in my life who cares about my feelings
- My family is willing to help me make decisions, and
- I can talk about my problems with my friends. Respondents need to rate how they feel about each item using a 7-point Likert scale ranging from 1 = "Very strongly disagree" to 7 = "Very strongly agree".

Data Analyses

First, univariate analyses were used to describe the average age and item scores of the two samples. Subsequently, EFA was conducted using SPSS 25.0 to preliminarily identify the underlying structure of PSS. Finally, the researcher performed CFA to test whether the data fit the model and test discriminant validity and convergent validity, using Amos 23.

Results Descriptives

Table 1 showed the age and item scores of samples for EFA. The average age was 64.88 (SD = 9.83). The mean scores of each item ranged from 4.99 to 5.37, indicating that the respondents moderately agree with these statements in general.

Table 1: Descriptives of the sample for EFA (N = 82)

Variable	Mean	SD	Range
Age	64.88	9.83	50-87
There is a special person who is around when I am in need	5.2	1.98	01-Jul
There is a special person with whom I can share my joys and sorrows	5.22	1.98	01-Jul
My family really tries to help me	5.37	1.64	01-Jul
I get the emotional help and support I need from my family	5.09	1.83	01-Jul
I have a special person who is a real source of comfort to me	5.16	1.98	01-Jul
My friends really try to help me	5.12	1.65	01-Jul
I can count on my friends when things go wrong	5.24	1.61	01-Jul
I can talk about my problems with my family	5.23	1.81	01-Jul
I have friends with whom I can share my joys and sorrows	5.3	1.6	01-Jul
There is a special person in my life who cares about my feelings	5.28	1.95	01-Jul
My family is willing to help me make decisions	4.99	1.8	01-Jul
I can talk about my problems with my friends	5.18	1.62	01-Jul

SD, standard deviation.

The descriptives of the sample for CFA were presented in Table 2. The average age was 64.76 (SD = 10.02). The mean scores of each item ranged from 5.28 to 5.73, indicating that the respondents moderately agree with these statements in general.

Table 2: Descriptive of the sample for CFA (N = 197)

Variable	Mean	SD	Range
Age	64.76	10.02	50-100
There is a special person who is around when I am in need	5.63	1.79	01-Jul
There is a special person with whom I can share my joys and sor-	5.73	1.69	01-Jul
rows			
My family really tries to help me	5.44	1.68	01-Jul
I get the emotional help and support I need from my family	5.39	1.66	01-Jul
I have a special person who is a real source of comfort to me	5.6	1.73	01-Jul
My friends really try to help me	5.34	1.52	01-Jul
I can count on my friends when things go wrong	5.48	1.46	01-Jul
I can talk about my problems with my family	5.43	1.57	01-Jul
I have friends with whom I can share my joys and sorrows	5.46	1.61	01-Jul
There is a special person in my life who cares about my feelings	5.72	1.68	01-Jul
My family is willing to help me make decisions	5.43	1.58	01-Jul
I can talk about my problems with my friends	5.28	1.63	01-Jul

SD, standard deviation.

EFA Results

EFA was conducted on the 12 items of PSS. The researcher used two measures to test the fit between the data and the factor analysis to be conducted. The first measure, the Barlett Test of Sphericity (BTS), BTS = 1324.28, p < .001, which rejected the hypothesis that the correlation matrix was an identity matrix and showed that factor analysis was a proper statistical method for this data. The second measure was KMO. The obtained statistic was 0.90, which was a very good fit for the factor analysis method. Both tests indicated that EFA fit these data.

Principal axis factoring analysis with promax rotation was used in this study. After checking the scree plot, three distinct factors accounted for all the 12 items. These factors had initial eigenvalues between 0.84 to 8.67, explaining 85.84% of the variance (Factor 1 = 71.12%, Factor 2 = 8.72%, Factor 3 = 6.00%). Loadings and eigenvalues of each factor were presented in Table 3. Items were included in a factor if their loading on that factor was larger than 0.4. Three factors were identified: Support from friends (Factor 1), Support from significant others (Factor 2), and Support from family (Factor 3). In this way, there were three subscales. Cronbach's alpha of subscale 1 – Support from friends was 0.97; of subscale 2 – Support from significant others was 0.96; of subscale 3 – Support from family was 0.94. All the three subscales had good reliability.

Table 3: Exploratory factor analysis of PSS

Factors				
Items	1	2	3	
I can talk about my problems with my friends	1.03			
I have friends with whom I can share my joys and sorrows	0.92			
I can count on my friends when things go wrong	0.81			
My friends really try to help me	0.73			
There is a special person with whom I can share my joys and sorrows		1.01		
I have a special person who is a real source of comfort to me		0.87		
There is a special person who is around when I am in need		0.86		
There is a special person in my life who cares about my feelings		0.8		
My family is willing to help me make decisions			0.91	
My family really tries to help me			0.86	
I can talk about my problems with my family			0.82	
I get the emotional help and support I need from my family			0.82	
Eigenvalue	8.67	1.22	0.84	
Cronbach's alpha	0.97	0.96	0.94	
Variance explained	71.12%	8.72%	6.00%	

CFA Results

The measurement model was showed in Figure 1. The confirmatory factor analysis of 12 items in 3 factors yielded a good fit ($\chi 2 = 183.870$, df = 51, p < .001). The value of CFI was 0.957 and of RMSEA was 0.110. Table 4 showed that all the unstandardized factor loadings were significant, so none of the items need to be removed from the model. The standardized estimates of factor loadings were all larger than 0.6, which meant that they can very well reflect the latent variable.

Figure 1: Measurement model for CFA

Table 4 also presented the results about convergent validity test. The values of SMC were all above 0.36, indicating sufficient item reliability. Values of composite reliability were all above 0.7, which suggested a good internal consistency. All the values of AVE were above 0.5, showing that each construct closely correlates with related variables, i.e., good convergent validity.

Table 4: Parameter estimates and convergent validity

Factors	Items	Parameter Estimates				Factor Loading	Item Reliabil- ity	Com- posite Reliabil- ity	Convergent Validity
		Unstd.	S.E.	C.R.	P	Std.	SMC	CR	AVE
Friends	la8_6	1				0.9	0.81	0.963	0.866
	la8_7	1.012	0.044	23.079	***	0.948	0.899		
	la8_9	1.102	0.049	22.305	***	0.937	0.878		
	la8_12	1.115	0.05	22.254	***	0.937	0.878		
Significant Others	la8_1	1				0.895	0.801	0.962	0.863
	la8_2	0.99	0.046	21.711	***	0.935	0.874		
	la8_5	1.028	0.045	22.646	***	0.949	0.901		
	la8_10	0.986	0.045	21.793	***	0.936	0.876		
Family	la8_3	1				0.932	0.869	0.941	0.8
	la8_4	0.981	0.043	22.852	***	0.926	0.857		
	la8_8	0.874	0.045	19.222	***	0.869	0.755		
	la8_11	0.854	0.047	18.039	***	0.847	0.717		

Table 5 demonstrated the results of divergent validity. For each factor, the square root of each AVE was larger than the correlation coefficients between this factor and other factors. Take the factor of friends as an example, 0.931 was larger than 0.746 and 0.758. Therefore, it is believed that this scale had good divergent validity.

Table	5:	Divergent	validity
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	AVE	Significant Others	Friends	Family
Significant Others	0.863	0.929		
Friends	0.866	0.746	0.931	
Family	0.8	0.881	0.758	0.894

Discussion

This study validated the MSPSS for use with older adults following natural disasters, successfully confirming the instrument's original three-factor structure measuring support from family, friends, and significant others. The robust psychometric properties, including high internal consistency ($\alpha = 0.94-0.97$), strong factor loadings, and excellent convergent and discriminant validity, demonstrate the scale's reliability in capturing distinct dimensions of perceived support within this vulnerable population. The preservation of these distinct support categories suggests that even amid disaster-related disruption, older adults maintain differentiated perceptions of their support networks, which carries important implications for both research and practice. Crucially, the validation enables more precise assessment of support sources, allowing practitioners to identify whether support deficits originate from family systems, friendship networks, or absence of significant others. This specificity facilitates targeted interventions such as family counseling, social connection programs, or partner support services. The generally high support levels observed may reflect either the "relational renewal" phenomenon where disasters strengthen community bonds, or possibly a resilience factor where better-supported individuals were more likely to participate in research. By providing a validated measurement tool, this study addresses a significant gap in disaster literature, enabling researchers to better investigate how perceived social support mediates recovery outcomes including trauma reduction, depression mitigation, and cognitive preservation in older survivors.

While these findings establish the MSPSS as psychometrically sound for this population, further

research should examine its applicability across diverse cultural contexts where family structures and support perceptions may vary significantly. Longitudinal studies tracking support patterns across disaster recovery phases would also strengthen understanding of how social support evolves over time. This validation represents an important step toward developing evidence-based, personalized support interventions that can enhance recovery and wellbeing for older adults affected by natural disasters [28,29].

Limitations

This study has several limitations that should be acknowledged. First, the findings are based on a sample from a single disaster type (tornado) in a specific geographic location (Dallas), which may limit generalizability to other disaster contexts and cultural settings. Second, while including adults aged 50+, the study did not stratify by narrower age groups or control for key demographic variables like socioeconomic status, ethnicity, or pre-existing health conditions, which may influence social support perceptions. Third, the cross-sectional design provides only a snapshot of support perceptions; a longitudinal approach would better capture how social support evolves throughout disaster recovery phases. Finally, while adequate for factor analysis, a larger sample size would permit more sophisticated analyses and enhance the stability of the results. Additionally, the reliance on self-reported data introduces the possibility of response biases, such as social desirability or recall bias. The study also did not account for potential variations in disaster exposure intensity among participants, which could affect perceived support levels. The use of a convenience sampling method, while practical, may have resulted in a sample that is not fully representative of the entire affected older adult population, potentially

overlooking the most isolated and vulnerable individuals. Furthermore, the study did not incorporate qualitative measures to provide richer context to the quantitative scores, which could have helped explain some of the nuances behind the perceived support ratings. Finally, the psychometric validation focused on the internal structure of the scale but did not assess other forms of validity, such as predictive validity against key mental health outcomes like PTSD or depression. Future research should address these limitations to further validate the MSPSS across diverse disaster-affected older adult populations.

Implications and Conclusion

The successful validation of the Multidimensional Scale of Perceived Social Support (MSPSS) for use with older adults in a post-disaster context carries profound and multi-faceted implications that extend from the theoretical realms of academic research to the very practical realities of clinical intervention and public policy, ultimately culminating in a robust conclusion about the instrument's utility. From a research perspective, this study provides a critical methodological advancement by furnishing gerontological and disaster scholars with a psychometrically sound tool specifically validated for a vulnerable and often under-represented population. This allows for a more nuanced and accurate investigation into the complex mechanisms of disaster recovery, particularly in understanding how distinct dimensions of perceived support, from family, friends, and significant others, uniquely mediate critical outcomes such as post-traumatic stress reduction, the mitigation of major depressive disorders, and the preservation of cognitive function amidst severe stress. The ability to reliably measure these specific support sources opens new avenues for longitudinal research that can track how social support ecosystems evolve, deteriorate, or strengthen throughout the various phases of disaster recovery, from the immediate crisis to longterm community rebuilding.

For clinical practice and on-the-ground disaster response, the implications are immediately actionable. The validated MSPSS transforms from a research instrument into a vital clinical screening tool that can be rapidly deployed by geriatric social workers, community mental health professionals, and emergency response teams to identify isolated and high-risk

individuals with a previously unattainable level of precision. Rather than viewing social support as a monolithic construct, practitioners can now pinpoint the exact origin of a support deficit. This diagnostic specificity is the cornerstone of personalized intervention; for instance, an individual scoring low on the Family subscale may benefit from family systems therapy or mediation services to repair strained household dynamics, while one lacking in the Friends domain might be referred to community-based social groups or peer-support programs designed to combat loneliness and rebuild social networks. Similarly, a deficit in support from a Significant Other could trigger interventions focused on fostering a new intimate connection or strengthening ties with a single primary confidant. This moves the field beyond generic "social support" recommendations towards targeted, efficient, and effective support strategies that directly address the specific relational gaps in an older adult's life.

At the macro level of public policy and disaster preparedness, these findings serve as a compelling evidence-based mandate. They underscore the non-negotiable need to integrate standardized, gerontologically-validated psychosocial assessments into the very fabric of national and local disaster response frameworks. Emergency management agencies and public health departments can use this data to advocate for and allocate resources towards developing support programs specifically tailored for the elderly, ensuring that recovery efforts are not only about restoring physical infrastructure but also about rebuilding the social fabric that is so crucial for their long-term survival and wellbeing. This could include funding for community centers that serve as social hubs for older adults, training for first responders on the unique psychosocial needs of the elderly, and policies that support intergenerational community-building initiatives in the wake of a disaster. In conclusion, by rigorously establishing the factorial validity, reliability, and applicability of the MSPSS, this study does more than simply fill a methodological gap in the literature; it provides a foundational and powerful tool that bridges the gap between research, practice, and policy. It empowers a more nuanced, compassionate, and ultimately more effective approach to fostering resilience, thus significantly contributing to the improved recovery and long-term quality of life for older adults navigating the immense challenges of a post-disaster world.

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