Original Research

General disaster preparedness beliefs and related sociodemographic characteristics: The example of Yalova University, Turkey

Ebru Inal^a, K. Hakan Altintas^b, Nuri Dogan^c

^aDr., Lecturer, Emergency and Disaster Management Onsekiz Mart University, Çanakkale, Turkey

^bProf.Dr., Public Health Department of Public Health, Head, Faculty of Medicine, Hacettepe University, Ankara, Turkey

^cProf.Dr., Department of Educational Sciences of Faculty of Education, Hacettepe University, Ankara, Turkey

Received: 19.01.2018, Accepted: 13.09.2018

Abstract

Aim: This study aimed to identify sociodemographic and disaster related factors associated with General Disaster Preparedness Belief using the Health Belief Model as a theoretical framework. Methods: The survey study was conducted in Yalova, Turkey between April and July, 2014. A prevalidated General Disaster Preparedness Belief scale instrument based on the Health Belief Model was administered to a study group of 286 academic and administrative staff. The General Disaster Preparedness Belief score was computed by summing up the six Health Belief Model subscales. Hierarchical linear regression was used to test for association between the General Disaster Preparedness Belief score and its associated factors. Results: The General Disaster Preparedness Belief score was positively associated with; higher monthly income, higher occupational status, having experienced any disaster previously and having any emergency/disaster education. Respondents who had any emergency/disaster education had on average an 19.05 higher General Disaster Preparedness Belief score as compared to respondents who had no emergency/disaster education (β =19.05±4.83, p<0.001). Furthermore, participants who had experienced any disaster had on average 21.615 higher GDPB score as compared to participants who had never experienced any disaster (β =21.62±0.32, p<0.001). Conclusions: Monthly income, occupational status, previous experiences of disasters and access to emergency/disaster education were important factors associated with General Disaster Preparedness Belief. Interventions aimed at increasing general disaster preparedness should include provision of disaster education and should target individuals with lower socioeconomic status as a priority.

Keywords: Disaster, emergency, Health Belief Model, preparedness, sociodemographic characteristics

Correspondence to: Ebru Inal, Emergency and Disaster Management Onsekiz Mart University, Çanakkale, Turkey. **E-mail:** <u>ebru.inal@hacettepe.edu.tr</u>

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Turk J Public Health 2019;17(1)

Genel afete hazırlık inançları ve ilişkili sosyodemografik özellikler: Yalova Üniversitesi Örneği

Öz

Amaç: Bu çalışma, kavramsal bir çerçeve olarak Sağlık İnanç Modeli'nin kullanılmasıyla Genel Afetlere Hazırlık İnançları ile ilgili sosyodemografik ve afetlerle ilişkili faktörleri belirlemeyi amaçlamaktadır. Yöntem: Bu araştırma Nisan-Temmuz 2014 yılları arasında Yalova'da yürütülmüstür. Gecerliği kabul edilmiş Sağlık İnanç Modeli'ne dayalı Genel Afetlere Hazırlık İnanç Ölçeği akademik ve idari personelden oluşan 286 kişilik bir çalışma grubuna uygulanmıştır. Genel Afetlere Hazırlık Ölçeği puanı Sağlık İnanç Modeli altölçeklerinin toplanmasıyla elde edilmiştir. Genel Afetlere Hazırlık Ölçeği puanı ve ilişkili faktörler arasındaki ilişki için hiyerarşik linear regresyon kullanılmıştır. **Bulgular:** Genel Afetlere Hazırlık İnanç puanı daha yüksek aylık gelir, daha yüksek mesleki durum, daha önceki afet deneyimi ve acil durum/afet eğitimi almış olmak ile pozitif olarak ilişkilidir. Daha önce acil durum/afet eğitimi alan katılımcılar daha önce hiç acil durum/afet eğitimi almadığını belirten katılımcılar ilekarşılaştırıldığında ortalama olarak 19.05 kez daha yüksek Genel Afetlere Hazırlık İnanç puanına sahiptir (β =19.05±4.83, p<0.001). Ayrıca, daha önce herhangi bir afet deneyimi olan katılımcılar hiç afet deneyimi olmayan katılımcılar ile karşılaştırıldığında ortalama olarak 21.62 kez daha yüksek Genel Afetlere Hazırlık İnanc puanına sahiptir ($\beta = 21.62 \pm 0.32$, p<0.001). Sonuc: Aylık gelir, mesleki durum, herhangi bir afet deneyimi ve herhangi bir afet eğitimine sahip olma durumu Genel Afetlere Hazırlık İnancı ile ilişkili önemli faktörlerdir. Genel afete hazırlığı artırmayı amaçlayan müdahaleler afet eğitiminin temel ilkesini içermeli ve ilk öncelik olarak daha düşük sosyoekonomik durumda olan kişileri hedeflemelidir.

Anahtar sözcükler: Afet, acil durum, Sağlık İnanç Modeli, hazırlık, sosyodemografik özellikler

Introduction

Disaster is defined as "A serious disruption of the functioning of society, causing widespread human, material, or environmental losses which exceed the ability of affected society to cope using only its own resources".1 Disasters are natural or man-made emergency events which have negative economic and social consequences for the affected population.² The 20th century had witnessed an increase in disaster losses, and this has continued in an upward trend in the current century. 3, 4 Turkey is prone to natural disasters due to structure.⁵ its geological Turkev has witnessed natural disasters such as earthquake, landslide, and flood.⁶ In Turkey, the earthquake disasters that occurred in

August 17, 1999 in Kocaeli and November 12, 1999 in Duzce were among the most devastating disasters. The 1999 Kocaeli earthquake alone left 17,000 people dead, 200,000 homeless, and resulted in a fiscal cost of some US\$2.2 billion. ⁵

Disaster preparedness is one of the basic components of disaster risk reduction. Effective disaster preparedness (e.g. storing food and water, securing high furniture and water heaters, preparing a household emergency plan) reduces vulnerability, increases mitigation level, enables timely and effective response to a disaster event, shortens the recovery period from a disaster, and increases community resilience. ^{7, 8} Currently, there is a paucity of studies demonstrating the overall state of individual preparedness regards with emergencies/disasters Turkey. in Institutional (mostly hospital-based) and individual studies focusing on specific groups in Turkey can be found in the literatures 9-12 and the reported level of disaster preparedness mentioned in these studies are very low. Disaster preparedness has been shown to be affected by: risk perception, preparedness perception, selfefficacy, community participation, available resources and socio-demographic characteristics. 13-18

Socio-demographic and disaster related factors associated with disaster preparedness in the literatures include; age, gender, education, level of income, past disaster experience, previous disaster education and property ownership. ¹⁸⁻²⁴

According to previous studies, there are a number of behaviour change models that could be used to examine how perception can influence behaviour modification in relation to health risks. 7, 25-27 The HBM predicts that, "if individuals regard themselves as susceptible to a condition, believe that condition would have potentially serious consequences, believe that a course of action available to them would be beneficial in reducing either their susceptibility to or severity of the condition, and believe the anticipated benefits of taking action outweigh the barriers to (or costs of) action, they are likely to take action that they believe will reduce their risks". ²⁵ The HBM in addition, also includes a cue to actions variable whereby the individual is spurred to adopt the preventive behavior by internal or external stimuli, for example, exposure to information from the mass media or through discussions with other people. ²⁸ Later, scholars have suggested that self-efficacy should be incorporated into the HBM as a separate independent variable. ²⁹ If disaster is perceived as a health threat, then theoretical models such as the Health Belief Model (HBM) can be used to predict disaster preparedness behavior. In the HBM, disaster preparedness will depend on the following predictors: perceived susceptibility of experiencing a disaster, perceived severity of disaster, benefits of being prepared for a disaster, perceived barriers to being prepared for a disaster, cue to actions for disaster preparedness and individual's belief in their own ability to deal with a disaster. The study utilized the HBM because risk and threat perceptions, which are the main constructs of the HBM are appropriate for assessing individuals' disaster preparedness levels and perceptions. ²⁵ In Turkey, there is a paucity of studies on disaster preparedness using behavioural theories and this research tries to fill this gap.

This study aimed to investigate socio demographic and disaster related factors associated with General Disaster Preparedness Belief (GDPB) in Yalova University, Turkey using HBM as a theoretical framework.

Methods

Study Setting: This descriptive study was conducted in the city of Yalova among university staff's in a Turkish University.

Ethics: Permission to conduct the study was obtained from relevant authorities in Yalova (No:47080830-999-334/10.04.2014).Ethical approval was taken from University of Hacettepe Ethical Committee (No:16969557-520/12.05.2014). All university staff who participated in the study where given informed consent letters and informed about the purpose of the study. Furthermore, they were also instructed that withdrawal from the study was optional at any time.

Data collection tool: The questionnaire consisted of two parts. The first part had questions covering socio-demographic and disaster related information of participants namely; Age, gender, marital status,

educational status, number of living children, monthly income, occupational status, house ownership, ever experienced any disaster and past emergency/disaster education. The second part of the questionnaire consisted of a prevalidated GDPB scale instrument based on the HBM. ³⁰ The instrument consisted of 6 subscales and 31 items as follows; Self efficacy (8 items), Cue to actions (5 items), Perceived susceptibility (6 items), Perceived barriers (6 items), Perceived benefits (3 items) and Perceived severity (3 items) (Appendix 1). GDPB score was the dependent variable. The explanatory variables were: age, gender, marital status, level of education, number of living children, monthly income, occupational status, house ownership, ever experienced any disaster, had any emergency/disaster education.

GDPB score: GDPB score was computed by summing up all the 6 subscales (Self Efficacy + Cue to actions + Perceived susceptibility + Perceived barrier (items were reverse scaled) + Perceived benefits + Perceived severity) such that a higher score represented more positive belief.

The GDPB score was originally conceptualized as a multidimensional instrument, but was determined to be scorable as separate subscales or as a single measure of GDPB. ³⁰ Firstly, we examined Cronbach's coefficient alpha (stratified cronbach alpha 0.93 for GDPB) as a measure of internal consistency. It was high which in turn suggest that the items in each subscales homogeneous. were Also, preliminary analysis showed that the correlations between the GDPB score with the 6 HBM subscales from which it was derived were above 0.50, and all the correlations were less than 0.01 level of probability. The fact that the correlation coefficients were significant between the 6 HBM subscales and the GDPB score could be taken as evidence for summing up all the 6 subscales and for using the GDPB score. Furthermore, we also examined the fit of a second order factor model. In second order factor modeling, the factor loading of main construct on its subconstructs was performed in order to confirm that the theorized second order construct loaded into the respective subconstructs. The results indicated that the model fit the data. ³⁰ The second order factor modeling also provided evidence for summing up the 6 subscales.

Study group and data collection: The questionnaires were self-administered and were administered between April and July, 2014. Yalova University had a total of 420 academic staff and 202 administrative staff. Our target sample size was the entire 622 staff. Due to non-response and removal of participants with missing item response, our final sample consisted of a total of 286 academic and administrative staff (46.0%).

Statistical analysis: For the descriptive statistic of the study participants, continuous variables were reported as means and standard deviations (SDs), if not indicated otherwise. Hierarchical linear regression was performed to estimate the independent effect of sociodemographic and disaster explanatory variables on the outcome variable GDPB score. Model 1 consisted of sociodemographic variable while in Model 2 disaster variables were entered. Statistical analysis was done using the software programs IBM SPSS Statistics version 19.

Results

Descriptive statistics of participants: The average age of the participants was 32.8 years (\pm 5.4 years), more than half of the respondents were males (63.3%). Almost 53.2% of participants were currently married. In addition, a higher percentage of respondents had masters and above educational qualification (69.9%) while about half of respondents had a monthly income of 2.500-2.999 Turkish Lira (TL)

(\$854-\$1025). Administrative staff made up 30.3% of the respondents. Approximately 66.0% of respondents were living in selfowned apartments. In addition, a greater proportion of respondents had ever experienced a disaster (94.8%) and had not received emergency/disaster education (96.5%) (Table 1).

Age (years) (n=283)	n (%)
Range	25-53
Mean (SD)	32.8 (5.4)
Gender, n (%)	
Female	105 (36.7)
Male	181 (63.3)
Marital status, n (%) (n=282)	
Currently Married	150 (53.2)
Single/ Divorced/Widowed	132 (46.8)
Level of education, n (%) (n=276)	
Bachelor's degree	83 (30.1)
Masters and above	193 (69.9)
Number of living children (n=279)	
Range	0-4
Mean (SD)	0.68 (0.93)
Monthly income (TL), n (%) (n=283)	
2-2.499	62 (21.9)
2.5-2.999	144 (50.9)
3.000 and above	77 (27.2)
Occupational status, n (%) (n=284)	
Teaching assistant	60 (21.1)
Research assistant	78 (27.5)
Assistant professor/Associate professor/ Professor.	60 (21.1)
Administrative staff	86 (30.3)

Table 1. Socio demographic characteristics and disaster related factors (n=286)

Table 1 continue

House ownership, n (%) (n=283)				
Self-ownership	186 (65.7)			
Renting	97 (34.3)			
Ever experienced any disaster, n (%)				
No	15 (5.2)			
Yes	271 (94.8)			
Had any emergency/disaster education, n (%)				
Yes	10 (3.5)			
No	276 (96.5)			

Table 2 presents the distribution of GDPB score and the HBM subscales. "Self-efficacy" subscale has a mean score of 24,69 ± 6,35 (Min: 9,00, Max: 38,00); "Perceived

susceptibility" subscale score has a mean score of $26,57\pm4,04$ (Min:15,00, Max: 35,00) while GDPB has a mean score of $107,03\pm14,02$ (Min:66,00, Max: 145,00) (Table 2).

Table 2. Descriptive characteristics of GDPB score and subscales of HBM

Scale and Subscales	Number of items	Minimum score	Maximum score	Mean	Standard Deviation
GDPB score	31	66,00	145,00	107,03	14,02
Perceived Susceptibility	6	15,00	35,00	26,57	4,04
Perceived Severity	3	3,00	15,00	11,53	2,45
Perceived Benefits	3	4,00	15,00	11,93	1,94
Perceived Barriers	6	10,00	28,00	18,58	4,07
Cues to Action	5	6,00	25,00	13,80	4,11
Self-Efficacy	8	9,00	38,00	24,69	6,35

Factors associated with GDPB score: The first model in the hierarchical regression analysis included "Age, Gender, Marital status, Educational status, Number of living children, Monthly income, Occupational status, and House ownership", in the analysis of variance, F was significant, meaning the model significantly improved our ability to predict the outcome variable as compared to not fitting the model, the first model explained (R²= 0.294) 29.4 % of the variance in GDBP score, F (11, 246)=9.394, p<0.00. After entry of "ever experienced any disaster" and "had any emergency/disaster education" variables in the second model, the total variance explained totaled up to 42.0 % F (13, 244) = 13.612, p<0.001. Ever experienced any disaster and had any emergency/disaster education variables explained an additional 12.5 % of the variance in GDBP score, R square change=0 .125, F change (2,244) = 26.218, p<0.001.

Factors that were significantly associated with GDPB score after adjustment of socio-demographic and disaster variables (Model were monthly 2) income, occupational status, ever experienced a disaster and received anv emergency/disaster education. On the other hand, age, gender, marital status, educational status, number of living children and house ownership were not significantly associated with GDPB score.

Respondents who had a monthly income of 2500 to 2999 Turkish Lira (\$854-\$1025)had on an average 9.736 higher GDBP score as compared to respondents who had a monthly income of 2000 to 2499 Turkish Lira (\$683-\$854) (B=9.736 ±3.083, p=0.002), also, respondents with monthly income of 3000 TL and above Turkish Lira (\$1025 and above) had on average 14.775 higher GDPB score as compared to respondents with monthly income of 2-2.499TL (\$683-\$854) (B=14.775 ±3.362, p<0.001). Teaching assistant had on average -8.326 lesser GDBP score as compared to assistant professor/associate professor/professor (*B*=-8.326 ±2.839, p=0.004). Research assistant had significantly lower GDBP score as compared to assistant professor/associate professor/professor (Model 1), however, this significant was lost after controlling for "Ever experienced any disaster" and "had any emergency/disaster education" in model 2. Participants who had ever experienced any disaster had on average 21.615 higher GDPB score as compared to participants who had never experienced any disaster (*B*=21.615±0.315, p<0.001). Furthermore, having any emergency/disaster education was positively associated with GDPB score. Respondents who had any emergency/disaster education had on an average 19.050 higher GDPB score as compared to respondents who had not had any emergency/disaster education (B=19.050±0.206, p<0.001) (Table 3).

Discussion

The main aim of the study was to use the HBM as a theoretical framework to investigate associations between sociodemographic and disaster related factors with GDPB in Yalova University. The study showed that participants who had higher monthly income, higher occupational status, ever experienced any disaster and having any emergency/disaster education had higher GDPB score. Previous studies had also applied the HBM to study disaster preparedness, for instance, disease outbreak preparedness, ²⁶ and preparedness for climate change and heat waves. ²⁷ This study focused on general disaster preparedness beliefs, because the most widely employed classification of disaster preparedness has three categories namely; material preparedness, planning activities and knowledge-skills ³¹ and this classification is of the same for all disaster types.

Table 3. Factors associated with GDPB score

	Model 1*			Model 2**		
Characteristics	B (SE)	В	P value	B (SE)	β	P value
Age (years)	-0.286 (0.206)	-0.1.03	0.167	-0.209 (0.189)	-0.076	0.269
Gender						
Females	Ref	Ref	Ref	Ref	Ref	Ref
Male	1.983 (1.878)	0.064	0.292	1.139 (1.715)	0.037	0.507
Marital status						
Single/divorced/widowed	Ref	Ref	Ref	Ref	Ref	Ref
Currently married	3.057 (2.336)	0.102	0.192	2.410 (2.130)	0.080	0.259
Educational status						
Bachelor degree	Ref	Ref	Ref	Ref	Ref	Ref
Masters and above	3.108 (3.049)	0.096	0.309	2.589 (2.778)	0.080	0.352
Number of living children	1.251 (1.382)	0.078	0.366	0.524 (1.263)	0.033	0.679
Monthly income						
2,000-2,499 TL (\$683-\$854)	Ref	Ref	Ref	Ref	Ref	Ref
2,500-2,999 TL (\$854-\$1025)	12.174 (3.355)	0.405	< 0.001	9.736 (3.083)	0.324	0.002
3,000 TL and above (\$1025 and above)	17.479 (3.655)	0.513	< 0.001	14.775 (3.362)	0.434	< 0.001

Table 3 continue

Occupational status						
Assistant professor/Associate professor/ Professor	Ref	Ref	Ref	Ref	Ref	Ref
Teaching assistant	-10.938 (3.048)	-0.303	< 0.001	-8.326 (2.839)	-0.230	0.004
Research assistant	-7.964 (3.438)	-0.243	0.021	-5.661 (3.177)	-0.173	0.076
Administrative staff	-0.222 (3.727)	-0.007	0.953	2.141 (3.441)	0.065	0.534
House ownership						
Renting	Ref	Ref	Ref	Ref	Ref	Ref
Self-ownership	-1.446 (1.780)	-0.046	0.417	-1.219 (1.624)	-0.039	0.454
Ever experienced any disaster						
No	Ref	Ref	Ref	Ref	Ref	Ref
Yes				21.615 (3.528)	0.315	< 0.001
Had any emergency/disaster education						
No	Ref	Ref	Ref	Ref	Ref	Ref
Yes				19.050 (4.828)	0.206	< 0.001
R ²		0.294			0.420	
F		9.394**			13,612**	
Δ F					26.218**	
ΔR^2					0.125	

Notes: *B*=Unstandardized coefficient, SE=Standard Error, β=Standardized coefficient, Model 1= Sociodemographic factors, Model 2=Model 1 + Disaster variable, **= p < 0.001

* Model 1 is adjusted for Age, Gender, Marital status, Educational status, Number of living children, Monthly income, Occupational status, and House ownership.

** Model 2 is adjusted for Age, Gender, Marital status, Educational status, Number of living children, Monthly income, Occupational status, House ownership, ever experienced any disaster and Had any emergency/disaster education.

We found statistically significant associations between GDPB score and the following variables; monthly income, occupational status, ever experienced any disaster and having any emergency/disaster education.

Monthly income was an important determinant of GDPB score. According to our findings GDPB score was positively associated with higher monthly income. In consonance, Najafi et al also found that people with higher income were more prepared for disasters as compared to people with low income. ¹⁸ This finding could be explained by the fact that people with higher income are expected to have enough resources for performing preparedness behaviors such as living in areas less prone to disasters, and having qualified properties. ^{32, 33} A previous study associated belonging to the lower income group with limited resources for taking preparedness and response actions. 33

Occupational status was another significant predictor of GDBP in our study setting. GDPB score was lower among teaching assistants as compared to assistant professors/associate professors/professors. This finding might be related to accessibility to disaster preparedness information and ability to carry out disaster preparedness activity. The lower salaries received by the first group and having less experience in disasters due to their younger age may be another explanatory possibility. Studies done in Iran ¹⁸ and in the USA ³⁴ also showed an association between disaster preparedness behavior and occupational status.

Previous disaster experience emerged as a significant factor associated with GDPB score. Respondents who had previous disaster experience had higher GDPB score as compared to those who had not. Literature with regards to prior disaster experience and disaster preparedness showed mixed results. Some studies showed that past disaster experience was associated with an inclination to undertake preparedness activities thereafter ^{23, 24} whereas others showed that past disaster experience has little or no bearing on preparedness behaviors for the future. ^{35, 36} In a study done in New York City, the intensity of exposure to the September 2001 World Trade Center terrorism attack and lifetime exposure to traumatic events were associated with greater personal preparedness. 37

In the current study, having a previous emergency/disaster education was significantly associated with increased GDPB score, this result was not a surprising finding as previous emergency/disaster education is expected to increase an individual's preparedness by enhancing cognitive and risk evaluation skills. Our study finding was in consonance with a previous study done in Turkey. ³⁸

We observed that age was not significantly associated with disaster preparedness, our findings with regard to age is in consonance with a study done in Tehran. These authors also found that age was not significantly associated with disaster preparedness.¹⁸ Gender in addition was also not a significant predictor of disaster preparedness in our study, however, some studies strongly state that women are less prepared for disasters as compared to men, while other studies reject this hypothesis. ^{20,} ^{39, 40} Disaster preparedness among men and women may differ due to their societal differences in role and responsibilities as well as inequality in terms of decisionmaking power.

Educational status was also not a significant finding in our study, though, studies in the area of disaster preparedness and education have found significant positive correlations between the two. ^{41, 42} In addition, being married and having living children were also not significant predictors

of GDPB score in our study, however, a previous study showed that having more household member could contribute to how household heads prepare for a disaster. ^{18, 43} Furthermore, our study did not find a significant association between house ownership and GDPB score, on the other hand, a previous study showed that home owners seem to be more prepared for disaster than those who rent the place. ²²

The study has some limitations. The study sample size was restricted to a group comprising of individuals who were at a higher level of education as compared to the general population. Future study could focus on a much larger sample involving different study groups. In addition, our target sample size was the whole university's staff, however, the response rate was low, which resulted in a reduced sample size and power. The results of the study may also be skewed towards respondents who chose to participate, in addition, our findings may not be generalizable to the wider community, because the surveyed respondents may differ in important ways from the general population. It is also worth noting that the data collection instrument was non-specific in terms of hazard/s as the study aim was to assess general disaster preparedness beliefs.

Conclusions

This study attested that general disaster preparedness in Yalova University was associated with monthly income, occupational status, ever experienced a disaster and having any emergency/disaster education. These indicators could be the focus of further studies with regard to general disaster preparedness. Interventions aimed at increasing general disaster preparedness should include provision of disaster education and should target individual with lower socioeconomic status as a priority. Therefore, the effective educational programs based on HBM should be designed and implemented with emphasis on changing attitude toward to promote general disaster preparedness.

Conflict of Interest: There is no conflict of interest in this study.

Financial support: The authors received nil financial support for this study.

Acknowledgements: This study was presented as oral presentation in 2. International 20. National Public Health Congress 2018.

Authors' contributions: Ebru Inal (EI) and K. Hakan Altintas (KHA) designed the study, EI collected the data, EI wrote the manuscript. Nuri Doğan (ND) and EI made statistical analyses. KHA and ND made contributions to the interpretation of results and revised the manuscript. All the authors read and approved the final version.

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Table Appendix 1. General Disaster Preparedness Belief items

Efficacy1 I can not create an emergency /disasters evacuation plan with the people who live around my neighbourhood (R) Efficacy2 I can basic first aid Efficacy3 I can specify the hazards which can cause a fire Efficacy4 I can not conduct search and rescue to action even at the basic level (R) Efficacy5 I can not conduct search and rescue to action even at the basic level (R) Efficacy6 After an emergency situation/disaster, I can access the necessary services needed for psychological support. Efficacy7 I can not use a fire extinguisher (R) Efficacy8 I can determine a safe place at home/in the building to stay during an earthquake Cue to action1 The policies on emergency situation/disaster encourage me to be prepared for emergency situations/disasters Cue to action2 My friends enlighten me about the necessity of making individual preparations for emergency situations/disasters Cue to action3 Booklets, newspapers, brochures do not inform me enough (R) Cue to action4 The people to whose opinion 1 pay much importance to guide me on the subject of emergency situation/disasters (R) Susceptability1 I do not attach importance to preparing emergency/disaster kit for emergency situations/disasters preparation (R) Susceptability2 I take into consideration that 1 may experience an emergency situation/a disaster at some point in my life		
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	decrease the risk of death after emergency situations/disasters
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Severi	tv2 I am afraid of dving as a result of emergency situations/disasters
Severi	tv3 The idea of disasters scares me
Note: R=	Reversed scaled
Table A	Appendix 2. General Disaster Preparedness Belief items (Turkish Version)
eff1	Mahallemde yaşayanlarla birlikte Acil durumlar/Afetler ile ilgili tahliye planı oluşturamam.
eff2	Temel ilk yardım uygulayabilirim.
eff3	Yangın çıkmasına neden olacak tehlikeleri belirleyebilirim.
eff4	Basit düzeyde olsa dahi arama-kurtarma yapamam.
eff5	Evde sabitlenmesi gereken eşyaları sabitleyebilirim.
eff6	Acil durum/afet sonrası ihtiyacım olursa psikolojik destek almak için gerekli hizmete
	erişebilirim.
eff7	Yangın söndürme cihazını kullanamam.
eff8	Depremden korunmak için yaşadığım evde/binada güvenli yer belirleyebilirim.
cue1	Acil durum/Afet konusundaki politikalar beni Acil Durumlar/Afetler konusunda hazırlıklı
	olmaya teşvik ederler.
cue2	Arkadaşlarım Acil durumlara/Afetlere bireysel hazırlık yapmanın gerekliliği konusunda beni
	aydınlatırlar.
cue3	Kitapçıklar, gazeteler, broşürler beni yeterince bilgilendirmezler.
cue4	Fikirlerine önem verdiğim insanlar acil durumlara/afetlere hazırlıklı olma konusunda beni
	yönlendirirler.
cue5	Aile üyelerim Acil durumlara/Afetlere bireysel hazırlık yapmanın gerekliliği konusunda beni
	bilgilendirmezler.
sus1	Acil durumlara/Afetlere hazırlıkta acil durum/afet çantası hazırlamayı önemsemem.
sus2	Yaşamımın herhangi bir döneminde Acil durum/Afet yaşayacağımı göz önünde
	bulundururum.
sus3	Acil durumlara/Afetlere hazırlıkta bina dayanıklılığını artırmak benim için önemlidir.
sus4	Önümüzdeki birkaç yıl içinde Acil durum/Afet yaşama ihtimalim çok yüksektir.
sus5	Evdeki sabitlenebilecek eşyaları sabitlemeyi gereksiz buluyorum.
sus6	Yakın çevrem ile acil durumlarda/afetlerde gerekli acil iletişim numaraları hakkında
	konuşurum.
bar1	Acil durumlara/Afetlere bireysel hazırlık yapmak çok fazla zamanımı alır.
bar2	Acil durumlara/Afetlere hazırlık yapmaktan çok daha önemli sorumluluklarım var.
bar3	Acil durumlara/Afetlere bireysel hazırlık yapmak için yeterli bilgim yok.
bar4	Acil durumlara/Afetlere hazırlık yapmak için yeterli param yok.
bar5	Kaderimde Acil durumlarda/Afetlerde ölmek varsa ölürüm
bar6	Aile için afet planının anlaşılması zordur.
ben1	Acil durumlara/Afetlere bireysel hazırlık yapmam aile bireylerimi de koruyacaktır.
ben2	Acil durumlara/Afetlere hazırlık yapmak acil durumlarda/afetlerde ihtiyaçlarıma karşılık
	verecektir.
ben3	Acil durumlara/Afetlere bireysel hazırlık yapmak acil durumlar/afetler sonrası ölüm riskini
	azaltabilir.
sev1	Acil durum/Afet yaşarsam hayatımda hiçbir şey değişmeyecek.
sev2	Acil durumlar/Afetler sonucunda ölmekten korkarım.
sev3	Acil durum/Afet yaşama ihtimalini düşünmek beni korkutur.