

Bölüm 2

AFET DURUMUNDA KIRILGAN GRUP; YAŞLILAR¹

Aynur CİN²
Esin SEVGİ DOĞAN³
Hatice DEMİRAĞ⁴
Birgül TUNCAY⁵

Afetler aniden gerçekleşen zamanı, yeri, şiddeti önceden belirlenemeyen, çevreye ve insana zarar veren durumlar olarak literatürde yer almaktadır. Ülkeler açısından baktığımızda afetlerin sonuçları bakımından ülkelerin ekonomik, sosyal, ticari yönden olumsuz etkilendiği açık olarak görülmektedir (Press & Hamilton, 1999). Afet nedeniyle birçok insanın hayat kalitesi azalmakta, sağlık durumu bozulmakta, sosyal yönden kayıplara, psikolojik açıdan ise yıkıma uğradığı görülmektedir. Dünyadaki afet çeşitleri ele alındığında afetlerin jeolojik, klimatik, biyolojik, sosyal, teknolojik başlıklar altında toplandığı görülmektedir (FAADEM, 2016).

CRED'in (Centre for Research on the Epidemiology of Disasters) uluslararası felaketlere ilişkin yapmış olduğu bir araştırmaya göre 1994-2014 yılları arasında yaklaşık 2,5 milyar insan sel durumundan ötürü zarar görmüştür. Afetin yoğun yerleşme alanlarına uzaklışı, afetin fiziksel büyülüğu, ormanların ve çevrenin tahribi, fakirlik ve az gelişmişlik, hızlı nüfus artışı, tehlikeli bölgelerdeki hızlı ve denetimsiz kentleşme ve sanayileşme, bilgisizlik ve eğitim eksikliği, toplumun afet olaylarına karşı önceden alabildiği koruyucu ve önleyici önlemlerin ulaşabildiği düzey kavramları afetlerin büyülüklük ve etkilerinde belirleyici rol oynamaktadır (Ergünay, 2009).

2017 EM-DAT(The International Disaster Databases) verilerine göre 318 doğal afetin gerçekleştiği ve 122 ülkenin etkilendiği bildirilmiştir. Afet sonrası 96 milyon insanın etkilendiği, 9,503 ölüm rapor edilmiş olmakla birlikte ülke-

¹ Bu çalışma 22-24 Ekim 2018 tarihinde Gümüşhane'de düzenlenen I. Uluslararası Afet Yönetimi Kongresinde sözlü bildiri olarak sunulmuştur.

² Öğr. Gör., Gümüşhane Üniversitesi, Tibbi Hizmetler ve Teknikler Bölümü e-mail: ay-nur.86.92@gmail.com

³ Arş. Gör., Manisa Celal Bayar Üniversitesi, Hemşirelik Bölümü, esinsevgi1990@hotmail.com

⁴ Öğr. Gör., Gümüşhane Üniversitesi, Tibbi Hizmetler ve Teknikler Bölümü, hatice.demirag@gumushane.edu.tr

⁵ Öğr. Gör., Gümüşhane Üniversitesi, Çocuk Bakımı ve Gençlik Hizmetleri Bölümü, birgul.tuncay@gumushane.edu.tr

KAYNAKLAR

1. Acieno R, Ruggiero KJ, Galea S, Resnick HS, Koenen K, Roitzsch J, de Arellano M, Boyle J, Kilpatrick DG. Psychological sequelae resulting from the 2004 Florida hurricanes: implications for postdisaster intervention. *Am J Public Health.* 2007 Apr;97 Suppl 1:S103-8. PubMed PMID:17413067. Doi: 10.2105/AJPH.2006.087007
2. A Nationwide Survey. *Rev. Panam. Salud Publica.* 2014;36:402–408. Doi: 10.2105/AJPH.2013.301559
3. AFADEM, (2016). Doğal Afetler, Erişim: <https://afadem.afad.gov.tr/tr/3880/Do gal-Afetler>
4. Chan E., Kim J.,(2011). Chronic health needs immediately after natural disasters in middle-income countries: the case of the 2008 Sichuan, China earthquake. *European Journal of Emergency Medicine.*18(2):111–114,APR,2011 Erişim:<https://www.ncbi.nlm.nih.gov/pubmed/20679898> Doi: 10.1371/currents.dis.d142f36b6f5eeaca806d-95266b20fed1f
5. Crozier M., Dee M. Critical Literature Review: Disaster Support and the Resource Needs of Marginalised Children and Young People with Disabilities from Diverse Cultural Backgrounds. [(accessed on 20 September 2017)];2016 Available online: <https://eprints.qut.edu.au/107587/>
6. Crunch C.(2018) Natural disasters in 2017:Lower Mortality, Higher Cost. March 2018, Issue No:50 Erişim: <https://www.emdat.be/#pager>
7. Davies A., Blakeley A.G.H. & Kidd C. (2001) Human Physiology. Churchill Livingstone, Edinburgh.
8. Deal B.J., Fountain R.A., Russell-Broaddus C.A. & StanleyHermanns M. (2006) Challenges and opportunities of nursing care in special-needs shelters. *Disaster Management & Response* 4, 100–105. Doi: 10.1159/000355660
9. Dolatabadi Z. , Seyedin H. , Aryankhesal A.,(2016). Policies on Protecting Vulnerable People During Disasters in Iran: A Document Analysis. *Trauma Mon.* 2016 Jun 6;21(3) Erişim:<https://www.ncbi.nlm.nih.gov/pubmed/27921019> Doi: 10.5812/traumamon.31341
10. Duggan S., Deeny P., Spelman R., Vitale CT.(2010). Perceptions of older people on disaster response and preparedness. 2010 Mar;5(1):71 Erişim:<https://www.ncbi.nlm.nih.gov/pubmed/20925760> Doi: 10.1111/j.1748-3743.2009.00203.x.
11. Eisenman DP, Cordasco KM, Asch S, Golden JF, Glik D. Disaster planning and risk communication with vulnerable communities: lessons from Hurricane Katrina. *Am J Public Health.* 2007 Apr;97 Suppl 1:S109-15. PubMed PMID:17413069. Doi: 10.2105/AJPH.2005.084335
12. Elder K., Xirasagar S., Miller N., Bowen S.A., Glover S. & Piper C.(2007) African Americans' decisions not to evacuate New Orleans before Hurricane Katrina: a qualitative study. *American Journal of Public Health* 97, S124–S129. Doi: 10.2105/AJPH.2006.100867
13. Ergünay O.(2009).“Afet Yönetimi Nedir? Nasıl Olmalıdır?”, s.264; Ergünay O.(2009). “Afet Yönetimi”, s.(14–15);Ergünay O.(2009). “ Acil Yardım Planlaması ve Afet Yönetimi”, s.10. Erişim:<https://onlinelibrary.wiley.com/doi/epdf/10.1111/nhs.12133>
14. Evans J.,(2009). Mapping the vulnerability of older persons to disasters. *Int J Older People Nurs.* 2010 Mar;5(1):63-70 Erişim: <https://www.ncbi.nlm.nih.gov/pubmed/20925759> Doi: 10.1111/j.1748-3743.2009.00205.x.

15. Golzari SE, Ghabili K. Geriatric issues after recent twin earthquakes in Northwest Iran. *J Am Geriatr Soc.* 2013 Feb;61(2):308-9. PubMed PMID:23405935. Doi: 10.1371/currents.dis.39b14d88c93fe04ef1a2ce180b24f8d1
16. Greenough P.G., Lappi M.D., Hsu E.B., Fink S., Hsieh Y.H., Vu A., Heaton C. & Kirsch T.D. (2008) Burden of disease and health status among Hurricane katrina-displaced persons in shelters. *Annals of Emergency Medicine* 51, 426–432.
17. He W., Goodkind D., Kowal P.(2015). An Aging World: 2015 Census Bureau. Erişim:<https://www.census.gov/content/dam/Census/library/publications/2016/.../> p:95-16-1.pdf.
18. Inoue K. (2006) Venous thromboembolism in earthquake victims. *Disaster Management & Response* 4, 25–27. Doi: 10.1016/j.dmr.2005.09.001
19. Jakeway CC., LaRosa G, Cary A, Schoenfisch S.(2008). The role of publichealth nurses in emergency preparedness and response: a positionpaper of the Association of State and Territorial Directors ofNursing. *Public Health Nurs.* 2008; 25: 353–361. Doi: 10.1111/j.1525-1446.2008.00716.x.
20. Jhung M.A., Shehab N., Rohr-Allegrini C., Pollock D.A., Sanchez R., Guerra F. & Jernigan D.B. (2007) Chronic disease and disasters:medication demands of Hurricane katrina evacuees. *American Journal of Preventive Medicine* 33, 207–210. Doi: 10.1016/j.amepre.2007.04.030
21. Johnson H., Ling C., McBee E.(2015). Multi-disciplinary Care for the Elderly in Disasters: An Integrative Review Vol:30 Issue:1 Erişim: <https://doi.org/10.1017/S1049023X14001241>
22. Kang K.,(2014). Disaster preparedness among vulnerable older adults withchronic diseases: Results from a cross-sectional study inIncheon, Korea. *Nursing and Health Sciences* (2014), 16, 46–51 Doi: 10.1111/nhs.12133
23. Kario K., Matsuo T., Shimada K. & Pickering T.G. (2001) Factors associated with the occurrence and magnitude of earthquakeinduced increases in blood pressure. *The American Journal of Medicine* 111, 379–384. [https://doi.org/10.1016/S0002-9343\(01\)00832-4](https://doi.org/10.1016/S0002-9343(01)00832-4)
24. Keeney G.,(2004). Disaster preparedness: what do we do now? *J Midwifery Womens Health.* 2004 Jul-Aug;49(4 Suppl 1):2-6.Erişim: <https://www.ncbi.nlm.nih.gov/pubmed/15236697> Doi: 10.1016/j.jmwh.2004.05.003
25. Kirizuka K., Nishizaki H., Kohriyama K., Nukata O., Arioka Y., Motobuchi M., Yoshiki K., Tatezumi K., Kondo T. & Tsuboi S.(1997) Influences of the great Hanshin-Awaji earthquake on glycemic control in diabetic patients. *Diabetes Research and Clinical Practice* 36, 193–196. [https://doi.org/10.1016/S0168-8227\(97\)00030-2](https://doi.org/10.1016/S0168-8227(97)00030-2)
26. Klinenberg, E. (2002). Heat Wave: A Social Autopsy of Disaster. Chicago, IL: The University of Chicago Press. ISBN: 9780226443218.
27. Loke A., Lai C., Fung O.,(2012). At-home disaster preparednessof elderly people in Hong Kong . *Geriatr Gerontol Int* 2012; 12: 524-531. Erişim:<https://onlinelibrary.wiley.com/doi/epdf/10.1111/j.1447-0594.2011.00778.x>
28. Mecocci P, Di Iorio AD, Pezzuto S, Rinaldi P, Simonelli G, Maggio D, Montesperelli P, Longo A, Cherubini A, Chiarappa N, Abate G, Senin U. Impact of the earthquake of September 26, 1997 in Umbria, Italy on the socioenvironmental and psychophysical conditions of an elderly population. *Aging (Milano)*. 2000 Aug;12(4):281-6. PubMed PMID:11073347.
29. Mokdad AH., Mensah GA., Posner SF., Reed E., Simoes EJ., Engelgau MM.(2005). When chronic conditions become acute: prevention and control of chronic disea-

- ses and adverse health outcomes during natural disasters. *Prev. Chronic Dis.* 2005; 2 (SpecIssue):1–4. Erişim: http://www.cdc.gov/pcd/issues/2005/nov/05_0201.htm PMID: 16263037
30. Mori K., Ugai K., Nonami Y., Kirimura T., Kondo C., Nakamura T., Motoki E. & Kaji H. (2007) Health needs of patients with chronic diseases who lived through the great Hanshin earthquake. *Disaster Management & Response* 5, 8–13. Doi: 10.1016/j.dmr.2006.11.002
31. Peter A. Leggat, Ranking and prioritizing strategies for reducing mortality and morbidity from Press F.,Hamilton R.(1999). “Mitigating Natural Disasters”, *Science*, Vol. 284, Issue:5422, s. 1927.
32. Ringel J.S., Chandra A., Williams M., Ricci K.A., Felton A., Adamson D.M., Weden M.M., Huang M. Enhancing Public Health Emergency Preparedness for Special Needs Populations: A Toolkit for State and Local Planning and Response. *Rand Health Q.* 2011;1:19. PMID: 28083206
33. Rosenkoetter MM, Covian EK, Bunting S, Cobb BK, Fugate-Whitlock E. Disaster evacuation: an exploratory study of older men and women in Georgia and North Carolina. *J Gerontol Nurs.* 2007 Dec;33(12):46-54. PubMed PMID:18183747.
34. Ryan, B. J., Franklin, R. C., Burkle, F. M., Smith, E. C., Aitken, P., Watt, K., & Leggat, P. A. (2018). Ranking and prioritizing strategies for reducing mortality and morbidity from noncommunicable diseases post disaster: An Australian perspective. *International Journal of Disaster Risk Reduction*, 27, 223-238. <https://doi.org/10.1016/j.ijdrr.2017.10.009>
35. Semenza JC, Rubin CH, Falter KH, Selanikio JD, Flanders WD, Howe HL, Wilhelm JL. Heat-related deaths during the July 1995 heat wave in Chicago. *N Engl J Med.* 1996 Jul 11;335(2):84-90. PubMed PMID:8649494. Doi: 10.1056/NEJM199607113350203
36. Stough L.M. World Report on Disability, Intellectual Disabilities, and Disaster Preparedness: Costa Rica as a Case Example. *J. Policy Pract. Intellect. Disabil.* 2015;1:138–146. Doi: 10.1111/jppi.12116. doi: 10.1111/jppi.12116
37. Suzuki S., Sakamoto S., Koide M., Fujita H., Sakuramoto H., Kuroda T., Kintaka T. & Matsuo T. (1997) Hanshin-Awaji earthquake as a trigger for acute myocardial infarction. *American Heart Journal* 134, 974–977. PMID: 9398112
38. TÜİK.(2017).İstatistiklerleYaşlılar,2017. Erişim:<http://www.tuik.gov.tr/PreHaber-Bultenleri.do?id=27595>
39. Twigg J. Disaster Risk Reduction: Mitigation and Preparedness in Development and Emergency Programming, Humanitarian Practice Network. Overseas Development Institute; London, UK: 2004. Erişim:www.odihpn.org/documents/gpr9/part%201.pdf
40. United Nations Hyogo Framework for Action 2005–2015, Building the Resilience of Nations and Communities toDisasters.[(accessed on 30 September 2017)];2005 Available online: <https://www.unisdr.org/we/inform/publications/1037>.
41. Watanabe H., Kodama M., Tanabe N., Nakamura Y., Nagai T., SatoM., Okabe M. & Aizawa Y. (2008) Impact of earthquakes on risk for pulmonary embolism. *International Journal of Cardiology* 129,152–154. <https://doi.org/10.1016/j.ijcard.2007.06.039>
42. Wisner B., Gaillard J., Kelman I., editors. *Disaster Risk*. Routledge; London, UK: 2015.
43. Woersching J.C. & Snyder A.E. (2003) Earthquakes in El Salvador: a descriptive study of health concerns in a rural community and the clinical implications, part i. *Disaster Management & Response* 1,105–109. Doi: 10.1016/j.dmr.2003.12.007

44. Wu J.,Xiao J., Li T., Li X., Sun H.,Chow E.,Lu Y.,Tian T.,Wang Q.,Zhuang X., Zhang L.(2015). A cross-sectional survey on the health status and the health-related quality of life of the elderly after flood disaster in Bazhong city, Sichuan, China. Wu et al. BMC Public Health(2015)15:163 Erişim:<https://www.ncbi.nlm.nih.gov/pubmed/25884807> Doi: 10.1186/s12889-015-1402-5.
45. Yoo M, Lee M., Tullmann D.(2016). Perceptions of disaster preparedness among older people in South Korea. Int J Older People Nurs.2016 Mar;11(1):18-23. Erişim:<https://www.ncbi.nlm.nih.gov/pubmed/26179452>
46. Zhang Z, Shi Z, Wang L, Liu M. Post-traumatic stress disorder, anxiety and depression among the elderly: a survey of the hard-hit areas a year after the Wenchuan earthquake. Stress Health. 2012 Feb;28(1):61-8. PubMed PMID:22259159. Doi: 10.1002/stmi.1403