

BÖLÜM 9

TATARCİK HUMMASI

Özge ÇAYDAŞI¹

Giriş

Tatarcık humması etkeni Sandfly fever virüs (SFV) *Bunyaviridae* ailesi *Phlebovirus* cinsine ait segmentli negatif zincirli RNA virüsüdür (1). SFV'nin en sık görülen serotipleri arasında Sandfly Sicilian virus (SFSV), Sandfly Cyprus virus (SFCV), Sandfly Naples virus (SFNV) ve Toscana virus (TOSV) sayılabilir. SFV başta *Phlebotomus papatasi* olmak üzere *Sergentomyia* ve *Lutzomyia* türü tatarcık sineklerinin ısırığı ile bulaşmaktadır. Orta Doğu, Avrupa, Afrika ve Asya kıtalarının çevrelediği Akdeniz havzasında yaygın olarak görülmektedir (2). Tatarcık humması, üç gün ateşi, flebotomus ateşi ve papatasi ateşi olarak da adlandırılmaktadır (3).

Epidemiyoloji

SFNV ilk kez 1924 yılında İtalya Napoli'de görülen salgında tespit edilmiştir. SFSV ise 1943 yılında

II. Dünya savaşında görev yapan İtalyan askerlerinden izole edilmiştir (4). TOSV ilk kez 1971 yılında İtalya'nın Toscana bölgesinde ve SFCV serotipi ise Kıbrıs'ta 1985 yılında İsveçli askerlerde tespit edilmiştir, 2007 eylülde Bağdat'da görev yapan Amerikan askerler arasında ateşli hastalık görülmesi üzerine tetkik edilen 14 hastanın 13'ünde SFNV pozitif saptanmıştır (5,6). Ülkemizde ilk kez

¹ Uzm. Dr., Sancaktepe Şehit Prof. Dr. İlhan Varank Eğitim Araştırma Hastanesi, Enfeksiyon Hastalıkları ve Klinik Mikrobiyoloji Kliniği, ozgecaydasi@hotmail.com, ORCID iD: 0000-0003-2804-3101

KAYNAKÇA

1. Tesh RB. The genus Phlebovirus and its vectors. *Annu Rev Entomol* [Internet]. 1988 Jan [cited 2023 Aug 4];33(1):169–81. Available from: <https://pubmed.ncbi.nlm.nih.gov/2829707/>
2. Depaquit J, Grandadam M, Fouque F, Andry PE, Peyrefitte C. Arthropod-borne viruses transmitted by Phlebotomine sandflies in Europe: A review. *Eurosurveillance* [Internet]. 2010 Mar 11 [cited 2023 Aug 4];15(10):40–7. Available from: <https://www.eurosurveillance.org/content/10.2807/ese.15.10.19507-en>
3. Özkaraman Y, Seyman D, Seremet-Keskin A, Deniz M, Adıgüzel Z. Vector-Borne Endemic Viral Infection in Antalya Region: Sandfly Fever. *KLİMİK Derg.* 2022;35(4):363–6.
4. Sabin AB. Experimental studies on Phlebotomus (pappataci, sandfly) fever during World War II. *Arch Gesamte Virusforsch* [Internet]. 1951 Aug [cited 2023 Aug 4];4(4):367–410. Available from: <https://pubmed.ncbi.nlm.nih.gov/13249477/>
5. Ayhan N, Charrel RN. An update on Toscana virus distribution, genetics, medical and diagnostic aspects. *Clin Microbiol Infect* [Internet]. 2020 Aug 1 [cited 2023 Aug 4];26(8):1017–23. Available from: <https://pubmed.ncbi.nlm.nih.gov/31904562/>
6. Niklasson B, Eitrem R. Sandfly fever among Swedish UN troops in Cyprus. *Lancet* [Internet]. 1985 May 25 [cited 2023 Aug 4];1(8439):1212. Available from: <https://pubmed.ncbi.nlm.nih.gov/2860405/>
7. Tesh RB, Saidi S, Gajdamovic JS, Rodhain F, Vesenjaj-Hirjan J. Serological studies of the epidemiology of sandfly fever in the Old World. *Bull World Health Organ* [Internet]. 1976 [cited 2023 Aug 4];54(6):663. Available from: [/pmc/articles/PMC2366583/?report=abstract](https://pubmed.ncbi.nlm.nih.gov/13249477/)
8. Guler S, Guler E, Caglayik DY, Kokoglu OF, Ucmak H, Bayrakdar F, et al. A sandfly fever virus outbreak in the East Mediterranean region of Turkey. *Int J Infect Dis* [Internet]. 2012 Apr [cited 2023 Aug 4];16(4). Available from: <https://pubmed.ncbi.nlm.nih.gov/22293495/>
9. (PDF) [Sandfly fever outbreak in a province at Central Anatolia, Turkey] [Internet]. [cited 2023 Aug 4]. Available from: https://www.researchgate.net/publication/47730380_Sandfly_fever_outbreak_in_a_province_at_Central_Anatolia_Turkey
10. Çarhan A, Uyar Y, Özkaya E, Ertek M, Dobler G, Dilcher M, et al. Characterization of a sandfly fever Sicilian virus isolated during a sandfly fever epidemic in Turkey. *J Clin Virol* [Internet]. 2010 Aug [cited 2023 Aug 4];48(4):264–9. Available from: <https://pubmed.ncbi.nlm.nih.gov/20579934/>
11. Wuerth JD, Weber F. NSs of the mildly virulent sandfly fever Sicilian virus is unable to inhibit interferon signaling and upregulation of interferon-stimulated genes. *J Gen Virol* [Internet]. 2021 [cited 2023 Aug 4];102(11):1676. Available from: [/pmc/articles/PMC8742993/](https://pubmed.ncbi.nlm.nih.gov/34487075/)
12. Riccò M, Peruzzi S. Epidemiology of Toscana Virus in Italy (2018–2020), a summary of available evidences. *Acta Biomed* [Internet]. 2021 Sep 2 [cited 2023 Aug 4];92(4). Available from: <https://pubmed.ncbi.nlm.nih.gov/34487075/>
13. Dionisio D, Esperti F, Vivarelli A, Valassina M. Epidemiological, clinical and laboratory aspects of sandfly fever. *Curr Opin Infect Dis* [Internet]. 2003 Oct [cited 2023 Aug 4];16(5):383–8. Available from: <https://pubmed.ncbi.nlm.nih.gov/14501989/>

14. Ergünay K, Tufan ZK. Overview of West Nile Virus and Sandfly-borne Phlebovirus Infections in Anatolia. *Journal of Microbiology and Infectious Diseases* [Internet]. 2014 Jun 1 [cited 2023 Aug 21];4(5):22–31. Available from: <https://dergipark.org.tr/pub/jmid/issue/9947/123053>
15. Di Nicuolo G, Pagliano P, Battisti S, Starace M, Mininni V, Attanasio V, et al. Toscana virus central nervous system infections in southern Italy. *J Clin Microbiol* [Internet]. 2005 Dec [cited 2023 Aug 4];43(12):6186–8. Available from: <https://pubmed.ncbi.nlm.nih.gov/16333126/>
16. Becker M, Zielen S, Schwarz TF, Linde R, Hofmann D. [Pappataci fever]. *Klin Padiatr* [Internet]. 1997 [cited 2023 Aug 4];209(6):377–9. Available from: <https://pubmed.ncbi.nlm.nih.gov/9445923/>
17. Lesho EP, Ludwig G V., Wortmann G. Encephalitis and sandfly fever (Sicilian) virus infection: Case report and review of the literature. *Infectious Diseases in Clinical Practice* [Internet]. 2004 Nov [cited 2023 Aug 4];12(6):352–4. Available from: https://www.researchgate.net/publication/232197126_Encephalitis_and_Sandfly_Fever_Sicilian_Virus_Infection_Case_Report_and_Review_of_the_Literature
18. Dersch R, Sophocleous A, Cadar D, Emmerich P, Schmidt-Chanasit J, Rauer S. Toscana virus encephalitis in Southwest Germany: a retrospective study. *BMC Neurol* [Internet]. 2021 Dec 1 [cited 2023 Aug 4];21(1):495. Available from: <https://pubmed.ncbi.nlm.nih.gov/36693482/>
19. Cusi MG, Savellini GG. Diagnostic tools for Toscana virus infection. *Expert Rev Anti Infect Ther* [Internet]. 2011 Jul [cited 2023 Aug 4];9(7):799–805. Available from: <https://pubmed.ncbi.nlm.nih.gov/21810052/>
20. Toscana virus infection [Internet]. [cited 2023 Aug 4]. Available from: <https://www.ecdc.europa.eu/en/toscana-virus-infection>