

## Bölüm 5

### MİGREN VE TEDAVİ YAKLAŞIMI

**Mesude TÜTÜNCÜ<sup>1</sup>**

#### GİRİŞ

Migren, baş ağrısı atakları, geri dönüslü nörolojik ve sistemik bulgularla karakterize kronik nörolojik bir hastaliktır. Migrenin bir yıllık prevalansı genel populasyonda %12, yaşam boyu prevalansı kadınlarda %33 ve erkeklerde %12'dir (Lipton, 2007a, 2011). Migren erişkin dönemde kadınlarda belirgin derecede fazla görülmeye rağmen, prepubertal dönemde migren başlangıç oranı erkeklerde daha fazladır (Lipton 2007b, Bille 1997). Üçüncü ve beşinci dekat arasında sık gözlenirken orta yaştan sonra kısmi olarak daha az gözlenir. Migren hastaları arasında % 20'si iki veya üç gün süren atak geçirir. % 1 hastada en az 1 gün migren baş ağrısı çekmektedir (Stewart 1996). Dünya sağlık örgütü verilerine göre migren dünyada üçüncü en sık sağlık problemi olup, ikinci en sık özürlülük verici nörolojik bozukluktur.

#### MİGRENİN KLINİK PRESZENTASYONU

Migren izole bir baş ağrısı olarak düşünülmemektedir. Baş ağrısı duysal ve bedensel semptomlara eşlik eden bir semptomdur. Migren atağı 4 evreden oluşmaktadır, premonitory evre, aura evresi, baş ağrısı evresi ve postdromal evre. Premonitory evre, ağrı başlangıcından veya auradan saatler hatta günler önce başlayabilir (Gin 2003). Premonitory evrede gözlenen başlıca semptomlar çok değişken olmakla beraber başlıcaları; yorgunluk, konsantrasyon güçlüğü ve boyun sertliğidir.

Baş ağrısı pik süreleri kısa olan hasta gurubunda etkin ve hızlı tedavi yapabilmek için bu semptomaları tanımak oldukça önemlidir.

Migren hastalarının yaklaşık üçte birinde aura adı verilen ağrı başlamadan önce ortaya çıkan geri dönüslü nörolojik bozukluklar vardır. En yaygın aura, auralı hastaların % 90'ından fazlasında ortaya çıkan görsel auradır. En yaygın gözlenen görsel auralar skotom, şimşek benzeri lezyonlar ve teikopsidir (Rus-

<sup>1</sup> Uzman Doktor, Bakırköy Prof. Dr. Mazhar Osman Ruh ve Sinir Hastalıkları Hastanesi, mesude-ozerden@yahoo.com

## KAYNAKLAR

- Ayata C, Jin H, Kudo C, Dalkara T, Moskowitz MA. Suppression of cortical spreading depression in migraine prophylaxis. *Ann Neurol* 2006; **59**: 652–61.
- Anderson TR, Andrew RD: Spreading depression: imaging and blockade in the rat neocortical brain slice. *J Neurophysiol* 2002; **88**(5): 2713-25.
- Barbanti P, Aurilia C, Dall'Armi V, Egeo G, Fo L, Bonassi S. The phenotype of migraine with unilateral cranial autonomic symptoms documents increased peripheral and central trigeminal sensitization. A case series of 757 patients. *Cephalgia* 2016; **36**: 1334–40.
- Bartsch T, Goadsby PJ. The trigeminocervical complex and migraine: current concepts and synthesis. *Curr Pain Headache Rep* 2003; **7**: 371–76.
- Bille B. A 40year followup of school children with migraine. *Cephalgia* 1997; **17**: 488–91
- Bolay H, Reuter U, Dunn AK, Huang Z, Boas DA, Moskowitz MA. Intrinsic brain activity triggers trigeminal meningeal afferents in a migraine model. *Nat Med*. 2002; **8**: 136–142
- Burstein R, Collins B, Jakubowski M. Defeating migraine pain with triptans: a race against the development of cutaneous allodynia. *Ann Neurol* 2004; **55**: 19–26
- Calhoun AH, Ford S, Millen C, Finkel AG, Truong Y, Nie Y. The prevalence of neck pain in migraine. *Headache* 2010; **50**: 1273–77.
- Cui Y, Kataoka Y, Li QH, Yokoyama C, Yamagata A, Mochizuki-Oda N, Watanabe J, Yamada H, Watanabe Y: Targeted tissue oxidation in the cerebral cortex induces local prolonged depolarization and cortical spreading depression in the rat brain. *Biochem Biophys Res Commun* 2003; **300**(3): 631-6.
- Diener HC, Dodick DW, Goadsby, Lipton RB, Olesen J, Silberstein SD. Chronic migraine—classification, characteristics and treatment. *Nat Rev Neurol* 2012; **8**: 162–71
- GBD 2015 Disease and Injury Incidence and Prevalence Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet* 2016; **388**(): 1545–602
- Ginn NJ, Ruggiero L, Lipton RB, et al. Premonitory symptoms in migraine: an electronic diary study. *Neurology* 2003; **60**: 935–40.
- Ginn NJ, Lipton RB, Silberstein S, Defeisit D, Olesen J, Goadsby PJ. The migraine postdrome: an electronic diary study. *Neurology* 2016; **87**: 309–13.
- Goadsby PJ, Holland PR, MartinsOliveira M, Ho mann J, Schankin C, Akerman S. Pathophysiology of migraine: a disorder of sensory processing. *Physiol Rev* 2017; **97**: 553–622
- Gori S, Lucchesi C, Balacci F, Bonuccelli U. Preferential occurrence of attacks during night sleep and/or upon awakening negatively affects migraine clinical presentation. *Funct Neurol* 2015; **30**: 119–23.
- Hansen JM, Lipton RB, Dodick DW, et al. Migraine headache is present in the aura phase: a prospective study. *Neurology* 2012; **79**: 2044–49.
- Hansen JM, Goadsby PJ, Charles AC. Variability of clinical features in attacks of migraine with aura. *Cephalgia* 2016; **36**: 216–24.
- Holroyd KA, Cottrell CK, O'Donnell FJ, et al. Effect of preventive (beta blocker) treatment, behavioural migraine management, or their combination on outcomes of

- optimised acute treatment in frequent migraine: randomised controlled trial. BMJ 2010; <sup>[1]</sup>341: c4871
- International Headache Society. The international classification of headache disorders, 3rd edn. Cephalgia 2018; 38: 1–211.
- Kelman L. Pain characteristics of the acute migraine attack. Headache 2006; 46: 942–53.
- Kelman L, Rains JC. Headache and sleep: examination of sleep <sup>[1]</sup>patterns and complaints in a large clinical sample of migraineurs. <sup>[1]</sup>2005; 45: 904–10.
- Kraig RP, Nicholson C. Extracellular ionic variations during spreading depression. Neuroscience. 1978;3:1045–1059.
- Lipton RB, Bigal ME, Diamond M, Freitag F, Reed ML, Stewart WF. Migraine prevalence, disease burden, and the need for preventive therapy. Neurology. 2007;68:343–349
- Lipton RB, Stewart WF, Diamond S, Diamond ML, Reed M. Prevalence and burden of migraine in the United States: Data from the American Migraine Study II. Headache. 2001;41:646-657
- Lipton RB, Bigal ME, Diamond M, et al. Migraine prevalence, disease burden, and the need for preventive therapy. Neurology 2007; 68: 343–49
- Maniyar FH, Sprenger T, Schankin C, Goadsby PJ. The origin of nausea in migraine—a PET study. J Headache Pain 2014; 15: 84.
- Maniyar FH, Sprenger T, Monteith T, Schankin C, Goadsby PJ. Brain activations in the premonitory phase of nitroglycerin-triggered migraine attacks. Brain 2014; 137: 232–41.
- Nicholson RA, Buse DC, Andrasik F, Lipton RB. Nonpharmacologic treatments for migraine and tensiontype headache: how to choose and when to use. Curr Treat Options Neurol 2011; 13: 28–40.
- Noseda R, Burstein R. Migraine pathophysiology: anatomy of the trigeminovascular pathway and associated neurological symptoms, cortical spreading depression, sensitization and modulation of pain. Pain 2013; 154 (suppl 1): S44–53.
- Obrenovitch TP, Urenjak J, Wang M. Nitric oxide formation during cortical spreading depression is critical for rapid subsequent recovery of ionic homeostasis. J Cereb Blood Flow Metab. 2002;22:680–688
- Pietrobon D, Moskowitz MA. Pathophysiology of migraine. <sup>[1]</sup>Annu Rev Physiol 2013; 75: 365–91.
- Quintela E, Castillo J, Muñoz P, Pascual J. Premonitory and <sup>[1]</sup>resolution symptoms in migraine: a prospective study in <sup>[1]</sup>100 unselected patients. Cephalgia 2006; 26: 1051–60.
- Russell MB, Olesen J. A nosographic analysis of the migraine aura in <sup>[1]</sup>a general population. Brain 1996; 119: 355–61.
- Schulte LH, May A. The migraine generator revisited: continuous scanning of the migraine cycle over 30 days and three spontaneous attacks. Brain 2016; 139: 1987–93.
- Seng EK, Holroyd KA. Behavioral migraine management modi es behavioral and cognitive coping in people with migraine. Headache 2014; 54: 1470–83
- Silberstein S, TfeltHansen P, Dodick DW, et al. Guidelines for <sup>[1]</sup>controlled trials of prophylactic treatment of chronic migraine in <sup>[1]</sup>adults. Cephalgia 2008; 28: 484–95
- Silberstein SD. Migraine symptoms: results of a survey of <sup>[1]</sup>selfreported migraineurs. Headache 1995; 35: 387–96.
- Somjen GG: Mechanisms of spreading depression and hypoxic spreading depression-like depolarization. Physiol Rev 2001; 81(3): 1065-96

*Güncel Nöroloji ve Nöroşirürji Çalışmaları I*

- Stewart WF, Lipton RB, Celentano DD, Reed ML. Prevalence of migraine headache in the United States: relation to age, income, race and other sociodemographic factors. JAMA 1992;267:64-9.
- Worthington I, Pringsheim T, Gawel MJ, et al. Canadian Headache Society Guideline: acute drug therapy for migraine headache.<sup>[1]</sup>Can J Neurol Sci 2013; 40 (suppl 3): S1-80
- Zhang X, Levy D, Noseda R, Kainz V, Jakubowski M, Burstein R. Activation of Meningeal Nociceptors by Cortical Spreading Depression: Implications for Migraine with Aura. J Neurosci. 2010;30:8807–8814