

Bölüm 6

BAŞAĞRILARINDA GİRİŞİMSEL YÖNTEMLER

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1.GİRİŞ

Başağrılarında primer ya da sekonder fark etmeksizin, medikal tedaviden yeterli cevap alınmadığı durumlarda girişimsel yöntemlere başvurulmaktadır. En sık kullanıldığı durumlar, servikojenik başağrısı, kronik migren, küme tipi başağrısı, düşük BOS basınçlı başağrısı, Trigeminal nevralsi, Glossofaringeal nevralsi, Oksipital nevralsi, ağrılı kranial nöropatilerdir (1).

Girişimsel yöntemler genellikle periferik sinir ve ganglion blokajları başlığı altında toplanmasına rağmen, periferik sinir stimülasyonu ve Gasser radyofrekans ablasyon gibi nöromodülatif yöntemler, onabotulinum toksin A enjeksiyonları da seçilmiş hastalarda endikedir.

Uluslar arası Başağrısı Topluluğu'nun (İHS) son başağrısı sınıflaması olan ICHD-3 'e göre Primer , Sekonder, Nöropatiler-Fasial Ağrılar ve Diğer Başağrılar olarak 4 ana bölüme ayırdığı başağrılarında her bölümde girişimsel yöntemlerin kendisine az ya da çok yapılan çalışmalardaki kanıt düzeyine göre yer bulması dikkat çekicidir. Hatta sınıflamanın 4, bölümü olan ekler bölümünde sınıflanan başağrılarında bile girişimsel yöntemler kullanılmaktadır.

Uygulanan Girişimsel Yöntemleri, onabotulinum toksin A enjeksiyonları (31 noktaya, 155 ünite olarak uygulanan kronik migrende endikasyon almış bir protokoldür) dışında, uygulandığı başağrısı tipleriyle beraber başlıklar altında sınıflamak daha uygundur.

2. GİRİŞİMSEL YÖNTEMLER

2.1. Sinir ve Ganglion Blokajları

Primer başağrısı olan hastalar genellikle trigeminal innervasyona sahip frontal saha ya da oksipital innervasyona sahip posterior alanda ağrıdan şikayetçidirler. Bu durum trigeminoservikal kompleksdeki (TCC) servikal ve trigeminal afferentlerin anatomik bağlantısına bağlıdır. Oksipital ya da trigeminal sinir dallarını hedefleyen blokajlarında TCC üzerinden etkili olduğu düşünülmektedir (2).

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KAYNAKLAR

1. İNAN N. Baş Ağrısında Sinir Blokajları. Türkiye Klinikleri Neurology-Special Topics. 2018;11(1):120-4.
2. Miller S, Lagrata S, Matharu M. Multiple cranial nerve blocks for the transitional treatment of chronic headaches. Cephalalgia : an international journal of headache. 2019 May 13;333102419848121. PubMed PMID: 31084198. Epub 2019/05/16. eng.
3. Afridi SK, Shields KG, Bhola R, Goadsby PJ. Greater occipital nerve injection in primary headache syndromes--prolonged effects from a single injection. Pain. 2006 May;122(1-2):126-9. PubMed PMID: 16527404. Epub 2006/03/11. eng.
4. Wolfe RM, Pomerantz J, Miller DE, Weiss-Coleman R, Solomonides T. Obstructive Sleep Apnea: Preoperative Screening and Postoperative Care. The Journal of the American Board of Family Medicine. 2016;29(2):263-75.
5. Inan LE, Inan N, Karadas O, Gul HL, Erdemoglu AK, Turkel Y, et al. Greater occipital nerve blockade for the treatment of chronic migraine: a randomized, multicenter, double-blind, and placebo-controlled study. Acta neurologica Scandinavica. 2015 Oct;132(4):270-7. PubMed PMID: 25765043. Epub 2015/03/15. eng.
6. Flamer D, Alakkad H, Soneji N, Tumber P, Peng P, Kara J, et al. Comparison of two ultrasound-guided techniques for greater occipital nerve injections in chronic migraine: a double-blind, randomized, controlled trial. Regional anesthesia and pain medicine. 2019 May;44(5):595-603. PubMed PMID: 30886069. Epub 2019/03/20. eng.
7. Ashkenazi A, Young WB. The effects of greater occipital nerve block and trigger point injection on brush allodynia and pain in migraine. Headache. 2005 Apr;45(4):350-4. PubMed PMID: 15836572. Epub 2005/04/20. eng.
8. Ambrosini A, Vandenheede M, Rossi P, Aloj F, Sauli E, Pierelli F, et al. Suboccipital injection with a mixture of rapid- and long-acting steroids in cluster headache: a double-blind placebo-controlled study. Pain. 2005 Nov;118(1-2):92-6. PubMed PMID: 16202532. Epub 2005/10/06. eng.
9. Leroux E, Valade D, Taifas I, Vicaut E, Chagnon M, Roos C, et al. Suboccipital steroid injections for transitional treatment of patients with more than two cluster headache attacks per day: a randomised, double-blind, placebo-controlled trial. The Lancet Neurology. 2011 Oct;10(10):891-7. PubMed PMID: 21903477. Epub 2011/09/10. eng.
10. Leroux E, Ducros A. Occipital injections for trigemino-autonomic cephalalgias: evidence and uncertainties. Current pain and headache reports. 2013 Apr;17(4):325. PubMed PMID: 23443504. Epub 2013/02/28. eng.
11. Niraj G, Critchley P, Kodivalasa M, Dorgham M. Greater Occipital Nerve Treatment in the Management of Spontaneous Intracranial Hypotension Headache: A Case Report. Headache. 2017 Jun;57(6):952-5. PubMed PMID: 28466552. Epub 2017/05/04. eng.
12. Gupta R, Fisher K, Pyati S. Chronic Headache: a Review of Interventional Treatment Strategies in Headache Management. Current pain and headache reports. 2019 Jul 29;23(9):68. PubMed PMID: 31359257. Epub 2019/07/31. eng.
13. Mojica J, Mo B, Ng A. Sphenopalatine Ganglion Block in the Management of Chronic Headaches. Current pain and headache reports. 2017 Jun;21(6):27. PubMed PMID: 28432602. Epub 2017/04/23. eng.
14. Crespi J, Bratbak D, Dodick DW, Matharu M, Jamtoy KA, Tronvik E. Pilot Study of Injection of OnabotulinumtoxinA Toward the Sphenopalatine Ganglion for the Treatment of Classical Trigeminal Neuralgia. Headache. 2019 Jul 25. PubMed PMID: 31342515. Epub 2019/07/26. eng.
15. Raj P, Lou L, Erdine S, Staats P. Sphenopalatine ganglion block and neurolysis. Radiographic imaging for regional anesthesia and pain management 1st ed Philadelphia, PA: Churchill Livingstone. 2003.
16. Narouze S, Kapural L, Casanova J, Mekhail N. Sphenopalatine ganglion radiofrequency ablation for the management of chronic cluster headache. Headache. 2009 Apr;49(4):571-7. PubMed PMID: 18783451. Epub 2008/09/12. eng.

17. Akbas M, Gunduz E, Sanli S, Yegin A. Sphenopalatine ganglion pulsed radiofrequency treatment in patients suffering from chronic face and head pain. *Braz J Anesthesiol.* 2016 Jan-Feb;66(1):50-4. PubMed PMID: 26768930. Epub 2016/01/16. eng.
18. Sluijter ME, van Kleef M. Characteristics and mode of action of radiofrequency lesions. *Current Review of pain.* 1998;2(3):143-50.
19. Cosman ER, Nashold BS, Ovelman-Levitt J. Theoretical aspects of radiofrequency lesions in the dorsal root entry zone. *Neurosurgery.* 1984;15(6):945-50.
20. Erdine S, Ozyalcin NS, Cimen A, Celik M, Talu GK, Disci R. Comparison of pulsed radiofrequency with conventional radiofrequency in the treatment of idiopathic trigeminal neuralgia. *European journal of pain.* 2007;11(3):309-13.
21. Bala I. Radiofrequency Thermoablation of the Gasserian Ganglion Versus the Peripheral Branches of the Trigeminal Nerve for Treatment of Trigeminal Neuralgia: A Randomized, Control Trial. *Pain physician.* 2019;22:147-54.
22. Cheng JS, Lim DA, Chang EF, Barbaro NM. A review of percutaneous treatments for trigeminal neuralgia. *Operative Neurosurgery.* 2013;10(1):25-33.
23. Kanpolat Y, Savas A, Bekar A, Berk C. Percutaneous controlled radiofrequency trigeminal rhizotomy for the treatment of idiopathic trigeminal neuralgia: 25-year experience with 1600 patients. *Neurosurgery.* 2001;48(3):524-34.
24. Lee SH, Kim K, Lee S, Lee S, Kim P, Lee M, et al. A Novel Method of Locating Foramen Ovale for Percutaneous Approaches to the Trigeminal Ganglion. *Pain physician.* 2019;22(4):E345-E50.
25. Ho KWD, Przkora R, Kumar S. Sphenopalatine ganglion: block, radiofrequency ablation and neurostimulation—a systematic review. *The journal of headache and pain.* 2017;18(1):118.
26. Salar G, Ori C, Iob I, Fiore D. Percutaneous thermocoagulation for sphenopalatine ganglion neuralgia. *Acta neurochirurgica.* 1987;84(1):24-8.
27. Abd-Elseyed A, Nguyen S, Fiala K. Radiofrequency Ablation for Treating Headache. *Current pain and headache reports.* 2019;23(3):18.
28. Kwak S, Chang MC. Management of refractory chronic migraine using ultrasound-guided pulsed radiofrequency of greater occipital nerve: Two case reports. *Medicine.* 2018;97(45).
29. Cohen SP, Peterlin BL, Fulton L, Neely ET, Kurihara C, Gupta A, et al. Randomized, double-blind, comparative-effectiveness study comparing pulsed radiofrequency to steroid injections for occipital neuralgia or migraine with occipital nerve tenderness. *Pain.* 2015;156(12):2585.
30. Garcia-Ortega R, Edwards T, Moir L, Aziz TZ, Green AL, FitzGerald JJ. Burst Occipital Nerve Stimulation for Chronic Migraine and Chronic Cluster Headache. *Neuromodulation: Technology at the Neural Interface.* 2019.
31. Jürgens TP, Barloese M, May A, Láinez JM, Schoenen J, Gaul C, et al. Long-term effectiveness of sphenopalatine ganglion stimulation for cluster headache. *Cephalalgia.* 2017;37(5):423-34.
32. Hoffmann J, May A. Neuromodulation for the treatment of primary headache syndromes. *Expert review of neurotherapeutics.* 2019;19(3):261-8.