

## Bölüm **27**

# AĞIZ BOYUN BÖLGESİİNDE AĞRIYA NEDEN OLAN KAS İSKELET SİSTEMİ HASTALIKLARI

**Erdal DİLEKÇİ<sup>1</sup>**

## GİRİŞ

Kas iskelet sisteminden kaynaklanan ağrılar içinde ağız boyun bölgesi ağrıları bel ağrısından sonra en sık karşılaşılan yakınmadır (1). Sıklıkla karşılaşılan yakınma olması ve tanıda ileri görüntüleme ve inceleme yöntemleri bulunmasına karşın ağrının nedeni çoğu zaman net olarak saptanamamaktadır. Ağız boyun bölgesinde ağrıya neden olabilecek patolojiler Tablo 1'de özetlenmiştir. Ağız içinde oluşan hastalıklar, dental patolojiler ve temporomandibuler eklem rahatsızlıklar ile ilgili detaylı bilgiler diğer bölümlerde yer aldığından dolayı bu bölümde daha çok boyun bölgesinden kaynaklanan ağrı nedenleri inceleneciktir.

## BOYUN AĞRISI

Boyun omurganın en hareketli kısmı olup esas görevi baş ile gövdeyi bir arada tutmaktadır. Bu hareketli yapısına rağmen beyin ve gövde arasında sinirsel ve vasküler dokular açısından hayatı önemi olan iletişimini sağlar. Servikal omurgayı meydanı getiren yedi vertebra ve boyun etrafında bulunan kaslar omurga hareketlerini kontrol eden yapılardır. Kaslar ve vertebra aralarından çıkan sinir köklerinin sıkışması en sık karşılaşılan ağrı nedenleridir.

İnsanların %50'sinden fazlası hayatlarının bir döneminde ciddi düzeyde boyun ağrısı yaşamaktadır (2). Dental, kranial ve temporomandibuler kaynaklı ağrılar da eklendiğinde bu oran daha da artmaktadır. Yapılan çalışmalarda boyun ağrısı prevalansı % 15-50 arasında bildirilmektedir (2-5). Bu oran kadınlarda ve orta yaşta artmaktadır (2-5). Boyun ağrının kronikleşmesi sıkılıkla karşılaşılan bir problem olup bu durum gerek hastanın yaşam kalitesi gerek sağlık maliyetleri

<sup>1</sup> Uzman Doktor, Bolu Abant İzzet Baysal Üniversitesi İzzet Baysal Fizik Tedavi ve Rehabilitasyon Eğitim ve Araştırma Hastanesi, eraldilekci@gmail.com

laka akılda tutulmalıdır. Yaşlı ve atipik şikayetler tarifleyen hastalarda kas iskelet sistemi muayenesine mutlaka detaylı nörolojik muayene eklenmeli ve gerektiğinde erken tanı ve tedavi için ileri incelemeler yapılmalıdır.

**Anahtar Kelimeler:** Boyun Ağrısı, Fibromiyalji, Miyofasikal Ağrı Sendromu

## KAYNAKLAR

1. Hazard RG. Low back and neck pain diagnosis and treatment. *Am J Phys Med Rehab* 2007;86(1 Suppl):59-68.
2. Fejer R, Kyvik KO, Hartvigsen J. The prevalence of neck pain in the World population: a systematic critical review of the literature. *Eur Spine J.* 2006;15(6):834-848.
3. Hogg-Johnson S, van der Velde G, Carroll LJ, et al; The burden and determinants of neck pain in the general population: results of the Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders. *Spine.* 2008;33(4):39-51.
4. Binder AI. Neck pain. *Clin Evid.* 2008;1103.
5. Fernández-de-las-Peñas C, Hernández-Barrera V, Alonso-Blanco C, et al. Prevalence of neck and low back pain in community-dwelling adults in Spain: a population-based national study. *Spine.* 2011;36(3):213-219.
6. Vasseljen O, Woodhouse A, Bjørngaard JH, Leivseth L. Natural course of acute neck and low back pain in the general population: the HUNT study. *Pain.* 2013;154(8):1237-1244.
7. Vos CJ, Verhagen AP, Passchier J, Koes BW. Clinical course and prognostic factors in acute neck pain: an inception cohort study in general practice. *Pain Med.* 2008;9(5):572-580.
8. Pernold G, Mortimer M, Wiktorin C, Tornqvist EW, Vingård E; Musculoskeletal Intervention Center-Norrtälje Study Group. Neck/shoulder disorders in a general population: natural course and influence of physical exercise; a 5-year followup. *Spine.* 2005;30(13):363-368.
9. Christensen JO, Knardahl S. Time-course of occupational psychological and social factors as predictors of new-onset and persistent neck pain: a three-wave prospective study over 4 years. *Pain.* 2014;155(7):1262-1271.
10. Cohen SP. Epidemiology, diagnosis and treatment of neck pain. *Mayo Clin Proc.* 2015;90(2):284-299. Doi: 10.1016/j.mayocp.2014.09.008.
11. Chi LM, Lin LM, Chen CL, et al. The effectiveness of cupping therapy on relieving chronic neck and shoulder pain: a randomized controlled trial. *Evidence-Based Complementary and Alternative Medicine.* 2016, Article ID 7358918, 7 pages. Doi:10.1155/2016/7358918.
12. Hauser RA, Lackner JB, Steilen-Matias D, et al. A systematic review of dextrose prolotherapy for chronic musculoskeletal pain. *Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders.* 2016;9:139-159. doi:10.4137/CMAMD.S39160.
13. Koyuncu E, Metin Ökmen B, Özkkuk K, et al. The effectiveness of balneotherapy in chronic neck pain. *Clin Rheumatol.* 2016;35:2549-2555. Doi: 10.1007/s10067-016-3199-8.
14. Carette S, Fehlings MG. Clinical practice. Cervical radiculopathy. *N Engl J Med.* 2005;353:392-399.
15. Rao R. Neck pain, cervical radikulopathy and cervical myelopathy: pathophysiology, natural history and clinical evaluation. *Instr Course Lect.* 2003;52:479-488.
16. Slipman CW, Plastaras CT, Palmisano RA, et al. Symptom provocation of fluoroscopically guided cervical nerve root stimulation: are dynatomal maps identical to dermatomal maps? *Spine.* 1998;23:2235-2242.
17. Rubinstein SM, Pool JJ, Van Tulder MW, et al. A systematic review of the diagnostic accuracy of provocative tests of the neck for diagnosing cervical radiculopathy. *Eur Spine J.* 2007;16(3):307-319.

18. Malanga GA, Landes P, Nadler SF. Provocative tests in cervical spine examination: historical basis and scientific analyses. *Pain Physician.* 2003;6(2):199-205.
19. Taşkaynatan MA. Boyun ağrısı nedenleri ve muayenesi. Beyazova M., Gökçe Kutsal Y (Eds.), *Fiziksel Tip ve Rehabilitasyon* içinde (s.1981-1994). Ankara: Güneş Tip Kitapevleri.
20. Rahme E, Pettitt D, Le Lorrier J. Determinants and sequelae associated with utilization of acetaminophen versus traditional anti-inflammatory drugs in an elderly population. *Arthritis Rheum.* 2002;46:3046-3054.
21. Douglas AB, Bope ET. Evaluation and treatment of posterior neck pain in family practice. *J Am Board Fam Pract.* 2004;17:13-22.
22. Abe M, Kurihara T, Han W, et al. Changes in expression of voltage-dependent ion channel subunits in dorsal root ganglia of rats with radicular injury and pain. *Spine.* 2002;27:1517-1524.
23. Yaksi A, Ozgönenel L, Ozgönenel B. The efficiency of gabapentin therapy in patients with lumbar spinal stenosis. *Spine.* 2007;32:939-942.
24. Onakpoya IJ, Thomas ET, Lee JJ, et al. Benefits and harms of pregabalin in the management of neuropathic pain: a rapid review and metaanalysis of randomised clinical trials. *BMJ Open.* 2019;9:e023600. Doi:10.1136/bmjopen-2018-023600.
25. Evoy KE, Covvey JR, Peckham AM, Ochs L, Hultgren KE, Reports of gabapentin and pregabalin abuse, misuse, dependence, or overdose: An analysis of the Food And Drug Administration Adverse Events Reporting System (FAERS). *Research in Social & Administrative Pharmacy* (2018). Doi: 10.1016/j.sapharm.2018.06.018.
26. House LM, Barrette K, Mattie R, et al. Cervical epidural steroid injection, techniques and evidence. *Phys Med Rehabil Clin N Am.* 2018;29:1-17. Doi: 10.1016/j.pmr.2017.08.001.
27. Kay TM, Gross A, Goldsmith CH, et al. Exercises for mechanical neck disorders. *Cochrane Database Syst Rev.* 2012;8:CD004250.
28. Sihawong R, Janwantanakul P, Sitthipornvorakul E, et al. Exercise therapy for office workers with nonspecific neck pain: a systematic review. *J Manipulative Physiol Ther.* 2011;34(1):62-71.
29. Bertozzi L, Gardenghi I, Turoni F, et al. Effect of therapeutic exercise on pain and disability in the management of chronic nonspecific neck pain: systematic review and meta-analysis of randomized trials. *Phys Ther.* 2013;93(8):1026-1036.
30. Kuijper B, Tans JT, Beelen A, et al. Cervical collar or physiotherapy versus wait and see policy for recent onset cervical radiculopathy: randomised trial. *BMJ.* 2009;339:b3883.
31. Thooomes EJ, Scholten-Peeters W, Koes B, et al. The effectiveness of conservative treatment for patients with cervical radiculopathy: a systematic review. *Clin J Pain.* 2013;29(12):1073-1086.
32. Furlan AD, Yazdi F, Tsersvadze A, et al. A systematic review and meta-analysis of efficacy, cost-effectiveness, and safety of selected complementary and alternative medicine for neck and low-back pain. *Evid Based Complement Alternat Med.* 2012;953139. Doi: 10.1155/2012/953139
33. Hurwitz EL, Carragee EJ, van der Velde G, et al; Results of the bone and joint decade 2000-2010 task force on neck pain and its associated disorders. Treatment of neck pain: noninvasive interventions. *Eur Spine J.* 2008;17(suppl 1):123-152. Doi: 10.1007/s00586-008-0631-z.
34. Kong LJ, Zhan HS, Cheng YW, et al. Massage therapy for neck and shoulder pain: a systematic review and meta-analysis. *Evid Based Complement Alternat Med.* 2013;2013:613279. Doi:10.1155/2013/613279
35. Patel KC, Gross A, Graham N, et al. Massage for mechanical neck disorders. *Cochrane Database Syst Rev.* 2012;9:CD004871. Doi: 10.1002/14651858.CD004871.pub4.
36. Graham N, Gross A, Goldsmith CH, et al. Mechanical traction for neck pain with or without radiculopathy. *Cochrane Database Syst Rev.* 2008;(3):CD006408. Doi: 10.1002/14651858.CD006408.pub2.
37. Kroeling P, Gross A, Goldsmith CH, et al. Electrotherapy for neck pain. *Cochrane Database Syst Rev.* 2013;(8):CD004251. Doi: 10.1002/14651858.CD004251.pub5.
38. Cramer H, Lauche R, Hohmann C, et al. Randomized controlled trial comparing yoga and home-based exercise for chronic neck pain. *Clin J Pain.* 2013;29(3):216-223.

39. Bronfort G, Evans R, Anderson AV, et al. Spinal manipulation, medication, or home exercise with advice for acute and subacute neck pain: a randomized trial. *Ann Intern Med.* 2012;156(1, pt 1):1-10. Doi: 10.7326/0003-4819-156-1-201201030-00002.
40. Gross AR, Hoving JL, Haines TA, et al. A cochrane review of manipulation and mobilization for mechanical neck disorders. *Spine.* 2004;15;29(14):1541-1548.
41. Tsao JC. Effectiveness of massage therapy for chronic, non-malignant pain: a review. *Evid Based Complement Alternat Med.* 2007;4:165-179.
42. Haraldsson BG, Gross AR, Myers CD, et al. Massage for mechanical neck disorders. *Cochrane Database Syst Rev.* 2006;19;3:CD004871.
43. Trinh KV, Graham N, Gross AR, et al. Acupuncture for neck disorders. Cervikal Overview Group. *Cochrane Database Syst Rev.* 2016 May 4;(5):CD004870. Doi: 10.1002/14651858. CD004870.pub4.
44. Kroeling P, Gross A, Graham N, et al. Electrotherapy for neck pain. *Cochrane Database of Systematic Reviews.* 2013, Issue 8.CD004251. Doi: 10.1002/14651858.CD004251.pub5.
45. Binder AI. Cervical spondylosis and neck pain. *BMJ.* 2007 Mar 10;334(7592):527-531. Doi: 10.1136/bmj.39127.608299.80.
46. Baron EM, Young WF. Cervical spondyloticmyelopathy: a brief review of its pathophysiology, clinical course and diagnosis. *Neurosurgery.* 2007;60:35-41. Doi: 10.1227/01. NEU.0000215383.64386.82.
47. Salvi FJ, Jones JC, Weigert BJ. The assesment of cervical myelopathy. *Spine J.* 2006;6:182S-189S.
48. Reiter MF, Boden SD. Inflammatory disorders of the cervical spine. *Spine.* 1998;23:2755-2766.
49. Nguyen HV, Ludwig SC, Silber J, et al. Rheumatoid arthritis of the cervical spine. *Spine J.* 2004;4:329-334.
50. Yunus NB. Fibromyalgia and overlapping disorders: the unifying concept of central sensitivity syndromes. *Semin Arthritis Rheum.* 2007;36(6):339-356. Doi:10.1016/j.semarthrit.2006.12.009.
51. Yunus MB. Central sensitivity syndromes: a new paradigm and group nosology for fibromyalgia and overlapping conditions and the related issue of disease versus illness. *Sem Arthritis Rheum.* 2008;37(6):339-352. Doi: 10.1016/j.semarthrit.2007.09.003.
52. Wolfe F, Smythe HA, Yunus MB, et al. The American College of Rheumatology 1990 Criteria for The Classification of Fibromyalgia. Report of the Multicenter Criteria Committee. *Arthritis Rheum.* 1990;33:160-72. Doi: 10.1002/art.1780330203.
53. Bennett RM, Jones J, Turk DC, Russell IJ, Matallana L. An internet survey of 2596 people with fibromyalgia. *BMC Musculoskeletal Disorders* 2007;8:27. Doi: 10.1186/1471-2474-8-27.
54. Wolfe F, Ross K, Anderson J, Russel IJ. Aspects of fibromyalgia in the general population: sex, pain threshold and fibromyalgia symptoms. *J Rheumatol.* 1995;22:151-6.
55. Bradley LA. Pathophysiology of fibromyalgia. *Am J Med* 2009;122:22-30. Doi: 10.1016/j.amjmed.2009.09.008.
56. Calis M, Gökce C, Ates F, Ülker S, İzgi HB, Demir H, et al. Investigation of the hypothalamo-pituitary-adrenal axis (HPA) by 1 $\mu$ g ACTH test and metyrapone test in patients with primary fibromyalgia syndrome. *J Endocrinol Invest.* 2004;27:42-6.
57. Crofford LJ, Pillemer SR, Kalogeras KT, et al. Hypothalamic-pituitary adrenal axis perturbations in patients with fibromyalgia. *Arthritis Rheum.* 1994;37(11):1583-92.
58. Yunus MB, Masi AT, Aldag JC. A controlled study of primary with other functional syndrome: clinical features and association with other functional syndromes. *J Rheumatol.* 1989;19:62-71.
59. Wolfe F, Clauw DJ, Fitzcharles MA, et al. The American Collage of Rheumatology preliminary diagnostic criteria for fibromyalgia and measurement of symptom severity. *Arthritis Care & Research* 2010;62(5):600-610. Doi:10.1002/acr.20140.
60. Wolfe F, Clauw DJ, Fitzcharles MA, et al. 2016 Revisions to the 2010/2011 fibromyalgia diagnostic criteria. *Semin Arthritis Rheum* 2016;46(3):319-329. Doi:10.1016/j.semarthrit.2016.08.012.
61. Goldenberg DL. Pharmacological treatment of fibromyalgia and other chronic musculoskeletal pain. *Best Prac Res Clin Rheumatol.* 2007;21(3):499-511. Doi:10.1016/j.berh.2007.02.012.

62. Russell IJ, Mease PJ, Smith TR, et al. Efficacy and safety of duloksetin for treatment of fibromyalgia in patients with or without major depressive disorder: Result from a 6-month, randomized, double-blind, placebo-controlled, fixed-dose trial. *Pain*. 2008;136(3):432-444. Doi:10.1016/j.pain.2008.02.024.
63. Crafford LJ, Rowbotham MC, Mease PJ, et al. Pregabalin for the treatment of fibromyalgia syndrome: results of a randomized, double-blind, placebo-controlled trial. *Arthritis Rheum*. 2005;52:1264-1273. Doi:10.1002/art.20983
64. Russell J, Kamin M, Bennett RM, et al. Efficacy of tramadol in treatment of pain in fibromyalgia. *J Clin Rheumatol*. 2000;6:250-257.
65. Barbero M, Schneebeli A, Koetsier E, et al. Myofascial pain syndrome and trigger points: evaluation and treatment in patients with musculoskeletal pain. *Curr Opin Support Care*. 2019. Doi: 10.1097/SPC.0000000000000445.
66. Money S. Pathophysiology of trigger points in myofascial pain syndrome. *J Pain Palliat Care Pharmacother*. 2017;31(2):158-159. Doi: 10.1080/15360288.
67. Eftekhar Sadat B, Porjafar E, Eslamian F, et al. Combination of Exercise and Acupuncture Versus Acupuncture Alone for Treatment of Myofascial Pain Syndrome: A Randomized Clinical Trial. *J Acupunct Meridian Stud*. 2018;11(5):315-322. Doi: 10.1016/j.jams.2018.04.006.