

AVACEN TREATMENT METHOD

Scientific Support

1. Albrecht, P. J., Hou, Q., Argoff, C. E., Storey, J. R., Wymer, J. P., & Rice, F. L. (2013). Excessive peptidergic sensory innervation of cutaneous arteriole-venule shunts (AVS) in the palmar glabrous skin of fibromyalgia syndrome patients: implications for widespread deep tissue pain and fatigue. *Pain Medicine*, 14(6), 895-915. doi: 10.1111/pme.12139
2. Cagnie, B., Coppieters, I., Denecker, S., Six, J., Danneels, L., & Meeus, M. (2014). Central sensitization in fibromyalgia? A systematic review on structural and functional brain MRI. *Seminars in Arthritis and Rheumatism*, 44(1), 68-75. doi: 10.1016/j.semarthrit.2014.01.001
3. Carretero, B., Martin, M. J., Juan, A., Pradana, M. L., Martín, B., Carral, M., Jimeno, T., Pareja, A., Montoya, P., Aguirre, I., Salva, J., Roca, M., Gili, M., Garcia-Toro, M. (2009). Low-frequency transcranial magnetic stimulation in patients with fibromyalgia and major depression. *Pain Medicine*, 10(4), 748-753. doi: 10.1111/j.1526-4637.2009.00625.x
4. Cassisi, G., Sarzi-Puttini, P., Casale, R., Cazzola, M., Boccassini, L., Atzeni, F., & Stisi, S. (2014). Pain in fibromyalgia and related conditions. *Reumatismo*, 66(1), 72-86. doi: 10.4081/reumatismo.2014.767
5. Clauw, D. J. (2009). Fibromyalgia: an overview. *The American Journal of Medicine*, 122(12 Suppl), S3-S13. doi: 10.1016/j.amjmed.2009.09.0

6. Clauw, D. J., & Crofford, L. J. (2003). Chronic Widespread pain and fibromyalgia: what we know, and what we need to know. *Best Practice & Research Clinical Rheumatology*, 17(4), 685-701. doi: 10.1016/S1521-6942(03)00035-4
7. Grahn, D., Brock-Utne, J. G., Watenpaugh, D. E., & Heller, H. C. (1998). Recovery from mild hypothermia can be accelerated by mechanically distending blood vessels in the hand. *Journal of Applied Physiology* (1985), 85(5), 1643-1648. Retrieved from <http://jap.physiology.org/content/85/5/1643.full.pdf+html>
8. Coppola, G., Di Lorenzo, C., Schoenen, J., & Pierelli, F. (2013). Habituation and sensitization in primary headaches. *The Journal of Headache and Pain*, 14, 65-78. doi: 10.1186/1129-2377-14-65
9. Gauffin, J., Hankama, T., Hannonen, P., Kautiainen, H., Pohjolainen, T., Haanpää, M. (2013). Do fibromyalgia patients use active pain management strategies? A cohort study. *Journal of Rehabilitation Medicine*, 45(5), 477-480. doi: 10.2340/16501977-1133
10. Gold, M. S., & Gebhart, G. F. (2010). Nociceptor sensitization in pain pathogenesis. *Nature Medicine*, 16(11), 1248-1257. doi: 10.1038/nm.2235
11. Gracely, R. H., Petzke, F., Wolf, J. M., & Clauw, D. J. (2002). Functional magnetic resonance imaging evidence of augmented pain processing in fibromyalgia. *Arthritis and Rheumatism*, 46(5):1333-1343. doi: 10.1002/art.10225
12. Hargrove, J. B., Bennett, R. M., & Clauw, D. J. (2012). Long-term outcomes in fibromyalgia patients treated with noninvasive cortical electrostimulation. *Archives of Physical Medicine and Rehabilitation*, 93(10):1868-71. doi: 10.1016/j.apmr.2012.04.006
13. Helmick, C. G., Felson, D. T., Lawrence, R. C., Gabriel, S., Hirsch, R., Kwoh, C. K., Liang, M. H., Kremers, H. M., Mayes, M. D., Merkel, P. A., Pillemer, S. R., Reveille, J.

- D., Stone, J. H., & National Arthritis Data Workgroup. (2008). Estimates of the prevalence of arthritis and other rheumatic conditions in the United States. Part I. *Arthritis and Rheumatism*, 58(1), 15-25. doi: 10.1002/art.23177
14. Imamura, M., Cassius, D. A., Fregni, F. (2009). Fibromyalgia: From treatment to rehabilitation. *European Journal of Pain*, 3(2), 117-122.
doi: 10.1016/j.eujps.2009.08.011
15. Jensen, T. S., & Finnerup, N. B. (2014). Allodynia and hyperalgesia in neuropathic pain: clinical manifestations and mechanisms. *The Lancet Neurology*, 13(9), 924-935. doi: 10.1016/S1474-4422(14)70102-4
16. Khalsa, P. S. (2004). Biomechanics of musculoskeletal pain: dynamics of the neuromatrix. *Journal of Electromyography and Kinesiology: Official journal of the International Society of Electrophysiological Kinesiology*, 14(1), 109-120. doi: 10.1016/j.jelekin.2003.09.020
17. Lawrence, R. C., Felson, D. T., Helmick, C. G., Arnold, L. M., Choi, H., Deyo, R. A., Gabriel, S., Hirsch, R., Hochberg, M. C., Hunder, G. G., Jordan, J. M., Katz, J. N., Kremers, H. M., Wolfe, F., & National Arthritis Data Workgroup. (2008). Estimates of the prevalence of arthritis and other rheumatic conditions in the United States. Part II. *Arthritis and Rheumatism*, 58(1), 26-35. doi: 10.1002/art.23176
18. Matsushita, K., & Masuda, A., & Tei, C. (2008). Efficacy of Waon therapy for fibromyalgia. *Internal Medicine*, 247(16), 1473-1476. doi: 10.2169/internalmedicine.47.1054
19. McGuire, L., Heffner, K., Glaser, R., Needleman, B., Malarkey, W., Dickinson, S., Lemeshow, S., Cook, C., Muscarella, P., Melvin, W. S., Ellison, E. C., Kiecolt-Glaser, J.

- K. (2006). Pain and wound healing in surgical patients. *Annals of behavioral medicine: A publication of the Society of Behavioral Medicine*, 31(2), 165-172. doi: 10.1207/s15324796abm3102_8
20. Meeus, M., Goubert, D., De Backer, F., Struyf, F., Hermans, L., Coppieters, I., De Wandele, I., Da Silva, H., & Calders, P. (2013). Heart rate variability in patients with fibromyalgia and patients with chronic fatigue syndrome: a systematic review. *Seminars in Arthritis and Rheumatism*, 43(2), 279-287. doi: 10.1016/j.semarthrit.2013.03.004
21. Miyata, M., & Tei, C. (2010). Waon therapy for cardiovascular disease: innovative therapy for the 21st century. *Circulation journal: Official journal of the Japanese Circulation Society*, 74(4), 617-621. doi: 10.1253/circj.CJ-09-0939
22. Nijs, J., & Van Houdenhove, B. (2009). From acute musculoskeletal pain to chronic widespread pain and fibromyalgia: application of pain neurophysiology in manual therapy practice. *Manual Therapy*, 14(1):3-12. doi: 10.1016/j.math.2008.03.001
23. Panton, L., Simonavice, E., Williams, K., Mojock, C., Kim, J. S., Kingsley, J. D., McMillan, V., & Mathis R. (2013). Effects of Class IV laser therapy on fibromyalgia impact and function in women with fibromyalgia. *Journal of Alternative and Complementary Medicine*, 19(5), 445-452. doi: 10.1089/acm.2011.0398
24. Papageorgiou, A. C., Silman, A. J., & Macfarlane, G. J. (2002). Chronic widespread pain in the population: a seven year follow up study. *Annals of the Rheumatic Diseases*, 61(12), 1071-1074. doi: 10.1136/ard.61.12.1071
25. Poyhia, R., Da Costa, D., Fitzcharles, M. A. (2001). Pain and pain relief in fibromyalgia patients followed for three years. *Arthritis and Rheumatism*, 45(4), 355-361. doi: 10.1002/1529-0131(200108)45:4<355::AID-ART348>[3.0.CO;2-K](#)

26. Rohrbeck, J., Jordan, K., & Croft, P. (2007). The frequency and characteristics of chronic widespread pain in general practice: a case-control study. *The British Journal of General Practice: The journal of the Royal College of General Practitioners*, 57(535), 109-115. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2034170/>
27. Short, B., Borckardt, J. J., George, M., Beam, W., & Reeves, S. T. (2009). Non-invasive brain stimulation approaches to fibromyalgia pain. *Journal of Pain Management*, 2(3), 259-276. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3153879/>
28. Smith, H. S., Harris, R., & Clauw, D. (2011). Fibromyalgia: an afferent processing disorder leading to a complex pain generalized syndrome. *Pain Physician*, 14(2), E217-E245. Retrieved from <http://www.painphysicianjournal.com/current/pdf?article=MTQ1Ng%3D%3D&journal=60>
29. Valle, A., Roizenblatt, S., Botte, S., Zaghi, S., Riberto, M., Tufik, S., Boggio, P., S., & Fregni, F. (2009). Efficacy of anodal transcranial direct current stimulation (tDCS) for the treatment of fibromyalgia: results of a randomized, sham-controlled longitudinal clinical trial. *Journal of Pain Management*, 2(3), 353-361. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3002117/>
30. Wolfe, F., Clauw, D. J., Fitzcharles, M. A., Goldenberg, D. L., Katz, R. S., Mease, P., Russell, A. S., Russell, I. J., Winfield, J. B., & Yunus, M. B. (2010). The American College of Rheumatology preliminary diagnostic criteria for fibromyalgia and measurement of symptom severity. *Arthritis Care & Research*, 62(5), 600-610. doi: 10.1002/acr.20140

31. Yunus, M .B. (2007). Fibromyalgia and overlapping disorders: the unifying concept of central sensitivity syndromes. *Seminars in Arthritis and Rheumatism*, 36(6), 339-356.
doi: 10.1016/j.semarthrit.2006.12.009