

Supplementary material

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

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Effectiveness of neural mobilization techniques in decreasing pain and improving function in people with low back and neck pain: a systematic review with meta-analysis



References

- 1. Cieza A, Causey K, Kamenov K, Hanson SW, Chatterji S, Vos T. Global estimates of the need for rehabilitation based on the Global Burden of Disease study 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. 2020;396(10267):2006-2017. doi:10.1016/S0140-6736(20)32340-0
- 2. González ÁC, Berenguer SB, Luque Mañas JM, Martin-Pintado-Zugasti A. Validation of a sham novel neural mobilization technique in patients with non-specific low back pain: A randomized, placebo-controlled trial. *Musculoskelet Sci Pract.* 2021;53. https://doi.org/10.1016/j.msksp.2021.102378
- 3. Patel SY, Patil C, Patil S. Comparison of neural tissue mobilization and muscle energy technique on hamstring tightness in chronic low back pain. *Medico-Legal Updat*. 2020;20(2):375-379. https://doi.org/10.37506/mlu.v20i2.1133
- 4. Nagrale AV, Patil SP, Gandhi RA, Learman K. Effect of slump stretching versus lumbar mobilization with exercise in subjects with non-radicular low back pain: A randomized clinical trial. *J Man Manip Ther*. 2012;20(1):35-42. https://doi.org/10.1179/2042618611Y.0000000015
- 5. Jain R, Hameed UA, Tuteja R. Effectiveness of Slump Stretching in Comparison to Conventional Physiotherapy in Treatment of Subacute Non-radicular Low Back Pain. *Indian J Physiother Occup Ther.* 2012;6(1):123-126.
- Malik N, Kataria C, Sachdev NB. Comparative Effectiveness of Straight Leg Raise and Slump Stretching in Subjects with Low Back Pain with Adverse Neural Tension. Int J Heal Rehabil Sci. 2012;1(1). https://doi.org/10.5455/ijhrs.000002
- 7. Machado GF, Bigolin SE. Comparative study of cases between neural mobilization and a muscular elongation program on chronic backache. *Fisioter em Mov*. 2010;23(4):545-554. https://doi.org/10.1590/s0103-51502010000400005
- 8. Cleland JA, Childs JD, Palmer JA, Eberhart S. Slump stretching in the management of non-radicular low back pain: A pilot clinical trial. *Man Ther.* 2006;11(4):279-286. https://doi.org/10.1016/j.math.2005.07.002
- 9. Kurt V, Aras O, Buker N. Comparison of conservative treatment with and without neural mobilization for patients with low back pain: A prospective, randomized clinical trial. *J Back Musculoskelet Rehabil*. 2020;33(6):969-975. https://doi.org/10.3233/BMR-181241
- 10. Moksha J, Medha D, Swati M. Effectiveness of Sliders Vs Tensioners on Pain and Disability in Nonspecific Low Back Pain with Associated Lower Limb Symptoms: A Pretest Posttest Experimental Study. *Int J Heal Sci Res.* 2019;9(9):46-52.
- 11. Kirthika V, Rajalaxmi V, Sudhakar S, Bhuvaneshwaran T, Fousiya Thaslim K. Effect of Combining Slump Stretching With Conventional Physiotherapy in the Treatment of Subacute Non-Radicular Low Back Pain. *Int J Physiother Occup Ther*. 2016;2(2):9-16.
- 12. Jaidka NK, Singh A. Comparison Between Postero-anterior Spinal Mobilization and Slump Stretching in Patients with Chronic Low Back Pain. *Indian J Physiother Occup Ther*. 2016;10(2):20-25. https://doi.org/10.5958/0973-5674.2016.00041.1
- 13. Mansuri F, Shah N. Effect of slump stretching on pain and disability in non-radicular low back pain. *Int Arch Integr Med.* 2015;2(5):18-25.
- 14. Karthikeyan, Jothikaran J, Kiran P. Effect of Slump Stretching with Static Spinal Exercise for the Management of Non Radicular Low Back Pain among Non Active Sports Persons. *Indian J Physiother Occup Ther*. 2014;8(4):175-179. https://doi.org/10.5958/0973-5674.2014.00033.1
- 15. Ravinder Y, Ashok A, Vandana. Comparison between slump stretching along with exercises and cognitive intervention with exercises in the management of non-radicular low back pain. *Int J Physiother Res.* 2014;2(2):429-434.
- 16. Patel G. To Compare the effectiveness of Mulligan Bent Leg Raising and Slump Stretching in Patient with Low Back Pain. *Indian J Physiother Occup Ther.* 2014;8(3):24-28. https://doi.org/10.5958/0973-5674.2014.00350.5
- Cabrera-Martos I, Rodriguez-Torres J, Lopez-Lopez L, Prados-Roman E, Granados-Santiago M, Valenza MC. Effects of an active intervention based on myofascial release and neurodynamics in patients with chronic neck pain: a randomized controlled trial. *Physiother Theory Pract.* 2020;38(9):1145-1152. https://doi.org/10.1080/09593985.2020.1821418
- 18. Fernandez-Carnero J, Sierra-Silvestre E, Beltran-Alacreu H, Gil-Martinez A, La Touche R. Neural tension technique improves immediate conditioned pain modulation in patients with chronic neck pain: A randomized clinical trial. *Pain Med (United States)*. 2019;20(6):1227-1235. https://doi.org/10.1093/pm/pny115
- 19. Masullo V. Comparison between neurodynamics and joint articulation on non-specific mechanical neck pain without radiation on arms: A pilot-controlled study. Published online 2018.



- 20. Khan MR, Shafi H, Amjad I, Siddiqui FA. Efficacy of cervical spine mobilization versus peripheral nerve slider techniques (neurodynamics) in cervicobrachial pain syndrome A randomized clinical trial. *J Islam Int Med Coll*. 2015;10(4):9-17.
- 21. Gupta R, Sharma S. Effectiveness of median nerve slider's neurodynamics for managing pain and disability in cervicobrachial pain syndrome. *Indian J Physiother Occup Ther.* 2012;6(1).
- 22. Marks M, Schöttker-Königer T, Probst A. Efficacy of cervical spine mobilization versus peripheral nerve slider techniques in cervicobrachial pain syndrome A randomized clinical trial. *J Phys Ther.* 2011;4(1):9-17.
- 23. Chhabra D, Raja K, B. G, Prabhu N. Effectiveness of neural tissue mobilization over cervical lateral glide in cervico-brachial pain syndrome A randomized clinical trial. *Indian J Physiother Occup Ther.* 2008;2(4).
- 24. Allison GT, Nagy BM, Hall T. A randomized clinical trial of manual therapy for cervico-brachial pain syndrome A pilot study. *Man Ther.* 2002;7(2):95-102. https://doi.org/10.1054/math.2002.0453