

BIBLIOGRAPHY

- A safe “opioid” – is dry needling an efficacious alternative to opioids? - International Journal of Complementary & Alternative Medicine. (n.d.). Retrieved from <https://medcraveonline.com/article?id=18025>
- Benefits of dry needling of myofascial trigger points on autonomic function and photoelectric plethysmography in patients with fibromyalgia syndrome. - PubMed - NCBI. (n.d.). Retrieved February 3, 2020, from <https://www.ncbi.nlm.nih.gov/pubmed/31986897>
- Safe acupuncture and dry needling during pregnancy: New Zealand physiotherapists’ opinion and practice. - PubMed - NCBI. (n.d.). Retrieved March 9, 2020, from <https://www.ncbi.nlm.nih.gov/pubmed/30528519>
- Cutaneous Scarring: A Clinical Review. (n.d.). Retrieved March 18, 2020, from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2879602/>
- Pronator Teres Syndrome - PubMed - NCBI. (n.d.). Retrieved May 18, 2020, from <https://www.ncbi.nlm.nih.gov/pubmed/30252346>
- The effectivity of trigger point dry needling in improving pain on people with upper trapezius myalgia - PubMed. (n.d.). Retrieved October 14, 2020, from <https://pubmed.ncbi.nlm.nih.gov/33040948/>
- Dry Needling for Bell’s Palsy: the Evidence & Management – OSTEOPRACTIC. (n.d.). Retrieved November 9, 2020, from <https://osteopractor.wordpress.com/2016/11/30/dry-needling-for-bells-palsy-evidence-management/>
- Abbas, J., Slon, V., May, H., Peled, N., Hershkovitz, I., & Hamoud, K. (2016). Paraspinal muscles density: a marker for degenerative lumbar spinal stenosis? *BMC Musculoskeletal Disorders*, 17(1), 422. <https://doi.org/10.1186/s12891-016-1282-6>
- Abbaszadeh-Amirdehi, M., Ansari, N. N., Naghdi, S., Olyaei, G., & Nourbakhsh, M. R. (2017). Neurophysiological and clinical effects of dry needling in patients with upper trapezius myofascial trigger points. *Journal of Bodywork and Movement Therapies*, 21(1). <https://doi.org/10.1016/j.jbmt.2016.04.014>
- Acquadro, M. A., & Borodic, G. E. (1994). Treatment of myofascial pain with botulinum A toxin. *Anesthesiology*, 80(3), 705–706. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/8141474>
- Ahmed, A., Kang, A., & Hyung-Joon, J. (2019). Fluoroscopically guided interlaminar needle for lumbar disc herniation: A series of 43 patients. *Annals of Saudi Medicine*, 39(6), 417–421. <https://doi.org/10.5144/0256-4947.2019.417>

- Ahsin, S., Saleem, S., Bhatti, A. M., Iles, R. K., & Aslam, M. (2009). Clinical and endocrinological changes after electro-acupuncture treatment in patients with osteoarthritis of the knee. *Pain, 147*(1), 60–66. <https://doi.org/10.1016/j.pain.2009.08.004>
- Akanda, Z. Z., Taha, M., & Abdelbary, H. (2017). Current review-The rise of bacteriophage as a unique therapeutic platform in treating peri-prosthetic joint infections. *Journal of Orthopaedic Research, 36*(4), 1051–1060. <https://doi.org/10.1002/jor.23755>
- Akhbari, B., Salavati, M., Ezzati, K., Mohammadi Rad, S., Rad, S. M., & Mohammadi Rad, S. (2014). The use of dry needling and myofascial meridians in a case of plantar fasciitis. *Journal of Chiropractic Medicine, 13*(1), 43–48. <https://doi.org/10.1016/j.jcm.2014.01.006>
- Alaei, P., Nakhostin Ansari, N., Naghdi, S., Fakhari, Z., Komesh, S., & Dommerholt, J. (2020). Dry Needling for Hamstring Flexibility: A Single-Blind Randomized Controlled Trial. *Journal of Sport Rehabilitation, 1*–6. <https://doi.org/10.1123/jsr.2020-0111>
- Almeida, R. T., & Duarte, I. D. G. (2008). Nitric oxide/cGMP pathway mediates orofacial antinociception induced by electroacupuncture at the St36 acupoint. *Brain Research, 1188*, 54–60. <https://doi.org/10.1016/j.brainres.2007.10.060>
- Al-Moraissi, E. A., Alradom, J., Aladashi, O., Goddard, G., & Christidis, N. (2020, July 1). Needling therapies in the management of myofascial pain of the masticatory muscles: A network meta-analysis of randomised clinical trials. *Journal of Oral Rehabilitation*. Blackwell Publishing Ltd. <https://doi.org/10.1111/joor.12960>
- Anandkumar, S. (2019). Effect of dry needling on radial tunnel syndrome: A case report. *Physiotherapy Theory and Practice, 35*(4), 373–382. <https://doi.org/10.1080/09593985.2018.1443357>
- Anandkumar, S. (2018). Effect of dry needling on myofascial pain syndrome of the quadratus femoris: A case report. *Physiotherapy Theory and Practice, 34*(2). <https://doi.org/10.1080/09593985.2017.1376021>
- Anandkumar, S., & Manivasagam, M. (2019). Effect of dry needling on cubital tunnel syndrome: Three case reports. *Physiotherapy Theory and Practice, 35*(4), 363–372. <https://doi.org/10.1080/09593985.2018.1449275>
- Ansari, N. N. (2017). A single group, pretest-posttest clinical trial for the effects of dry needling on wrist flexors spasticity after stroke. *NeuroRehabilitation, 1*–12. <https://doi.org/10.3233/NRE-161420>
- Ansari, N. N., Alaei, P., Naghdi, S., Fakhari, Z., Komesh, S., & Dommerholt, J. (2018). Immediate Effects of Dry Needling as a Novel Strategy for Hamstring Flexibility: A Single Blinded Clinical Pilot Study. *Journal of Sport Rehabilitation, 1*–23. <https://doi.org/10.1123/jsr.2018-0013>

- Ansari, N. N., Naghdi, S., Fakhari, Z., Radinmehr, H., & Hasson, S. (2015). Dry needling for the treatment of poststroke muscle spasticity: a prospective case report. *NeuroRehabilitation*, 36(1), 61–65. <https://doi.org/10.3233/NRE-141192>
- Aras, D., Al-Ihsan, I. M., & Sutono, E. (2020). The effectivity of trigger point dry needling in improving pain on people with upper trapezius myalgia. *Enfermería Clínica*, 30, 87–91. <https://doi.org/10.1016/j.enfcli.2020.06.020>
- Aredo, J. V., Heyrana, K. J., Karp, B. I., Shah, J. P., & Stratton, P. (2017). Relating Chronic Pelvic Pain and Endometriosis to Signs of Sensitization and Myofascial Pain and Dysfunction. *Seminars in Reproductive Medicine*, 35(1). <https://doi.org/10.1055/s-0036-1597123>
- Arias-Burúa, J. L., Fernández-de-las-Peñas, C., Palacios-Ceña, M., Koppenhaver, S. L., & Salom-Moreno, J. (2017). Exercises and Dry Needling for Subacromial Pain Syndrome: A Randomized Parallel-Group Trial. *Journal of Pain*, 18(1). <https://doi.org/10.1016/j.jpain.2016.08.013>
- Arias-Burúa, J. L., Monroy-Acevedo, Á., Fernández-de-las-Peñas, C., Gallego-Sendarrubias, G. M., Ortega-Santiago, R., & Plaza-Manzano, G. (2020). Effects of dry needling of active trigger points in the scalene muscles in individuals with mechanical neck pain: a randomized clinical trial. *Acupuncture in Medicine*. <https://doi.org/10.1177/0964528420912254>
- Arias-Burúa, J. L., Valero-Alcaide, R., Cleland, J. A., Salom-Moreno, J., Ortega-Santiago, R., Atín-Arratibel, M. A., & Fernández-de-las-Peñas, C. (2015). Inclusion of Trigger Point Dry Needling in a Multimodal Physical Therapy Program for Postoperative Shoulder Pain: A Randomized Clinical Trial. *Journal of Manipulative and Physiological Therapeutics*, 38(3), 179–187. <https://doi.org/10.1016/j.jmpt.2014.11.007>
- Arias-Burúa, J. L., Martín-Saborido, C., Cleland, J., Koppenhaver, S. L., Plaza-Manzano, G., & Fernández-de-las-Peñas, C. (2018). Cost-effectiveness Evaluation of the Inclusion of Dry Needling into an Exercise Program for Subacromial Pain Syndrome: Evidence from a Randomized Clinical Trial. *Pain Medicine*. <https://doi.org/10.1093/pm/pny021>
- Aridici, R., Yetisgin, A., Boyaci, A., Tutoglu, A., Bozdogan, E., Sen Dokumaci, D., ... Boyaci, N. (2016). Comparison of the Efficacy of Dry Needling and High-Power Pain Threshold Ultrasound Therapy with Clinical Status and Sonoelastography in Myofascial Pain Syndrome. *American Journal of Physical Medicine & Rehabilitation / Association of Academic Physiatrists*, 95(10), e149-58. <https://doi.org/10.1097/PHM.0000000000000600>
- Arriaga-Pizano, L., Gómez-Jiménez, D. C., Flores-Mejía, L. A., Pérez-Cervera, Y., Solórzano-Mata, C. J., López-Macías, C., ... Torres-Rosas, R. (2020). Low back pain in athletes can be controlled with acupuncture by a catecholaminergic pathway: clinical trial. *Acupuncture in Medicine*, 096452842091225. <https://doi.org/10.1177/0964528420912251>

- Atilano, L., Martin, J. I., Iglesias, G., & Andia, I. (2015). Percutaneous needling of Morton's complex: a technical note. *Muscles, Ligaments and Tendons Journal*, 5(4), 280–283. <https://doi.org/10.11138/mltj/2015.5.4.280>
- Audette, J. F., Wang, F., & Smith, H. (2004). Bilateral activation of motor unit potentials with unilateral needle stimulation of active myofascial trigger points. *American Journal of Physical Medicine & Rehabilitation*, 83(5), 368–374, quiz 375–377, 389. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/15100626>
- Ay, S., Evcik, D., & Tur, B. S. (2010). Comparison of injection methods in myofascial pain syndrome: a randomized controlled trial. *Clinical Rheumatology*, 29(1), 19–23. <https://doi.org/10.1007/s10067-009-1307-8>
- Aydin, T., Dernek, B., Sentürk Ege, T., Karan, A., & Aksoy, C. (2018). OUP accepted manuscript. *Pain Medicine*, 20(1), 153–160. <https://doi.org/10.1093/pm/pny072>
- Azizian, M., Bagheri, H., Olyaei, G., Shadmehr, A., Okhovatpour, M. A., Dehghan, P., ... Sarafraz, H. (2019). Effects of dry needling on tendon-pulley architecture, pain and hand function in patients with trigger finger: a randomized controlled trial study. *Journal of Physical Therapy Science*, 31(4), 295–298. <https://doi.org/10.1589/jpts.31.295>
- Bağcıer, F. (2019). A New Treatment Modality in Piriformis Syndrome: Ultrasound Guided Dry Needling Treatment. *Ağrı - The Journal of The Turkish Society of Algology*, 32(3). <https://doi.org/10.14744/agri.2019.92170>
- Bağcıer, F. (2019). A New Treatment Modality in Piriformis Syndrome: Ultrasound Guided Dry Needling Treatment. *Ağrı - The Journal of The Turkish Society of Algology*, 32(3). <https://doi.org/10.14744/agri.2019.92170>
- Bagcier, F., & Yilmaz, N. (2020). The Impact of Extracorporeal Shock Wave Therapy and Dry Needling Combination on Pain and Functionality in the Patients Diagnosed with Plantar Fasciitis. *The Journal of Foot and Ankle Surgery*. <https://doi.org/10.1053/j.jfas.2019.09.038>
- Bagcier, F., & Yurdakul, O. V. (2020). A safer way of dry needling therapy for gastrocnemius muscles: ultrasound guidance. *Medical Ultrasonography*, 22(4), 495. <https://doi.org/10.11152/mu-2840>
- Bagcier, F., & Yurdakul, O. V. (2020, November 1). Letter to the Editor regarding: A case with iatrogenic pneumothorax due to deep dry needling. *Radiology Case Reports*. Elsevier Inc. <https://doi.org/10.1016/j.radcr.2020.09.006>
- Bagoji, I. B., Bharatha, A., Prakash, K. G., Hadimani, G. A., Desai, V., & Bulgoud, R. S. (2020). A Morphometric and Radiological Study of Sacral Hiatus in Human Adult Sacra and Its Clinical Relevance in Caudal Epidural Anaesthesia. *Maedica*, 15(4), 468–476. <https://doi.org/10.26574/maedica.2020.15.4.468>

- Baldry, P. (2002). Management of myofascial trigger point pain. *Acupuncture in Medicine : Journal of the British Medical Acupuncture Society*, 20(1), 2–10. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/11926600>
- Ball, A. M., Finnegan, M., Koppenhaver, S., Freres, W., Dommerholt, J., Mayoral del Moral, O., ... Gaffney, E. E. (2019). The relative risk to the femoral nerve as a function of patient positioning: potential implications for trigger point dry needling of the iliacus muscle. *Journal of Manual & Manipulative Therapy*, 1–10. <https://doi.org/10.1080/10669817.2019.1568699>
- Bandy, W. D., Nelson, R., & Beamer, L. (2017). COMPARISON OF DRY NEEDLING VS. SHAM ON THE PERFORMANCE OF VERTICAL JUMP. *International Journal of Sports Physical Therapy*, 12(5), 747–751. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/29181252>
- Baraja-Vegas, L., Martín-Rodríguez, S., Piqueras-Sanchiz, F., Faundez-Aguilera, J., Bautista, I. J., Barrios, C., & Fernández-de-las-Peñas, C. (2019). Localization of Muscle Edema and Changes on Muscle Contractility After Dry Needling of Latent Trigger Points in the Gastrocnemius Muscle. *Pain Medicine*. <https://doi.org/10.1093/pm/pny306>
- Baraja-Vegas, L., Martín-Rodríguez, S., Piqueras-Sanchiz, F., Martín-Ruiz, J., Yeste Fabregat, M., Florencio, L. L., & Fernández-de-las-Peñas, C. (2019). Electromyographic Activity Evolution of Local Twitch Responses During Dry Needling of Latent Trigger Points in the Gastrocnemius Muscle: A Cross-Sectional Study. *Pain Medicine*. <https://doi.org/10.1093/pm/pnz182>
- Berrigan, W. A., Whitehair, C. L., & Zorowitz, R. D. (2019). Acute Spinal Epidural Hematoma as a Complication of Dry Needling: A Case Report. *PM&R*, 11(3), 313–316. <https://doi.org/10.1016/j.pmrj.2018.07.009>
- Biella, G., Sotgiu, M. L., Pellegata, G., Paulesu, E., Castiglioni, I., & Fazio, F. (2001). Acupuncture Produces Central Activations in Pain Regions. *NeuroImage*, 14(1), 60–66. <https://doi.org/10.1006/nimg.2001.0798>
- Billet, B., Wynendaele, R., & Vanquathem, N. E. (2018). A Novel Minimally Invasive Wireless Technology for Neuromodulation via Percutaneous Intercostal Nerve Stimulation for Post-Herpetic Neuralgia: A Case Report with Short-Term Follow-up. *Pain Practice : The Official Journal of World Institute of Pain*, 18(3), 374–379. <https://doi.org/10.1111/papr.12607>
- Blasco-Bonora, P. M., & Martín-Pintado-Zugasti, A. (2017). Effects of myofascial trigger point dry needling in patients with sleep bruxism and temporomandibular disorders: a prospective case series. *Acupuncture in Medicine*, 35(1), 69–74. <https://doi.org/10.1136/acupmed-2016-011102>

- Bochaton-Piallat, M.-L., Gabbiani, G., & Hinz, B. (2016). The myofibroblast in wound healing and fibrosis: answered and unanswered questions. *F1000Research*, 5. <https://doi.org/10.12688/f1000research.8190.1>
- Bond, B. M., & Kinslow, C. (2015). Improvement in clinical outcomes after dry needling in a patient with occipital neuralgia. *The Journal of the Canadian Chiropractic Association*, 59(2), 101–110. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26136602>
- Borg-Stein, J., & Simons, D. G. (2002). Focused review: myofascial pain. *Archives of Physical Medicine and Rehabilitation*, 83(3 Suppl 1), S40-7, S48-9. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/11973695>
- Boyce, D., Wempe, H., Campbell, C., Fuehne, S., Zylstra, E., Smith, G., ... Jones, R. (2020). ADVERSE EVENTS ASSOCIATED WITH THERAPEUTIC DRY NEEDLING. *International Journal of Sports Physical Therapy*, 15(1), 103–113. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/32089962>
- Boyles, R., Fowler, R., Ramsey, D., & Burrows, E. (2015). Effectiveness of trigger point dry needling for multiple body regions: a systematic review. *The Journal of Manual & Manipulative Therapy*, 23(5), 276–293. <https://doi.org/10.1179/2042618615Y.0000000014>
- Bradley, M. H., Rawlins, A., & Brinker, C. A. (2017). Physical Therapy Treatment of Pelvic Pain. *Physical Medicine and Rehabilitation Clinics of North America*. <https://doi.org/10.1016/j.pmr.2017.03.009>
- Brady, S., McEvoy, J., Dommerholt, J., & Doody, C. (2014). Adverse events following trigger point dry needling: a prospective survey of chartered physiotherapists. *The Journal of Manual & Manipulative Therapy*, 22(3), 134–140. <https://doi.org/10.1179/2042618613Y.0000000044>
- Brennan, K. L., Allen, B. C., & Maldonado, Y. M. (2017). Dry Needling Versus Cortisone Injection in the Treatment of Greater Trochanteric Pain Syndrome: A Noninferiority Randomized Clinical Trial. *Journal of Orthopaedic & Sports Physical Therapy*, 47(4), 232–239. <https://doi.org/10.2519/jospt.2017.6994>
- Brennan, K., Elifritz, K. M., Comire, M. M., & Jupiter, D. C. (2020). Rate and maintenance of improvement of myofascial pain with dry needling alone vs. dry needling with intramuscular electrical stimulation: a randomized controlled trial. *The Journal of Manual & Manipulative Therapy*, 1–11. <https://doi.org/10.1080/10669817.2020.1824469>
- Bretschwerdt, C., Rivas-Cano, L., Palomeque-del-Cerro, L., Fernández-de-las-Peñas, C., & Alburquerque-Sendín, F. (2010). Immediate Effects of Hamstring Muscle Stretching on Pressure Pain Sensitivity and Active Mouth Opening in Healthy Subjects. *Journal of Manipulative and Physiological Therapeutics*, 33(1), 42–47. <https://doi.org/10.1016/j.jmpt.2009.11.009>

- Bron, C., & Dommerholt, J. D. (2012). Etiology of myofascial trigger points. *Current Pain and Headache Reports*, 16(5), 439–444. <https://doi.org/10.1007/s11916-012-0289-4>
- Bubnov, R. V. (2010). The use of trigger point “dry” needling under ultrasound guidance for the treatment of myofascial pain (technological innovation and literature review). *Likars'ka Sprava / Ministerstvo Okhorony Zdorov'ia Ukrainy*, (5–6), 56–64. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=cmedm&AN=21485754&site=ehost-live>
- Bukharaeva, E. A., Salakhutdinov, R. I., Vyskocil, F., & Nikolsky, E. E. (2005). Spontaneous quantal and non-quantal release of acetylcholine at mouse endplate during onset of hypoxia. *Physiological Research*, 54(2), 251–255. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/15826238>
- Butts, R., Dunning, J., Pavkovich, R., Mettillie, J., & Mourad, F. (2017). Conservative management of temporomandibular dysfunction: A literature review with implications for clinical practice guidelines (Narrative review part 2). *Journal of Bodywork and Movement Therapies*, 21(3), 541–548. <https://doi.org/10.1016/j.jbmt.2017.05.021>
- Butts, R., Dunning, J., Perreault, T., Mettillie, J., & Escaloni, J. (2017). Pathoanatomical characteristics of temporomandibular dysfunction: Where do we stand? (Narrative review part 1). *Journal of Bodywork and Movement Therapies*, 21(3), 534–540. <https://doi.org/10.1016/j.jbmt.2017.05.017>
- Bynum, R., Garcia, O., Herbst, E., Kossa, M., Liou, K., Cowan, A., & Hilton, C. (2020). Effects of Dry Needling on Spasticity and Range of Motion: A Systematic Review. *American Journal of Occupational Therapy*, 75(1), 7501205030p1. <https://doi.org/10.5014/ajot.2021.041798>
- C, F.-L.-P., A, P.-B., L, L.-A., G, P.-M., AI, D.-L.-R., & MJ, N.-S. (2020). OUP accepted manuscript. *Pain Medicine*. <https://doi.org/10.1093/pm/pnaa392>
- Cagnie, B., Barbe, T., De Ridder, E., Van Oosterwijck, J., Cools, A., & Danneels, L. (2012). The influence of dry needling of the trapezius muscle on muscle blood flow and oxygenation. *Journal of Manipulative and Physiological Therapeutics*, 35(9), 685–691. <https://doi.org/10.1016/j.jmpt.2012.10.005>
- Cagnie, B., Dewitte, V., Barbe, T., Timmermans, F., Delrue, N., & Meeus, M. (2013). Physiologic effects of dry needling. *Current Pain and Headache Reports*, 17(8), 348. <https://doi.org/10.1007/s11916-013-0348-5>
- Calamita, S. A. P., Biasotto-Gonzalez, D. A., De Melo, N. C., Fumagalli, M. A., Amorim, C. F., de Paula Gomes, C. A. F., & Politti, F. (2018). Immediate Effect of Acupuncture on Electromyographic Activity of the Upper Trapezius Muscle and Pain in Patients With Nonspecific Neck Pain: A Randomized, Single-Blinded, Sham-Controlled, Crossover

Study. *Journal of Manipulative and Physiological Therapeutics*, 41(3), 208–217.
<https://doi.org/10.1016/j.jmpt.2017.09.006>

Callan, A. K., Bauer, J. M., & Martus, J. E. (2016). Deep Spine Infection After Acupuncture in the Setting of Spinal Instrumentation. *Spine Deformity*, 4(2), 156–161.
<https://doi.org/10.1016/j.jspd.2015.09.045>

Calvo, S., Quintero, I., & Herrero, P. (2016). Effects of dry needling (DNHS technique) on the contractile properties of spastic muscles in a patient with stroke. *International Journal of Rehabilitation Research*, 39(4). <https://doi.org/10.1097/MRR.000000000000185>

Calvo-Lobo, C., Pacheco-Da-Costa, S., & Hita-Herranz, E. (2017). Efficacy of deep dry needling on latent myofascial trigger points in older adults with nonspecific shoulder pain: A randomized, controlled clinical trial pilot study. *Journal of Geriatric Physical Therapy*, 40(2). <https://doi.org/10.1519/JPT.0000000000000048>

Calvo-Lobo, C., Pacheco-da-Costa, S., Martínez-Martínez, J., Rodríguez-Sanz, D., Cuesta-Álvaro, P., & López-López, D. (2016). Dry Needling on the Infraspinatus Latent and Active Myofascial Trigger Points in Older Adults With Nonspecific Shoulder Pain: A Randomized Clinical Trial. *Journal of Geriatric Physical Therapy* (2001).
<https://doi.org/10.1519/JPT.0000000000000079>

Campa-Moran, I., Rey-Gudin, E., Fernández-Carnero, J., Paris-Aleman, A., Gil-Martinez, A., Lerma Lara, S., ... La Touche, R. (2015). Comparison of Dry Needling versus Orthopedic Manual Therapy in Patients with Myofascial Chronic Neck Pain: A Single-Blind, Randomized Pilot Study. *Pain Research and Treatment*, 2015, 327307.
<https://doi.org/10.1155/2015/327307>

Casanueva, B., Rivas, P., Rodero, B., Quintal, C., Llorca, J., & González-Gay, M. A. (2014). Short-term improvement following dry needle stimulation of tender points in fibromyalgia. *Rheumatology International*, 34(6), 861–866. <https://doi.org/10.1007/s00296-013-2759-3>

Cass, D. L., Sylvester, K. G., Yang, E. Y., Crombleholme, T. M., & Adzick, N. S. (1997). Myofibroblast persistence in fetal sheep wounds is associated with scar formation. *Journal of Pediatric Surgery*, 32(7), 1017–1022. [https://doi.org/10.1016/S0022-3468\(97\)90390-0](https://doi.org/10.1016/S0022-3468(97)90390-0)

Castro Sánchez, A. M., García López, H., Fernández Sánchez, M., Pérez Mármol, J. M., Aguilar-Ferrándiz, M. E., Luque Suárez, A., & Matarán Peñarrocha, G. A. (2018). Improvement in clinical outcomes after dry needling versus myofascial release on pain pressure thresholds, quality of life, fatigue, pain intensity, quality of sleep, anxiety, and depression in patients with fibromyalgia syndrome. *Disability and Rehabilitation*, 1–12.
<https://doi.org/10.1080/09638288.2018.1461259>

Castro-Sanchez, A. M., Garcia-Lopez, H., Mataran-Penarrocha, G. A., Fernandez-Sanchez, M., Fernandez-Sola, C., Granero-Molina, J., & Aguilar-Ferrandiz, M. E. (2017). Effects of Dry Needling on Spinal Mobility and Trigger Points in Patients with Fibromyalgia Syndrome.

Pain Physician, 20(2), 37–52. Retrieved from
<http://www.ncbi.nlm.nih.gov/pubmed/28158152>

- Ceballos-Laita, L., Jiménez-Del-Barrio, S., Marín-Zurdo, J., Moreno-Calvo, A., Marín-Boné, J., Albarova-Corral, M. I., & Estébanez-de-Miguel, E. (2021). EFFECTIVENESS OF DRY NEEDLING THERAPY ON PAIN, HIP MUSCLE STRENGTH AND PHYSICAL FUNCTION IN PATIENTS WITH HIP OSTEOARTHRITIS: A RANDOMIZED CONTROLLED TRIAL. *Archives of Physical Medicine and Rehabilitation*.
<https://doi.org/10.1016/j.apmr.2021.01.077>
- Ceballos-Laita, L., Jiménez-del-Barrio, S., Marín-Zurdo, J., Moreno-Calvo, A., Marín-Boné, J., Albarova-Corral, M. I., & Estébanez-de-Miguel, E. (2020). Effects of dry needling on pain, pressure pain threshold and psychological distress in patients with mild to moderate hip osteoarthritis: Secondary analysis of a randomized controlled trial. *Complementary Therapies in Medicine*, 51, 102443. <https://doi.org/10.1016/j.ctim.2020.102443>
- Ceballos-Laita, L., Jiménez-del-Barrio, S., Marín-Zurdo, J., Moreno-Calvo, A., Marín-Boné, J., Albarova-Corral, M. I., & Estébanez-de-Miguel, E. (2019). Effects of dry needling in HIP muscles in patients with HIP osteoarthritis: A randomized controlled trial. *Musculoskeletal Science and Practice*, 43, 76–82. <https://doi.org/10.1016/j.msksp.2019.07.006>
- Ceccherelli, F., Gioioso, L., Casale, R., Gagliardi, G., & Ori, C. (2010). Neck Pain Treatment With Acupuncture: Does the Number of Needles Matter? *The Clinical Journal of Pain*, 26(9), 807–812. <https://doi.org/10.1097/AJP.0b013e3181e375c9>
- Celik, D., & Mutlu, E. K. (2013). Clinical implication of latent myofascial trigger point. *Current Pain and Headache Reports*, 17(8), 353. <https://doi.org/10.1007/s11916-013-0353-8>
- Cerezo-Téllez, E., Torres-Lacomba, M., Fuentes-Gallardo, I., Perez-Muñoz, M., Mayoral-del-Moral, O., Lluch-Girbés, E., ... Falla, D. (2016). Effectiveness of dry needling for chronic nonspecific neck pain. *PAIN*, 157(9), 1905–1917.
<https://doi.org/10.1097/j.pain.0000000000000591>
- Cerezo-Téllez, E., Torres-Lacomba, M., Mayoral-del-Moral, O., Pacheco-da-Costa, S., Prieto-Merino, D., & Sánchez-Sánchez, B. (2018). Health related quality of life improvement in chronic non-specific neck pain: secondary analysis from a single blinded, randomized clinical trial. *Health and Quality of Life Outcomes*, 16(1), 207.
<https://doi.org/10.1186/s12955-018-1032-6>
- Chang, S., Sang Kwon, O., Bang, S. K., Kim, D. H., Baek, M. W., Ryu, Y., ... Kim, H. Y. (2019). Peripheral sensory nerve tissue but not connective tissue is involved in the action of acupuncture. *Frontiers in Neuroscience*, 13(FEB). <https://doi.org/10.3389/fnins.2019.00110>
- Chassot, M., Dussan-Sarria, J. A., Sehn, F. C., Deitos, A., de Souza, A., Vercelino, R., ... Caumo, W. (2015). Electroacupuncture analgesia is associated with increased serum brain-derived neurotrophic factor in chronic tension-type headache: A randomized, sham

controlled, crossover trial. *BMC Complementary and Alternative Medicine*, 15(1).
<https://doi.org/10.1186/s12906-015-0664-x>

- Chen, J., Li, W., Huang, Y., Zhang, L., Gan, X., Zhang, R., ... Liu, X. (2020). Needling on trigger point promotes muscle regeneration after bupivacaine injection induced injury. *Neuroscience Letters*, 739. <https://doi.org/10.1016/j.neulet.2020.135436>
- Chen, K.-H., Hsiao, K.-Y., Lin, C.-H., Chang, W.-M., Hsu, H.-C., & Hsieh, W.-C. (2013). Remote effect of lower limb acupuncture on latent myofascial trigger point of upper trapezius muscle: a pilot study. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2013, 287184. <https://doi.org/10.1155/2013/287184>
- Chen, Q., Bensamoun, S., Basford, J. R., Thompson, J. M., & An, K.-N. (2007). Identification and quantification of myofascial taut bands with magnetic resonance elastography. *Archives of Physical Medicine and Rehabilitation*, 88(12), 1658–1661. <https://doi.org/10.1016/j.apmr.2007.07.020>
- Chen, Y.-T., Wang, H.-H., Wang, T.-J., Li, Y.-C., & Chen, T.-J. (2016). Early application of low-level laser may reduce the incidence of postherpetic neuralgia (PHN). *Journal of the American Academy of Dermatology*, 75(3), 572–577. <https://doi.org/10.1016/j.jaad.2016.03.050>
- Cheshire, W. P., Abashian, S. W., & Mann, J. D. (1994). Botulinum toxin in the treatment of myofascial pain syndrome. *Pain*, 59(1), 65–69. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/7854804>
- Chevalier, A., Armstrong, K., Norwood-Williams, C., & Gokal, R. (2016). DC Electroacupuncture Effects on Scars and Sutures of a Patient with Postconcussion Pain. *Medical Acupuncture*, 28(4), 223–229. <https://doi.org/10.1089/acu.2016.1188>
- Chia, K. L., & Haberberger, R. V. (2016). A study to investigate needle insertion at Shenshu (BL23) to puncture psoas major muscle. *Journal of Integrative Medicine*, 14(2), 128–133. [https://doi.org/10.1016/S2095-4964\(16\)60246-7](https://doi.org/10.1016/S2095-4964(16)60246-7)
- Chiarotto, A., Clijsen, R., Fernandez-de-Las-Penas, C., & Barbero, M. (2016). Prevalence of Myofascial Trigger Points in Spinal Disorders: A Systematic Review and Meta-Analysis. *Archives of Physical Medicine and Rehabilitation*, 97(2), 316–337. <https://doi.org/10.1016/j.apmr.2015.09.021>
- Chiavaras, M., & Jacobson, J. (2013). Ultrasound-Guided Tendon Fenestration. *Seminars in Musculoskeletal Radiology*, 17(01), 085–090. <https://doi.org/10.1055/s-0033-1333942>
- Chiquet, M., Renedo, A. S., Huber, F., & Flück, M. (2003). How do fibroblasts translate mechanical signals into changes in extracellular matrix production? *Matrix Biology : Journal of the International Society for Matrix Biology*, 22(1), 73–80. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/12714044>

- Chou, L.-W., Hsieh, Y.-L., Chen, H.-S., Hong, C.-Z., Kao, M.-J., & Han, T.-I. (2011). Remote therapeutic effectiveness of acupuncture in treating myofascial trigger point of the upper trapezius muscle. *American Journal of Physical Medicine & Rehabilitation / Association of Academic Physiatrists*, 90(12), 1036–1049.
<https://doi.org/10.1097/PHM.0b013e3182328875>
- Chou, L.-W., Kao, M.-J., & Lin, J.-G. (2012). Probable mechanisms of needling therapies for myofascial pain control. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2012, 705327. <https://doi.org/10.1155/2012/705327>
- Chovatiya, R., & Medzhitov, R. (2014, April 24). Stress, inflammation, and defense of homeostasis. *Molecular Cell*. Cell Press. <https://doi.org/10.1016/j.molcel.2014.03.030>
- Christian, R. A., Rossy, W. H., & Sherman, O. H. (2014). Patellar tendinopathy - recent developments toward treatment. *Bulletin of the Hospital for Joint Disease (2013)*, 72(3), 217–224. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/25429390>
- Christidis, N., Ghafouri, B., Larsson, A., Palstam, A., Mannerkorpi, K., Bileviciute-Ljungar, I., ... Ernberg, M. (2015). Comparison of the Levels of Pro-Inflammatory Cytokines Released in the Vastus Lateralis Muscle of Patients with Fibromyalgia and Healthy Controls during Contractions of the Quadriceps Muscle--A Microdialysis Study. *PloS One*, 10(12), e0143856. <https://doi.org/10.1371/journal.pone.0143856>
- Chu, J. (1997). Does EMG (dry needling) reduce myofascial pain symptoms due to cervical nerve root irritation? *Electromyography and Clinical Neurophysiology*, 37(5), 259–272. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/9298338>
- Chu, J., Neuhauser, D. V, Schwartz, I., & Aye, H. H. (2002). The efficacy of automated/electrical twitch obtaining intramuscular stimulation (atoims/etoims) for chronic pain control: evaluation with statistical process control methods. *Electromyography and Clinical Neurophysiology*, 42(7), 393–401. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/12395614>
- Chu, J., Yuen, K., Wang, B., Chan, R., Schwartz, I., & Neuhauser, D. (2004). Electrical twitch-obtaining intramuscular stimulation in lower back pain: a pilot study. *American Journal of Physical Medicine & Rehabilitation / Association of Academic Physiatrists*, 83(2), 104–111. <https://doi.org/10.1097/01.PHM.0000107485.86594.8B>
- Clement-Jones, V., McLoughlin, L., Tomlin, S., Besser, G. M., Rees, L. H., & Wen, H. L. (1980). Increased beta-endorphin but not met-enkephalin levels in human cerebrospinal fluid after acupuncture for recurrent pain. *Lancet (London, England)*, 2(8201), 946–949. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/6107591>
- Clewley, D., Flynn, T. W., & Koppenhaver, S. (2014). Trigger Point Dry Needling as an Adjunct Treatment for a Patient With Adhesive Capsulitis of the Shoulder. <https://doi.org/10.2519/jospt.2014.4915>

- Cohen, D., Gonzalez, J., & Goldstein, I. (2016). The Role of Pelvic Floor Muscles in Male Sexual Dysfunction and Pelvic Pain. *Sexual Medicine Reviews*.
<https://doi.org/10.1016/j.sxmr.2015.10.001>
- Cohen, J. H., & Gibbons, R. W. (n.d.). Raymond L. Nimmo and the evolution of trigger point therapy, 1929-1986. *Journal of Manipulative and Physiological Therapeutics*, 21(3), 167–172. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/9567236>
- Couto, C., de Souza, I. C. C., Torres, I. L. S., Fregni, F., & Caumo, W. (2014). Paraspinal stimulation combined with trigger point needling and needle rotation for the treatment of myofascial pain: a randomized sham-controlled clinical trial. *The Clinical Journal of Pain*, 30(3), 214–223. <https://doi.org/10.1097/AJP.0b013e3182934b8d>
- Cross, K. M., & McMurray, M. (2017). DRY NEEDLING INCREASES MUSCLE THICKNESS IN A SUBJECT WITH PERSISTENT MUSCLE DYSFUNCTION: A CASE REPORT. *International Journal of Sports Physical Therapy*, 12(3), 468–475. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/28593101>
- Cruz-Montecinos, C., Núñez-Cortés, R., Bruna-Melo, T., Tapia, C., Becerra, P., Pavez, N., & Pérez-Alenda, S. (2018). Dry needling technique decreases spasticity and improves general functioning in incomplete spinal cord injury: A case report. *Journal of Spinal Cord Medicine*. <https://doi.org/10.1080/10790268.2018.1533316>
- Cummings, T. M., & White, A. R. (2001). Needling therapies in the management of myofascial trigger point pain: A systematic review. *Archives of Physical Medicine and Rehabilitation*, 82(7), 986–992. <https://doi.org/10.1053/apmr.2001.24023>
- da Graca-Tarragó, M., Deitos, A., Patrícia Brietzke, A., Torres, I. L. S., Cadore Stefani, L., Fregni, F., & Caumo, W. (2015). Electrical Intramuscular Stimulation in Osteoarthritis Enhances the Inhibitory Systems in Pain Processing at Cortical and Cortical Spinal System. *Pain Medicine (Malden, Mass.)*. <https://doi.org/10.1111/pme.12930>
- Dalpiaz, A., Kuriki, H. U., Barbosa, R. A. P., Diefenthaler, F., Marcolino, A. M., & Barbosa, R. I. (2020). Dry Needling and Photobiomodulation Decreases Myofascial Pain in Trapezius of Women: Randomized Blind Clinical Trial. *Journal of Manipulative and Physiological Therapeutics*. <https://doi.org/10.1016/j.jmpt.2020.07.002>
- Dar, G., & Hicks, G. E. (2016). The immediate effect of dry needling on multifidus muscles' function in healthy individuals. *Journal of Back and Musculoskeletal Rehabilitation*, 29(2), 273–278. <https://doi.org/10.3233/BMR-150624>
- Darrieutort-Laffite, C., Soslowsky, L. J., & Goff, B. Le. (2020, October 1). Molecular and structural effects of percutaneous interventions in chronic achilles tendinopathy. *International Journal of Molecular Sciences*. MDPI AG.
<https://doi.org/10.3390/ijms21197000>

- de la Cruz-Torres, B., Barrera-García-Martín, I., & Albornoz-Cabello, M. (2019). Immediate effects of ultrasound-guided percutaneous neuromodulation versus physical exercise on performance of the flexor hallucis longus muscle in professional dancers: a randomised clinical trial. *Acupuncture in Medicine : Journal of the British Medical Acupuncture Society*, 37(2), 91–97. <https://doi.org/10.1177/0964528419826103>
- De Meulemeester, K., Calders, P., Dewitte, V., Barbe, T., Danneels, L., & Cagnie, B. (2017). Surface Electromyographic Activity of the Upper Trapezius before and after a Single Dry Needling Session in Female Office Workers with Trapezius Myalgia. *American Journal of Physical Medicine and Rehabilitation*, 96(12). <https://doi.org/10.1097/PHM.0000000000000761>
- Deschner, J., Hofman, C. R., Piesco, N. P., & Agarwal, S. (2003). Signal transduction by mechanical strain in chondrocytes. *Current Opinion in Clinical Nutrition and Metabolic Care*, 6(3), 289–293. <https://doi.org/10.1097/01.mco.0000068964.34812.2b>
- Deval, E., Gasull, X., Noël, J., Salinas, M., Baron, A., Diochot, S., & Lingueglia, E. (2010). Acid-Sensing Ion Channels (ASICs): Pharmacology and implication in pain. *Pharmacology & Therapeutics*, 128(3), 549–558. <https://doi.org/10.1016/j.pharmthera.2010.08.006>
- Devereux, F., O'Rourke, B., Byrne, P. J., Byrne, D., & Kinsella, S. (2018). The Effects of Myofascial Trigger Point Release on the Power and Force Production in the Lower Limb Kinetic Chain. *Journal of Strength and Conditioning Research*, 1. <https://doi.org/10.1519/JSC.00000000000002520>
- Diraçoğlu, D., Vural, M., Karan, A., & Aksoy, C. (2012). Effectiveness of dry needling for the treatment of temporomandibular myofascial pain: a double-blind, randomized, placebo controlled study. *Journal of Back and Musculoskeletal Rehabilitation*, 25(4), 285–290. <https://doi.org/10.3233/BMR-2012-0338>
- Doelen, T. Vander, & Manis, A. (2019). Conservative management of Morel-Lavallée lesion: a case study. *The Journal of the Canadian Chiropractic Association*, 63(3), 178–186. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/31988539>
- Domingo, A., Mayoral, O., Monterde, S., & Santafé, M. M. (2013). Neuromuscular damage and repair after dry needling in mice. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2013, 260806. <https://doi.org/10.1155/2013/260806>
- Dommerholt, J. (2011). Dry needling - peripheral and central considerations. *The Journal of Manual & Manipulative Therapy*, 19(4), 223–227. <https://doi.org/10.1179/106698111X13129729552065>
- Dommerholt, J., & Fernández-de-las-Peñas, C. (2013). *Trigger point dry needling : an evidence and clinical-based approach*. Churchill Livingstone.

- Dommerholt, J., Bron, C., & Franssen, J. (2006). Myofascial Trigger Points: An Evidence-Informed Review. *Journal of Manual & Manipulative Therapy*, 14(4), 203–221. <https://doi.org/10.1179/106698106790819991>
- Dommerholt, J., Grieve, R., Finnegan, M., & Hooks, T. (2016). A critical overview of the current myofascial pain literature - July 2016. *Journal of Bodywork and Movement Therapies*, 20(3), 657–671. <https://doi.org/10.1016/j.jbmt.2016.07.009>
- Dommerholt, J., Grieve, R., Layton, M., & Hooks, T. (2015). An evidence-informed review of the current myofascial pain literature--January 2015. *Journal of Bodywork and Movement Therapies*, 19(1), 126–137. <https://doi.org/10.1016/j.jbmt.2014.11.006>
- Dorsher, P. T. (2009). Myofascial Referred-Pain Data Provide Physiologic Evidence of Acupuncture Meridians. *The Journal of Pain*, 10(7), 723–731. <https://doi.org/10.1016/j.jpain.2008.12.010>
- Du, W., Hu, H., Zhang, J., Bao, G., Chen, R., & Quan, R. (2019). The Mechanism of MAPK Signal Transduction Pathway Involved with Electroacupuncture Treatment for Different Diseases. *Evidence-Based Complementary and Alternative Medicine*, 2019, 1–10. <https://doi.org/10.1155/2019/8138017>
- Dunning, J., Butts, R., Fernández-de-Las-Peñas, C., Walsh, S., Goult, C., Gillett, B., ... Young, I. A. (2020). Spinal Manipulation and Electrical Dry Needling in Patients With Subacromial Pain Syndrome: A Multicenter Randomized Clinical Trial. *The Journal of Orthopaedic and Sports Physical Therapy*, 1–46. <https://doi.org/10.2519/jospt.2021.9785>
- Dunning, J., Butts, R., Henry, N., Mourad, F., Brannon, A., Rodriguez, H., ... Fernández-de-las-Peñas, C. (2018). Electrical dry needling as an adjunct to exercise, manual therapy and ultrasound for plantar fasciitis: A multi-center randomized clinical trial. *PLOS ONE*, 13(10), e0205405. <https://doi.org/10.1371/journal.pone.0205405>
- Dunning, J., Butts, R., Young, I., Mourad, F., Galante, V., Bliton, P., ... Fernández-de-las-Peñas, C. (2018). Periosteal Electrical Dry Needling as an Adjunct to Exercise and Manual Therapy for Knee Osteoarthritis. *The Clinical Journal of Pain*, 34(12), 1. <https://doi.org/10.1097/AJP.0000000000000634>
- Dunning, J., Butts, R., Zacharko, N., Fandry, K., Young, I., Wheeler, K., ... Fernández-de-las-Peñas, C. (2020). Spinal manipulation and perineural electrical dry needling in patients with cervicogenic headache: a multi-center randomized clinical trial. *The Spine Journal*. <https://doi.org/10.1016/j.spinee.2020.10.008>
- Eftekharsadat, B., Babaei-Ghazani, A., & Zeinolabedinzadeh, V. (2016). Dry needling in patients with chronic heel pain due to plantar fasciitis: A single-blinded randomized clinical trial. *Medical Journal of the Islamic Republic of Iran*, 30(1).

- Elbadawy, M. A. (2016). Effectiveness of Periosteal Stimulation Therapy and Home Exercise Program in the Rehabilitation of Patients with Advanced Knee Osteoarthritis. *The Clinical Journal of Pain*. <https://doi.org/10.1097/AJP.0000000000000404>
- Escaloni, J., Butts, R., & Dunning, J. (2018). The use of dry needling as a diagnostic tool and clinical treatment for cervicogenic dizziness: a narrative review & case series. *Journal of Bodywork and Movement Therapies*, 22(4). <https://doi.org/10.1016/j.jbmt.2018.02.015>
- Eslamian, F., Jahanjou, F., Dolatkah, N., Pishgahi, A., & Pirani, A. (2020). Relative Effectiveness of Electroacupuncture and Biofeedback in Treatment of Neck and Upper Back Myofascial Pain: a Randomized Clinical Trial". *Archives of Physical Medicine and Rehabilitation*. <https://doi.org/10.1016/j.apmr.2019.12.009>
- Espejo Antúnez, L., Gacimartín García, A., Pérez Cardeñosa, M. R., Cardero Durán, M. A., De la Cruz-Torres, B., & Albornoz-Cabello, M. (2014). Efectos sobre la tensión neural adversa medida mediante test de Slump tras punción seca de punto gatillo miofascial del músculo gastrocnemio. *Fisioterapia*, 36(3). <https://doi.org/10.1016/j.ft.2013.07.002>
- Espejo-Antúnez, L., Tejada, J. F.-H., Albornoz-Cabello, M., Rodríguez-Mansilla, J., de la Cruz-Torres, B., Ribeiro, F., & Silva, A. G. (2017). Dry needling in the management of myofascial trigger points: A systematic review of randomized controlled trials. *Complementary Therapies in Medicine*, 33. <https://doi.org/10.1016/j.ctim.2017.06.003>
- Fan, A. Y., Xu, J., & Li, Y. (2017). Evidence and expert opinions: Dry needling versus acupuncture (II). *Chinese Journal of Integrative Medicine*, 23(2), 83–90. <https://doi.org/10.1007/s11655-017-2800-6>
- Fan, A. Y., Zheng, L., & Yang, G. (2016). Evidence That Dry Needling Is the Intent to Bypass Regulation to Practice Acupuncture in the United States. *Journal of Alternative and Complementary Medicine (New York, N.Y.)*, 22(8), 591–593. <https://doi.org/10.1089/acm.2016.0066>
- Fang, S. (2014). The Successful Treatment of Pain Associated with Scar Tissue Using Acupuncture. *Journal of Acupuncture and Meridian Studies*, 7(5), 262–264. <https://doi.org/10.1016/j.jams.2014.05.001>
- Fernández-Carnero, J., Ge, H.-Y., Kimura, Y., Fernández-de-las-Peñas, C., & Arendt-Nielsen, L. (2010). Increased Spontaneous Electrical Activity at a Latent Myofascial Trigger Point After Nociceptive Stimulation of Another Latent Trigger Point. *The Clinical Journal of Pain*, 26(2), 138–143. <https://doi.org/10.1097/AJP.0b013e3181bad736>
- Fernández-Carnero, J., Gilarranz-de-Frutos, L., León-Hernández, J. V., Pecos-Martin, D., Alguacil-Diego, I., Gallego-Izquierdo, T., & Martín-Pintado-Zugasti, A. (2017). Effectiveness of Different Deep Dry Needling Dosages in the Treatment of Patients With Cervical Myofascial Pain: A Pilot RCT. *American Journal of Physical Medicine & Rehabilitation*, 00(00). <https://doi.org/10.1097/PHM.0000000000000733>

- Fernández-de-las-Peñas, C. (2015). Myofascial Head Pain. *Current Pain and Headache Reports*.
<https://doi.org/10.1007/s11916-015-0503-2>
- Fernández-de-las-Peñas, C., & Dommerholt, J. (2014). Myofascial Trigger Points: Peripheral or Central Phenomenon? *Current Rheumatology Reports*, 16(1), 395.
<https://doi.org/10.1007/s11926-013-0395-2>
- Fernández-de-Las-Peñas, C., Layton, M., & Dommerholt, J. (2015). Dry needling for the management of thoracic spine pain. *The Journal of Manual & Manipulative Therapy*, 23(3), 147–153. <https://doi.org/10.1179/2042618615Y.0000000001>
- Fernández-de-las-Peñas, C., Mesa-Jiménez, J. A., Lopez-Davis, A., Koppenhaver, S. L., & Arias-Buría, J. L. (n.d.). Cadaveric and ultrasonographic validation of needling placement in the obliquus capitis inferior muscle. *Musculoskeletal Science and Practice*, 45, 102075. <https://doi.org/10.1016/j.msksp.2019.102075>
- Fernández-de-las-Peñas, C., Mesa-Jiménez, J. A., Paredes-Mancilla, J. A., Koppenhaver, S. L., & Fernández-Carnero, S. (2017). Cadaveric and Ultrasonographic Validation of Needling Placement in the Cervical Multifidus Muscle. *Journal of Manipulative and Physiological Therapeutics*. <https://doi.org/10.1016/j.jmpt.2017.03.002>
- Fernández-de-Las-Peñas, C., & Nijs, J. (2019). Trigger point dry needling for the treatment of myofascial pain syndrome: current perspectives within a pain neuroscience paradigm. *Journal of Pain Research*, Volume 12, 1899–1911. <https://doi.org/10.2147/JPR.S154728>
- Fernández-De-Las-Peñas, C., Plaza-Manzano, G., Sanchez-Infante, J., Gómez-Chiguano, G. F., Cleland, J. A., Arias-Buría, J. L., ... Navarro-Santana, M. J. (2021). Is Dry Needling Effective When Combined with Other Therapies for Myofascial Trigger Points Associated with Neck Pain Symptoms? A Systematic Review and Meta-Analysis. *Pain Research and Management*, 2021, 1–24. <https://doi.org/10.1155/2021/8836427>
- Ferrer-Peña, R., Calvo-Lobo, C., Gómez, M., & Muñoz-García, D. (2019). Prediction Model for Choosing Needle Length to Minimize Risk of Median Nerve Puncture With Dry Needling of the Pronator Teres. *Journal of Manipulative and Physiological Therapeutics*, 42(5), 366–371. <https://doi.org/10.1016/j.jmpt.2018.11.020>
- Filshie, J., & White, A. (1998). *Medical acupuncture : a Western scientific approach*. Churchill Livingstone.
- Finando, S., & Finando, D. (2011). Fascia and the mechanism of acupuncture. *Journal of Bodywork and Movement Therapies*, 15(2), 168–176.
<https://doi.org/10.1016/j.jbmt.2010.03.001>
- Fitzpatrick, J., Bulsara, M., & Zheng, M. H. (2016). The Effectiveness of Platelet-Rich Plasma in the Treatment of Tendinopathy: A Meta-analysis of Randomized Controlled Clinical Trials. *The American Journal of Sports Medicine*. <https://doi.org/10.1177/0363546516643716>

- Fogelman, Y., & Kent, J. (2015). Efficacy of dry needling for treatment of myofascial pain syndrome. *Journal of Back and Musculoskeletal Rehabilitation*, 28(1), 173–179. <https://doi.org/10.3233/BMR-140547>
- Fox, J. R., Gray, W., Koptiuch, C., Badger, G. J., & Langevin, H. M. (2014). Correction. *Alternative and Complementary Therapies*, 20(5), 290–290. <https://doi.org/10.1089/act.2014.20510>
- Frank, B. L. (1999). Neural therapy. *Physical Medicine and Rehabilitation Clinics of North America*, 10(3), 573–582, viii. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/10516978>
- Funk, M. F., & Frisina-Deyo, A. J. (2020). Dry needling for spine related disorders: a scoping review. *Chiropractic & Manual Therapies*, 28(1), 23. <https://doi.org/10.1186/s12998-020-00310-z>
- Furlan, A. D., van Tulder, M., Cherkin, D., Tsukayama, H., Lao, L., Koes, B., & Berman, B. (2005). Acupuncture and dry-needling for low back pain: an updated systematic review within the framework of the cochrane collaboration. *Spine*, 30(8), 944–963. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/15834340>
- Fusco, P., Di Carlo, S., Scimia, P., Degan, G., Petrucci, E., & Marinangeli, F. (2018). Ultrasound-guided Dry Needling Treatment of Myofascial Trigger Points for Piriformis Syndrome Management: A Case Series. *Journal of Chiropractic Medicine*, 17(3), 198–200. <https://doi.org/10.1016/j.jcm.2018.04.002>
- Ga, H., Choi, J.-H., Park, C.-H., & Yoon, H.-J. (2007). Acupuncture needling versus lidocaine injection of trigger points in myofascial pain syndrome in elderly patients--a randomised trial. *Acupuncture in Medicine : Journal of the British Medical Acupuncture Society*, 25(4), 130–136. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/18160923>
- Ga, H., Koh, H.-J., Choi, J.-H., & Kim, C.-H. (2007). Intramuscular and nerve root stimulation vs lidocaine injection to trigger points in myofascial pain syndrome. *Journal of Rehabilitation Medicine*, 39(5), 374–378. <https://doi.org/10.2340/16501977-0058>
- Gallego-Sendarrubias, G. M., Rodríguez-Sanz, D., Calvo-Lobo, C., & Martín, J. L. (2020). Efficacy of dry needling as an adjunct to manual therapy for patients with chronic mechanical neck pain: a randomised clinical trial. *Acupuncture in Medicine : Journal of the British Medical Acupuncture Society*, acupmed2018011682. <https://doi.org/10.1136/acupmed-2018-011682>
- Garcia-de-Miguel, S., Pecos-Martin, D., Larroca-Sanz, T., Sanz-de-Vicente, B., Garcia-Montes, L., Fernandez-Matias, R., & Gallego-Izquierdo, T. (2020). Short-Term Effects of PENS versus Dry Needling in Subjects with Unilateral Mechanical Neck Pain and Active Myofascial Trigger Points in Levator Scapulae Muscle: A Randomized Controlled Trial. *Journal of Clinical Medicine*, 9(6), 1665. <https://doi.org/10.3390/jcm9061665>

- Gascon-Garcia, J., Bagur-Calafat, C., Girabent-Farrés, M., & Balius, R. (2018). Validation of the range of dry needling with the fascial winding technique in the carpal tunnel using ultrasound. *Journal of Bodywork and Movement Therapies*, 22(2), 348–353. <https://doi.org/10.1016/j.jbmt.2017.10.013>
- Gattie, E. R., Cleland, J. A., & Snodgrass, S. J. (2017). Dry Needling for Patients With Neck Pain: Protocol of a Randomized Clinical Trial. *JMIR Research Protocols*, 6(11), e227. <https://doi.org/10.2196/resprot.7980>
- Gattie, E., Cleland, J. A., & Snodgrass, S. (2020). A survey of American physical therapists' current practice of dry needling: Practice patterns and adverse events. *Musculoskeletal Science and Practice*, 50. <https://doi.org/10.1016/j.msksp.2020.102255>
- Gattie, E., Cleland, J. A., & Snodgrass, S. (2017). The Effectiveness of Trigger Point Dry Needling for Musculoskeletal Conditions by Physical Therapists: A Systematic Review and Meta-analysis. *Journal of Orthopaedic & Sports Physical Therapy*, 1–41. <https://doi.org/10.2519/jospt.2017.7096>
- Gaubeca-Gilarranz, A., Fernández-de-las-Peñas, C., Medina-Torres, J. R., Seoane-Ruiz, J. M., Company-Palónés, A., Cleland, J. A., & Arias-Burúa, J. L. (2018). Effectiveness of dry needling of rectus abdominis trigger points for the treatment of primary dysmenorrhoea: a randomised parallel-group trial. *Acupuncture in Medicine*, acupmed-2017-011566. <https://doi.org/10.1136/acupmed-2017-011566>
- Gautam, M., Benson, C. J., & Sluka, K. A. (2010). Increased response of muscle sensory neurons to decreases in pH after muscle inflammation. *Neuroscience*, 170(3), 893–900. <https://doi.org/10.1016/j.neuroscience.2010.08.003>
- Ge, H.-Y., Arendt-Nielsen, L., & Madeleine, P. (2012). Accelerated muscle fatigability of latent myofascial trigger points in humans. *Pain Medicine (Malden, Mass.)*, 13(7), 957–964. <https://doi.org/10.1111/j.1526-4637.2012.01416.x>
- Ge, H.-Y., Fernández-de-Las-Peñas, C., & Yue, S.-W. (2011). Myofascial trigger points: spontaneous electrical activity and its consequences for pain induction and propagation. *Chinese Medicine*, 6, 13. <https://doi.org/10.1186/1749-8546-6-13>
- Gerardi, M. R., Vance, W., Smith, R. L., Griggs, J., Patten, C., Dixon, A., & Dunning, K. (2020, February 14). Determining Ideal Positioning for Maximal Muscle Thickness for Safe Dry Needling of the Levator Scapulae. APTA.
- Gerber, L. H., Shah, J., Rosenberger, W., Armstrong, K., Turo, D., Otto, P., ... Sikdar, S. (2015). Dry needling alters trigger points in the upper trapezius muscle and reduces pain in subjects with chronic myofascial pain. *PM and R*, 7(7). <https://doi.org/10.1016/j.pmrj.2015.01.020>
- Gerber, L. H., Sikdar, S., Aredo, J. V., Armstrong, K., Rosenberger, W. F., Shao, H., & Shah, J. P. (2017). Beneficial Effects of Dry Needling for Treatment of Chronic Myofascial Pain

Persist for 6 Weeks After Treatment Completion. *PM&R*, 9(2), 105–112.
<https://doi.org/10.1016/j.pmrj.2016.06.006>

Gerwin, R. D., Shannon, S., Hong, C. Z., Hubbard, D., & Gevirtz, R. (1997). Interrater reliability in myofascial trigger point examination. *Pain*, 69(1–2), 65–73. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/9060014>

Ghaffari, M. S., shariat, A., Honarpishe, R., Hakakzadeh, A., Cleland, J. A., Haghighi, S., & Barghi, T. S. (2019). Concurrent Effects of Dry Needling and Electrical Stimulation in the Management of Upper Extremity Hemiparesis. *Journal of Acupuncture and Meridian Studies*. <https://doi.org/10.1016/j.jams.2019.04.004>

Ghoname, E. A., Craig, W. F., White, P. F., Ahmed, H. E., Hamza, M. A., Gajraj, N. M., ... Noe, C. E. (1999). The Effect of Stimulus Frequency on the Analgesic Response to Percutaneous Electrical Nerve Stimulation in Patients with Chronic Low Back Pain. *Anesthesia & Analgesia*, 88(4), 841–846. <https://doi.org/10.1097/00000539-199904000-00030>

Gibson, W., Arendt-Nielsen, L., & Graven-Nielsen, T. (2006). Referred pain and hyperalgesia in human tendon and muscle belly tissue. *Pain*, 120(1–2), 113–123.
<https://doi.org/10.1016/j.pain.2005.10.023>

Gibson, W., Wand, B. M., Meads, C., Catley, M. J., & O'Connell, N. E. (2019). Transcutaneous electrical nerve stimulation (TENS) for chronic pain - an overview of Cochrane Reviews. *Cochrane Database of Systematic Reviews*.
<https://doi.org/10.1002/14651858.cd011890.pub3>

Gildir, S., Tüzün, E. H., Eroğlu, G., & Eker, L. (2019). A randomized trial of trigger point dry needling versus sham needling for chronic tension-type headache. *Medicine*, 98(8).
<https://doi.org/10.1097/MD.00000000000014520>

Girasol, C. E., Dibai-Filho, A. V., de Oliveira, A. K., & de Jesus Guirro, R. R. (2018). Correlation Between Skin Temperature Over Myofascial Trigger Points in the Upper Trapezius Muscle and Range of Motion, Electromyographic Activity, and Pain in Chronic Neck Pain Patients. *Journal of Manipulative and Physiological Therapeutics*, 41(4), 350–357. <https://doi.org/10.1016/j.jmpt.2017.10.009>

Glatte, P., Buchmann, S. J., Hijazi, M. M., Illigens, B. M.-W., & Siepmann, T. (2019). Architecture of the Cutaneous Autonomic Nervous System. *Frontiers in Neurology*, 10, 970. <https://doi.org/10.3389/fneur.2019.00970>

Göbel, H., Heinze, A., Reichel, G., Hefter, H., Benecke, R., & Dysport myofascial pain study group. (2006). Efficacy and safety of a single botulinum type A toxin complex treatment (Dysport) for the relief of upper back myofascial pain syndrome: results from a randomized double-blind placebo-controlled multicentre study. *Pain*, 125(1–2), 82–88.
<https://doi.org/10.1016/j.pain.2006.05.001>

- Gollub, R. L., Hui, K. K., & Stefano, G. B. (1999). Acupuncture: pain management coupled to immune stimulation. *Zhongguo Yao Li Xue Bao = Acta Pharmacologica Sinica*, 20(9), 769–777. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/11245083>
- González-Iglesias, J., Cleland, J. A., Neto, F., Hall, T., & Fernández-de-las-Peñas, C. (2013). Mobilization with movement, thoracic spine manipulation, and dry needling for the management of temporomandibular disorder: A prospective case series. *Physiotherapy Theory and Practice*, 29(8). <https://doi.org/10.3109/09593985.2013.783895>
- Gonzalez-Perez, L.-M. L.-M., Infante-Cossio, P., Granados-Nunez, M., Urresti-Lopez, F.-J. F.-J., Lopez-Martos, R., & Ruiz-Canela-Mendez, P. (2015). Deep dry needling of trigger points located in the lateral pterygoid muscle: Efficacy and safety of treatment for management of myofascial pain and temporomandibular dysfunction. *Medicina Oral, Patologia Oral y Cirugia Bucal*, 20(3), e326-33. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/25662558>
- Griswold, D., Wilhelm, M., Donaldson, M., Learman, K., & Cleland, J. (2019). The effectiveness of superficial versus deep dry needling or acupuncture for reducing pain and disability in individuals with spine-related painful conditions: a systematic review with meta-analysis. *Journal of Manual and Manipulative Therapy*, 27(3), 128–140. <https://doi.org/10.1080/10669817.2019.1589030>
- Grosman-Rimon, L., Parkinson, W., Upadhye, S., Clarke, H., Katz, J., Flannery, J., ... Kumbhare, D. (2016). Circulating biomarkers in acute myofascial pain. *Medicine*, 95(37), e4650. <https://doi.org/10.1097/MD.0000000000004650>
- Gunn, C. C., Milbrandt, W. E., Little, A. S., & Mason, K. E. (1980). Dry needling of muscle motor points for chronic low-back pain: A randomized clinical trial with long-term follow-up. *Spine*, 5(3), 279–291. Retrieved from <http://www.scopus.com/inward/record.url?eid=2-s2.0-0018963685&partnerID=tZOtx3y1>
- Gunn, C. C. (1996). *The Gunn approach to the treatment of chronic pain : intramuscular stimulation for myofascial pain of radiculopathic origin*. Churchill Livingstone.
- Hadi, S., Khadijeh, O., Hadian, M., Niloofar, A. Y., Olyaei, G., Hossein, B., ... Herrero, P. (2018). The effect of dry needling on spasticity, gait and muscle architecture in patients with chronic stroke: A case series study. *Topics in Stroke Rehabilitation*, 1–7. <https://doi.org/10.1080/10749357.2018.1460946>
- Hakim, I. K., Takamjani, I. E., Sarrafzadeh, J., Ezzati, K., & Bagheri, R. (2019). The effect of dry needling on the active trigger point of upper trapezius muscle: Eliciting local twitch response on long-term clinical outcomes. *Journal of Back and Musculoskeletal Rehabilitation*, 1–8. <https://doi.org/10.3233/BMR-181286>
- Haładaj, R., Pingot, M., Polgaj, M., Wysiadecki, G., & Topol, M. (2015). Anthropometric Study of the Piriformis Muscle and Sciatic Nerve: A Morphological Analysis in a Polish

Population. *Medical Science Monitor : International Medical Journal of Experimental and Clinical Research*, 21, 3760–3768. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26629744>

Halle, J. S., & Halle, R. J. (2016). PERTINENT DRY NEEDLING CONSIDERATIONS FOR MINIMIZING ADVERSE EFFECTS - PART TWO. *International Journal of Sports Physical Therapy*, 11(5), 810–819. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/27757293>

Halle, J. S., & Halle, R. J. (2016). PERTINENT DRY NEEDLING CONSIDERATIONS FOR MINIMIZING ADVERSE EFFECTS - PART ONE. *International Journal of Sports Physical Therapy*, 11(4), 651–662. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/27525188>

Halle, R., Crowell, M., & Goss, D. (2020). DRY NEEDLING AND PHYSICAL THERAPY VERSUS PHYSICAL THERAPY ALONE FOLLOWING SHOULDER STABILIZATION REPAIR: A RANDOMIZED CLINICAL TRIAL. *International Journal of Sports Physical Therapy*, 15(1), 81–102. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/32089961>

Han, T.-I., Hong, C.-Z., Kuo, F.-C., Hsieh, Y.-L., Chou, L.-W., & Kao, M.-J. (2012). Mechanical pain sensitivity of deep tissues in children--possible development of myofascial trigger points in children. *BMC Musculoskeletal Disorders*, 13, 13. <https://doi.org/10.1186/1471-2474-13-13>

Han, Z., Jiang, Y. H., Wan, Y., Wang, Y., Chang, J. K., & Han, J. S. (1999). Endomorphin-1 mediates 2 Hz but not 100 Hz electroacupuncture analgesia in the rat. *Neuroscience Letters*, 274(2), 75–78. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/10553941>

Hannah, M. C., Cope, J., Palermo, A., Smith, W., & Wacker, V. (2016). Comparison of two angles of approach for trigger point dry needling of the lumbar multifidus in human donors (cadavers). *Manual Therapy*, 26, 160–164. <https://doi.org/10.1016/j.math.2016.08.008>

Haser, C., Stöggel, T., Kriner, M., Mikoleit, J., Wolfahrt, B., Scherr, J., ... Pfab, F. (2017). Effect of Dry Needling on Thigh Muscle Strength and Hip Flexion in Elite Soccer Players. *Medicine and Science in Sports and Exercise*, 49(2), 378–383. <https://doi.org/10.1249/MSS.0000000000001111>

He, C., & Ma, H. (2017). Effectiveness of trigger point dry needling for plantar heel pain: A meta-analysis of seven randomized controlled trials. *Journal of Pain Research*, 10. <https://doi.org/10.2147/JPR.S141607>

He, G.-H., Ruan, J.-W., Zeng, Y.-S., Zhou, X., Ding, Y., & Zhou, G.-H. (2015). Improvement in acupoint selection for acupuncture of nerves surrounding the injury site: electro-acupuncture with Governor vessel with local meridian acupoints. *Neural Regeneration Research*, 10(1), 128–135. <https://doi.org/10.4103/1673-5374.150720>

- He, Q. X., Pan, S. T., Chen, Y. R., & Ma, T. M. (2019). Lower frequency electroacupuncture is better in promoting recovery of limb locomotion in rats with sciatic nerve injury by reducing local inflammatory reaction. *Zhen Ci Yan Jiu = Acupuncture Research*, 44(8), 571–576. <https://doi.org/10.13702/j.1000-0607.180843>
- Hightower, J. M., Dalessandri, K. M., Pope, K., & Hernández, G. T. (2017). Low 25-Hydroxyvitamin D and Myofascial Pain: Association of Cancer, Colon Polyps, and Tendon Rupture. *Journal of the American College of Nutrition*, 36(6), 455–461. <https://doi.org/10.1080/07315724.2017.1320951>
- Hinz, B. (2007). Formation and Function of the Myofibroblast during Tissue Repair. *Journal of Investigative Dermatology*, 127(3), 526–537. <https://doi.org/10.1038/sj.jid.5700613>
- Hong, C. Z., & Simons, D. G. (1998). Pathophysiologic and electrophysiologic mechanisms of myofascial trigger points. *Archives of Physical Medicine and Rehabilitation*, 79(7), 863–872. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/9685106>
- Hong, C. Z. (2013). Needling therapy for myofascial pain control. *Evidence-Based Complementary and Alternative Medicine*. <https://doi.org/10.1155/2013/946597>
- Hong, C.-Z. (2002). New trends in myofascial pain syndrome. *Zhonghua Yi Xue Za Zhi = Chinese Medical Journal; Free China Ed*, 65(11), 501–512. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/12583512>
- Hong, C.-Z. (2006). Treatment of myofascial pain syndrome. *Current Pain and Headache Reports*, 10(5), 345–349. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/16945250>
- Hong, C.-Z., Chen, Y.-C., Pon, C. H., & Yu, J. (1993). Immediate Effects of Various Physical Medicine Modalities on Pain Threshold of an Active Myofascial Trigger Point. *Journal of Musculoskeletal Pain*, 1(2), 37–53. https://doi.org/10.1300/J094v01n02_04
- Horowitz, S. (2014, October). Erratum: Omega-3 fatty acids for disease prevention and treatment (Alternative and Complementary Therapies) doi: 10.1089/act.2014.20409. *Alternative and Complementary Therapies*. <https://doi.org/10.1089/act.2014.20510>
- Horst, A., de Souza, J. A., Santos, M. C. Q., Riffel, A. P. K., Kolberg, C., & Partata, W. A. (2017). Effects of N-acetylcysteine on spinal cord oxidative stress biomarkers in rats with neuropathic pain. *Brazilian Journal of Medical and Biological Research = Revista Brasileira de Pesquisas Medicas e Biologicas*, 50(12), e6533. <https://doi.org/10.1590/1414-431X20176533>
- Hoyle, J. A., Marras, W. S., Sheedy, J. E., & Hart, D. E. (2011). Effects of postural and visual stressors on myofascial trigger point development and motor unit rotation during computer work. *Journal of Electromyography and Kinesiology*, 21(1), 41–48. <https://doi.org/10.1016/j.jelekin.2010.04.006>

- Hsieh, J. C., Tu, C. H., Chen, F. P., Chen, M. C., Yeh, T. C., Cheng, H. C., ... Ho, L. T. (2001). Activation of the hypothalamus characterizes the acupuncture stimulation at the analgesic point in human: a positron emission tomography study. *Neuroscience Letters*, 307(2), 105–108. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/11427311>
- Hsieh, Y.-L., Chou, L.-W., Joe, Y.-S., & Hong, C.-Z. (2011). Spinal Cord Mechanism Involving the Remote Effects of Dry Needling on the Irritability of Myofascial Trigger Spots in Rabbit Skeletal Muscle. *Archives of Physical Medicine and Rehabilitation*, 92(7), 1098–1105. <https://doi.org/10.1016/j.apmr.2010.11.018>
- Hsieh, Y.-L., Kao, M.-J., Kuan, T.-S., Chen, S.-M., Chen, J.-T., & Hong, C.-Z. (2007). Dry Needling to a Key Myofascial Trigger Point May Reduce the Irritability of Satellite MTrPs. *American Journal of Physical Medicine & Rehabilitation*, 86(5), 397–403. <https://doi.org/10.1097/PHM.0b013e31804a554d>
- Hsieh, Y.-L., Yang, C.-C., Liu, S.-Y., Chou, L.-W., & Hong, C.-Z. (2014). Remote dose-dependent effects of dry needling at distant myofascial trigger spots of rabbit skeletal muscles on reduction of substance P levels of proximal muscle and spinal cords. *BioMed Research International*, 2014, 982121. <https://doi.org/10.1155/2014/982121>
- Hsieh, Y.-L., Yang, S.-A., Yang, C.-C., & Chou, L.-W. (2012). Dry needling at myofascial trigger spots of rabbit skeletal muscles modulates the biochemicals associated with pain, inflammation, and hypoxia. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2012, 342165. <https://doi.org/10.1155/2012/342165>
- Hu, M. S.-M., Rennert, R. C., McArdle, A., Chung, M. T., Walmsley, G. G., Longaker, M. T., & Lorenz, H. P. (2014). The Role of Stem Cells During Scarless Skin Wound Healing. *Advances in Wound Care*, 3(4), 304–314. <https://doi.org/10.1089/wound.2013.0471>
- Huang, W., Pach, D., Napadow, V., Park, K., Long, X., Neumann, J., ... Witt, C. M. (2012). Characterizing acupuncture stimuli using brain imaging with fMRI - a systematic review and meta-analysis of the literature. *PLoS ONE*, 7(4). <https://doi.org/10.1371/journal.pone.0032960>
- Huang, Y.-T., Lin, S.-Y., Neoh, C.-A., Wang, K.-Y., Jean, Y.-H., & Shi, H.-Y. (2011). Dry needling for myofascial pain: prognostic factors. *Journal of Alternative and Complementary Medicine (New York, N.Y.)*, 17(8), 755–762. <https://doi.org/10.1089/acm.2010.0374>
- Hui, K. K., Liu, J., Makris, N., Gollub, R. L., Chen, A. J., Moore, C. I., ... Kwong, K. K. (2000). Acupuncture modulates the limbic system and subcortical gray structures of the human brain: evidence from fMRI studies in normal subjects. *Human Brain Mapping*, 9(1), 13–25. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/10643726>
- Hui, K. K., Nixon, E. E., Vangel, M. G., Liu, J., Marina, O., Napadow, V., ... Kennedy, D. N. (2007). Characterization of the deqi response in acupuncture. *BMC Complementary and Alternative Medicine*, 7(1), 33. <https://doi.org/10.1186/1472-6882-7-33>

- Itoh, K., Katsumi, Y., Hirota, S., & Kitakoji, H. (2007). Randomised trial of trigger point acupuncture compared with other acupuncture for treatment of chronic neck pain. *Complementary Therapies in Medicine*, 15(3), 172–179. <https://doi.org/10.1016/j.ctim.2006.05.003>
- Itoh, K., Minakawa, Y., & Kitakoji, H. (2011). Effect of acupuncture depth on muscle pain. *Chinese Medicine*, 6(1), 24. <https://doi.org/10.1186/1749-8546-6-24>
- Jacobson, J. A., Rubin, J., Yablon, C. M., Kim, S. M., Kalume-Brigido, M., & Parameswaran, A. (2015). Ultrasound-Guided Fenestration of Tendons About the Hip and Pelvis. *Journal of Ultrasound in Medicine*, 34(11), 2029–2035. <https://doi.org/10.7863/ultra.15.01009>
- Jacobson, J. A., Yablon, C. M., Henning, P. T., Kazmers, I. S., Urquhart, A., Hallstrom, B., ... Parameswaran, A. (2016). Greater Trochanteric Pain Syndrome. *Journal of Ultrasound in Medicine*, 35(11), 2413–2420. <https://doi.org/10.7863/ultra.15.11046>
- Jacobson, J., Kim, S., & Brigido, M. (2016). Ultrasound-Guided Percutaneous Tenotomy. *Seminars in Musculoskeletal Radiology*, 20(05), 414–421. <https://doi.org/10.1055/s-0036-1597545>
- James, S. L. J., Ali, K., Pocock, C., Robertson, C., Walter, J., Bell, J., ... Bradshaw, C. (2007). Ultrasound guided dry needling and autologous blood injection for patellar tendinosis * COMMENTARY. *British Journal of Sports Medicine*, 41(8), 518–521. <https://doi.org/10.1136/bjism.2006.034686>
- Jayaseelan, D. J., Moats, N., & Ricardo, C. R. (2014). Rehabilitation of proximal hamstring tendinopathy utilizing eccentric training, lumbopelvic stabilization, and trigger point dry needling: 2 case reports. *The Journal of Orthopaedic and Sports Physical Therapy*, 44(3), 198–205. <https://doi.org/10.2519/jospt.2014.4905>
- Ju, Z., Guo, X., Jiang, X., Wang, X., Liu, S., He, J., ... Wang, K. (2015). Electroacupuncture with different current intensities to treat knee osteoarthritis: a single-blinded controlled study. *International Journal of Clinical and Experimental Medicine*, 8(10), 18981–18989. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26770523>
- Kalichman, L., & Vulfsons, S. (2010). Dry needling in the management of musculoskeletal pain. *Journal of the American Board of Family Medicine : JABFM*, 23(5), 640–646. <https://doi.org/10.3122/jabfm.2010.05.090296>
- Kao, M.-J., Han, T.-I., Kuan, T.-S., Hsieh, Y.-L., Su, B.-H., & Hong, C.-Z. (2007). Myofascial trigger points in early life. *Archives of Physical Medicine and Rehabilitation*, 88(2), 251–254. <https://doi.org/10.1016/j.apmr.2006.11.004>
- Karavis, M. Y., Argyra, E., Segredos, V., Yiallouroy, A., Giokas, G., & Theodosopoulos, T. (2015). Acupuncture-induced haemothorax: a rare iatrogenic complication of acupuncture.

Acupuncture in Medicine : Journal of the British Medical Acupuncture Society, 33(3), 237–241. <https://doi.org/10.1136/acupmed-2014-010700>

Kazal, L. A., & Karlson, K. A. (2015). Osteitis Pubis: Successful Treatment Using Medical Acupuncture. *Medical Acupuncture*, 27(1), 38–41. <https://doi.org/10.1089/acu.2014.1088>

Kearns, G., Fernández-De-Las-Peñas, C., Brismée, J.-M., Gan, J., & Doidge, J. (2019). New perspectives on dry needling following a medical model: are we screening our patients sufficiently? *The Journal of Manual & Manipulative Therapy*, 27(3), 172–179. <https://doi.org/10.1080/10669817.2019.1567011>

Kearns, G., Gilbert, K. K., Allen, B., Sizer, P. S., Brismée, J.-M., Pendergrass, T., ... York, D. (2018). Accuracy and safety of dry needle placement in the piriformis muscle in cadavers. *Journal of Manual & Manipulative Therapy*, 26(2), 89–96. <https://doi.org/10.1080/10669817.2017.1346745>

Khanittanuphong, P., & Upho, P. (2020). Day of peak pain reduction by a single session of dry needling in the upper trapezius myofascial trigger points: A 14 daily follow-up study. *Journal of Bodywork and Movement Therapies*, 24(4), 7–12. <https://doi.org/10.1016/j.jbmt.2020.06.040>

Khosrawi, S., Moghtaderi, A., & Haghighat, S. (2012). Acupuncture in treatment of carpal tunnel syndrome: A randomized controlled trial study. *Journal of Research in Medical Sciences : The Official Journal of Isfahan University of Medical Sciences*, 17(1), 1–7. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/23248650>

Kietrys, D. M., Palombaro, K. M., Azzaretto, E., Hubler, R., Schaller, B., Schlusser, J. M., & Tucker, M. (2013). Effectiveness of dry needling for upper-quarter myofascial pain: a systematic review and meta-analysis. *The Journal of Orthopaedic and Sports Physical Therapy*, 43(9), 620–634. <https://doi.org/10.2519/jospt.2013.4668>

Kietrys, D. M., Palombaro, K. M., & Mannheimer, J. S. (2014). Dry needling for management of pain in the upper quarter and craniofacial region. *Current Pain and Headache Reports*, 18(8), 437. <https://doi.org/10.1007/s11916-014-0437-0>

Kim, D. C., Glenzer, S., Johnson, A., & Nimityongskul, P. (2018). Deep Infection Following Dry Needling in a Young Athlete. *JBJS Case Connector*, 8(3), e73. <https://doi.org/10.2106/JBJS.CC.18.00097>

Kim, Y. S., Lee, H. J., Kim, Y. V., & Kong, C. G. (2014). Which method is more effective in treatment of calcific tendinitis in the shoulder? Prospective randomized comparison between ultrasound-guided needling and extracorporeal shock wave therapy. *Journal of Shoulder and Elbow Surgery*, 23(11), 1640–1646. <https://doi.org/10.1016/j.jse.2014.06.036>

- Kimura, K., Ryujin, T., Uno, M., & Wakayama, I. (2015). The Effect of Electroacupuncture with Different Frequencies on Muscle Oxygenation in Humans. *Evidence-Based Complementary and Alternative Medicine*, 2015, 1–6. <https://doi.org/10.1155/2015/620785>
- Kizhakkeveetil, A., Rose, K. A., Kadar, G. E., & Hurwitz, E. L. (2017). Integrative Acupuncture and Spinal Manipulative Therapy Versus Either Alone for Low Back Pain: A Randomized Controlled Trial Feasibility Study. *Journal of Manipulative and Physiological Therapeutics*, 40(3), 201–213. <https://doi.org/10.1016/j.jmpt.2017.01.002>
- Ko, J. H., & Kim, S.-N. (2019). MicroRNA in Acupuncture Studies: Does Small RNA Shed Light on the Biological Mechanism of Acupuncture? *Evidence-Based Complementary and Alternative Medicine*, 2019, 1–8. <https://doi.org/10.1155/2019/3051472>
- Koca, I., Tutoglu, A., Boyaci, A., Ucar, M., Yagiz, E., Isik, M., & Bahsi, A. (2014). A comparison of the effectiveness of low-, moderate- and high-dose ultrasound therapy applied in the treatment of myofascial pain syndrome. *Modern Rheumatology / the Japan Rheumatism Association*, 24(4), 662–666. <https://doi.org/10.3109/14397595.2013.860001>
- Kong, J., Ma, L., Gollub, R. L., Wei, J., Yang, X., Li, D., ... Zhuang, D. (2002). A Pilot Study of Functional Magnetic Resonance Imaging of the Brain During Manual and Electroacupuncture Stimulation of Acupuncture Point (LI-4 Hegu) in Normal Subjects Reveals Differential Brain Activation Between Methods. *The Journal of Alternative and Complementary Medicine*, 8(4), 411–419. <https://doi.org/10.1089/107555302760253603>
- Koppenhaver, S. L., Walker, M. J., Rettig, C., Davis, J., Nelson, C., Su, J., ... Hebert, J. J. (2016). The association between dry needling-induced twitch response and change in pain and muscle function in patients with low back pain: a quasi-experimental study. *Physiotherapy*. <https://doi.org/10.1016/j.physio.2016.05.002>
- Koppenhaver, S. L., Walker, M. J., Smith, R. W., Booker, J. M., Walkup, I. D., Su, J., ... Flynn, T. (2015). Baseline Examination Factors Associated With Clinical Improvement After Dry Needling in Individuals With Low Back Pain. *The Journal of Orthopaedic and Sports Physical Therapy*, 45(8), 604–612. <https://doi.org/10.2519/jospt.2015.5801>
- Koppenhaver, S. L., Walker, M. J., Su, J., McGowen, J. M., Umlauf, L., Harris, K. D., & Ross, M. D. (2015). Changes in lumbar multifidus muscle function and nociceptive sensitivity in low back pain patient responders versus non-responders after dry needling treatment. *Manual Therapy*, 20(6), 769–776. <https://doi.org/10.1016/j.math.2015.03.003>
- Krey, D., Borchers, J., & McCamey, K. (2015). Tendon needling for treatment of tendinopathy: A systematic review. *The Physician and Sportsmedicine*, 43(1), 80–86. <https://doi.org/10.1080/00913847.2015.1004296>
- Kuan, T.-S. (2009). Current studies on myofascial pain syndrome. *Current Pain and Headache Reports*, 13(5), 365–369. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/19728962>

- Kuan, T.-S., Hsieh, Y.-L., Chen, S.-M., Chen, J.-T., Yen, W.-C., & Hong, C.-Z. (2007). The Myofascial Trigger Point Region. *American Journal of Physical Medicine & Rehabilitation*, 86(3), 183–189. <https://doi.org/10.1097/PHM.0b013e3180320ea7>
- Kubo, K., Yajima, H., Takayama, M., Ikebukuro, T., Mizoguchi, H., & Takakura, N. (2011). Changes in Blood Circulation of the Contralateral Achilles Tendon During and After Acupuncture and Heating. *International Journal of Sports Medicine*, 32(10), 807–813. <https://doi.org/10.1055/s-0031-1277213>
- Kubo, K., Yajima, H., Takayama, M., Ikebukuro, T., Mizoguchi, H., & Takakura, N. (2010). Effects of acupuncture and heating on blood volume and oxygen saturation of human Achilles tendon in vivo. *European Journal of Applied Physiology*, 109(3), 545–550. <https://doi.org/10.1007/s00421-010-1368-z>
- Kulkarni, O. P., Lichtnekert, J., Anders, H.-J., & Mulay, S. R. (2016). The Immune System in Tissue Environments Regaining Homeostasis after Injury: Is “Inflammation” Always Inflammation? *Mediators of Inflammation*, 2016, 2856213. <https://doi.org/10.1155/2016/2856213>
- Kütük, S. G., Özkan, Y., Kütük, M., & Özdaş, T. (2019). Comparison of the Efficacies of Dry Needling and Botox Methods in the Treatment of Myofascial Pain Syndrome Affecting the Temporomandibular Joint. *Journal of Craniofacial Surgery*, 30(5), 1556–1559. <https://doi.org/10.1097/SCS.00000000000005473>
- Kwon, M., Yoon, H., & Kim, B. (2016). Regeneration-associated macrophages: a novel approach to boost intrinsic regenerative capacity for axon regeneration. *Neural Regeneration Research*, 11(9), 0. <https://doi.org/10.4103/1673-5374.191194>
- Langevin, H. M., Bouffard, N. A., Badger, G. J., Iatridis, J. C., & Howe, A. K. (2004). Dynamic fibroblast cytoskeletal response to subcutaneous tissue stretch ex vivo and in vivo. *AJP: Cell Physiology*, 288(3), C747–C756. <https://doi.org/10.1152/ajpcell.00420.2004>
- LANGEVIN, H. M., Churchill, D. L., & Cipolla, M. J. (2001). Mechanical signaling through connective tissue: a mechanism for the therapeutic effect of acupuncture. *The FASEB Journal*, 15(12), 2275–2282. <https://doi.org/10.1096/fj.01-0015hyp>
- Langevin, H. M. (2014). Acupuncture, connective tissue, and peripheral sensory modulation. *Critical Reviews in Eukaryotic Gene Expression*, 24(3), 249–253. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/25072149>
- Langevin, H. M., Bouffard, N. A., Badger, G. J., Churchill, D. L., & Howe, A. K. (2006). Subcutaneous tissue fibroblast cytoskeletal remodeling induced by acupuncture: Evidence for a mechanotransduction-based mechanism. *Journal of Cellular Physiology*, 207(3), 767–774. <https://doi.org/10.1002/jcp.20623>

- Langevin, H. M., Bouffard, N. A., Churchill, D. L., & Badger, G. J. (2007). Connective Tissue Fibroblast Response to Acupuncture: Dose-Dependent Effect of Bidirectional Needle Rotation. *The Journal of Alternative and Complementary Medicine*, *13*(3), 355–360. <https://doi.org/10.1089/acm.2007.6351>
- Langevin, H. M., Bouffard, N. A., Fox, J. R., Palmer, B. M., Wu, J., Iatridis, J. C., ... Howe, A. K. (2011). Fibroblast cytoskeletal remodeling contributes to connective tissue tension. *Journal of Cellular Physiology*, *226*(5), 1166–1175. <https://doi.org/10.1002/jcp.22442>
- Langevin, H. M., Churchill, D. L., Fox, J. R., Badger, G. J., Garra, B. S., & Krag, M. H. (2001). Biomechanical response to acupuncture needling in humans. *Journal of Applied Physiology*, *91*(6), 2471–2478. <https://doi.org/10.1152/jappl.2001.91.6.2471>
- LANGEVIN, H. M., CHURCHILL, D. L., WU, J., BADGER, G. J., YANDOW, J. A., FOX, J. R., & KRAG, M. H. (2002). Evidence of connective tissue involvement in acupuncture. *The FASEB Journal*, *16*(8), 872–874. <https://doi.org/10.1096/fj.01-0925fje>
- Langevin, H. M., Fujita, T., Bouffard, N. A., Takano, T., Koptiuch, C., Badger, G. J., & Nedergaard, M. (2013). Fibroblast cytoskeletal remodeling induced by tissue stretch involves ATP signaling. *Journal of Cellular Physiology*, *228*(9), 1922–1926. <https://doi.org/10.1002/jcp.24356>
- Langevin, H. M., Konofagou, E. E., Badger, G. J., Churchill, D. L., Fox, J. R., Ophir, J., & Garra, B. S. (2004). Tissue displacements during acupuncture using ultrasound elastography techniques. *Ultrasound in Medicine & Biology*, *30*(9), 1173–1183. <https://doi.org/10.1016/j.ultrasmedbio.2004.07.010>
- Langevin, H. M., Nedergaard, M., & Howe, A. K. (2013). Cellular control of connective tissue matrix tension. *Journal of Cellular Biochemistry*, *114*(8), 1714–1719. <https://doi.org/10.1002/jcb.24521>
- Langevin, H. M., Schnyer, R., MacPherson, H., Davis, R., Harris, R. E., Napadow, V., ... Executive Board of the Society for Acupuncture Research. (2015). Manual and Electrical Needle Stimulation in Acupuncture Research: Pitfalls and Challenges of Heterogeneity. *The Journal of Alternative and Complementary Medicine*, *21*(3), 113–128. <https://doi.org/10.1089/acm.2014.0186>
- Langevin, H. M., Storch, K. N., Cipolla, M. J., White, S. L., Buttolph, T. R., & Taatjes, D. J. (2006). Fibroblast spreading induced by connective tissue stretch involves intracellular redistribution of α - and β -actin. *Histochemistry and Cell Biology*, *125*(5), 487–495. <https://doi.org/10.1007/s00418-005-0138-1>
- Langevin, H. M., Storch, K. N., Snapp, R. R., Bouffard, N. A., Badger, G. J., Howe, A. K., & Taatjes, D. J. (2010). Tissue stretch induces nuclear remodeling in connective tissue fibroblasts. *Histochemistry and Cell Biology*, *133*(4), 405–415. <https://doi.org/10.1007/s00418-010-0680-3>

- Langevin, H. M., & Yandow, J. A. (2002). Relationship of acupuncture points and meridians to connective tissue planes. *The Anatomical Record*, 269(6), 257–265. <https://doi.org/10.1002/ar.10185>
- Langevin, H. M., Fox, J. R., Koptiuch, C., Badger, G. J., Greenan-Naumann, A. C., Bouffard, N. A., ... Henry, S. M. (2011). Reduced thoracolumbar fascia shear strain in human chronic low back pain. *BMC Musculoskeletal Disorders*, 12, 203. <https://doi.org/10.1186/1471-2474-12-203>
- Latremoliere, A., & Woolf, C. J. (2009). Central Sensitization: A Generator of Pain Hypersensitivity by Central Neural Plasticity. *The Journal of Pain*, 10(9), 895–926. <https://doi.org/10.1016/j.jpain.2009.06.012>
- Lee, J. S., Yoon, K. B., Kim, I. K., & Yoon, D. M. (2011). Pulsed radiofrequency treatment of pain relieving point in a soft tissue. *The Korean Journal of Pain*, 24(1), 57–60. <https://doi.org/10.3344/kjp.2011.24.1.57>
- Lee, J.-A., Jeong, H. J., Park, H.-J., Jeon, S., & Hong, S.-U. (2011). Acupuncture accelerates wound healing in burn-injured mice. *Burns*, 37(1), 117–125. <https://doi.org/10.1016/j.burns.2010.07.005>
- Lee, J.-H., Lee, H., & Jo, D.-J. (2011). An Acute Cervical Epidural Hematoma as a Complication of Dry Needling. *Spine*, 36(13), E891–E893. <https://doi.org/10.1097/BRS.0b013e3181fc1e38>
- Lee, S.-H., Chen, C.-C., Lee, C.-S., Lin, T.-C., & Chan, R.-C. (2008). Effects of Needle Electrical Intramuscular Stimulation on Shoulder and Cervical Myofascial Pain Syndrome and Microcirculation. *Journal of the Chinese Medical Association*, 71(4), 200–206. [https://doi.org/10.1016/S1726-4901\(08\)70104-7](https://doi.org/10.1016/S1726-4901(08)70104-7)
- León-Hernández, J. V., Martín-Pintado-Zugasti, A., Frutos, L. G., Alguacil-Diego, I. M., de la Llave-Rincón, A. I., & Fernandez-Carnero, J. (2016). Immediate and short-term effects of the combination of dry needling and percutaneous TENS on post-needling soreness in patients with chronic myofascial neck pain. *Brazilian Journal of Physical Therapy*, 20(5), 422–431. <https://doi.org/10.1590/bjpt-rbf.2014.0176>
- Levesque, A., Riant, T., Ploteau, S., Rigaud, J., & Labat, J.-J. (2018). Clinical Criteria of Central Sensitization in Chronic Pelvic and Perineal Pain (Convergences PP Criteria): Elaboration of a Clinical Evaluation Tool Based on Formal Expert Consensus. *Pain Medicine*. <https://doi.org/10.1093/pm/pny030>
- Lew, J., Kim, J., & Nair, P. (2020). Comparison of dry needling and trigger point manual therapy in patients with neck and upper back myofascial pain syndrome: a systematic review and meta-analysis. *Journal of Manual and Manipulative Therapy*. <https://doi.org/10.1080/10669817.2020.1822618>

- Lewit, K. (1979). The needle effect in the relief of myofascial pain. *Pain*, 6(1), 83–90. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/424236>
- Lewkonja, P., DiPaola, C., & Street, J. (2016). Incidence and risk of delayed surgical site infection following instrumented lumbar spine fusion. *Journal of Clinical Neuroscience : Official Journal of the Neurosurgical Society of Australasia*, 23, 76–80. <https://doi.org/10.1016/j.jocn.2015.05.039>
- Li, A., Wang, Y., Xin, J., Lao, L., Ren, K., Berman, B. M., & Zhang, R.-X. (2007). Electroacupuncture suppresses hyperalgesia and spinal Fos expression by activating the descending inhibitory system. *Brain Research*, 1186, 171–179. <https://doi.org/10.1016/j.brainres.2007.10.022>
- Li, A., Zhang, R.-X., Wang, Y., Zhang, H., Ren, K., Berman, B. M., ... Lao, L. (2007). Corticosterone mediates electroacupuncture-produced anti-edema in a rat model of inflammation. *BMC Complementary and Alternative Medicine*, 7(1), 27. <https://doi.org/10.1186/1472-6882-7-27>
- Li, C., Chen, B., Hu, T., & Chen, L. (2015). [Effects of acupuncture with different filiform needles on tissues, cells and collagenous fiber of fascia in acupoint area of rats]. *Zhongguo Zhen Jiu = Chinese Acupuncture & Moxibustion*, 35(8), 801–805. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26571897>
- Li, G., Liang, J.-M., Li, P.-W., Yao, X., Pei, P. Z., Li, W., ... Yang, E. S. (2011). Physiology and cell biology of acupuncture observed in calcium signaling activated by acoustic shear wave. *Pflügers Archiv - European Journal of Physiology*, 462(4), 587–597. <https://doi.org/10.1007/s00424-011-0993-7>
- Li, Y., Yang, M., Wu, F., Cheng, K., Chen, H., Shen, X., & Lao, L. (2019). Mechanism of electroacupuncture on inflammatory pain: neural-immune-endocrine interactions. *Journal of Traditional Chinese Medicine = Chung i Tsa Chih Ying Wen Pan*, 39(5), 740–749. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/32186125>
- Lima, K., Costa Junior, J. F. S., Pereira, W. C. de A., & Oliveira, L. F. de. (2017). Assessment of the mechanical properties of the muscle-tendon unit by Supersonic Shearwave Imaging Elastography: a review. *Ultrasonography*. <https://doi.org/10.14366/usg.17017>
- Lin, J.-G., Chou, P.-C., & Chu, H.-Y. (2013). An exploration of the needling depth in acupuncture: the safe needling depth and the needling depth of clinical efficacy. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2013, 740508. <https://doi.org/10.1155/2013/740508>
- Lin, Y.-J., Kung, Y.-Y., Kuo, W.-J., Niddam, D. M., Cheng, C.-M., Chou, C.-C., ... Chiu, J.-H. (2015). Effects of far-infrared radiation on heart rate variability and central manifestations in healthy subjects: a resting-fMRI study. *Lasers in Medical Science*, 30(1), 295–301. <https://doi.org/10.1007/s10103-014-1662-9>

- Lin, Y.-J., Kung, Y.-Y., Kuo, W.-J., Niddam, D. M., Chou, C.-C., Cheng, C.-M., ... Chiu, J.-H. (2016). Effect of acupuncture 'dose' on modulation of the default mode network of the brain. *Acupuncture in Medicine*, 34(6), 425–432. <https://doi.org/10.1136/acupmed-2016-011071>
- Liu, L., Huang, Q.-M., Liu, Q.-G., Ye, G., Bo, C.-Z., Chen, M.-J., & Li, P. (2015). Effectiveness of Dry Needling for Myofascial Trigger Points Associated with Neck and Shoulder Pain: A Systematic Review and Meta-analysis. *Archives of Physical Medicine and Rehabilitation*. <https://doi.org/10.1016/j.apmr.2014.12.015>
- Liu, L., Skinner, M. A., McDonough, S. M., & Baxter, G. D. (2016). Traditional Chinese Medicine acupuncture and myofascial trigger needling: The same stimulation points? *Complementary Therapies in Medicine*, 26, 28–32. <https://doi.org/10.1016/j.ctim.2016.02.013>
- Liu, X., Zhu, B., & Zhang, S. X. (1986). Relationship between electroacupuncture analgesia and descending pain inhibitory mechanism of nucleus raphe magnus. *Pain*, 24(3), 383–396. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/3485785>
- Loaiza, L. A., Yamaguchi, S., Ito, M., & Ohshima, N. (2002). Electro-acupuncture stimulation to muscle afferents in anesthetized rats modulates the blood flow to the knee joint through autonomic reflexes and nitric oxide. *Autonomic Neuroscience: Basic & Clinical*, 97(2), 103–109. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/12132642>
- Loizidis, T., Nikodelis, T., Bakas, E., & Kollias, I. (2020). The effects of dry needling on pain relief and functional balance in patients with sub-chronic low back pain. *Journal of Back and Musculoskeletal Rehabilitation*, 1–7. <https://doi.org/10.3233/BMR-181265>
- López-Royo, M. P., Ortiz-Lucas, M., Gómez-Trullén, E. M., & Herrero, P. (2020). The Effectiveness of Minimally Invasive Techniques in the Treatment of Patellar Tendinopathy: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Evidence-Based Complementary and Alternative Medicine*, 2020, 1–16. <https://doi.org/10.1155/2020/8706283>
- Louwerens, J. K. G., Sierevelt, I. N., Kramer, E. T., Boonstra, R., van den Bekerom, M. P. J., van Royen, B. J., ... van Noort, A. (2020). Comparing Ultrasound-Guided Needling Combined With a Subacromial Corticosteroid Injection Versus High-Energy Extracorporeal Shockwave Therapy for Calcific Tendinitis of the Rotator Cuff: A Randomized Controlled Trial. In *Arthroscopy - Journal of Arthroscopic and Related Surgery* (Vol. 36, pp. 1823-1833.e1). W.B. Saunders. <https://doi.org/10.1016/j.arthro.2020.02.027>
- Lu, Z., Briley, A., Zhou, P., & Li, S. (2020). Are There Trigger Points in the Spastic Muscles? Electromyographical Evidence of Dry Needling Effects on Spastic Finger Flexors in Chronic Stroke. *Frontiers in Neurology*, 11, 78. <https://doi.org/10.3389/fneur.2020.00078>

- Luan, S., Zhu, Z., Ruan, J., Lin, C., Ke, S., Xin, W., ... Ma, C. (2019). Randomized Trial on Comparison of the Efficacy of Extracorporeal Shock Wave Therapy and Dry Needling in Myofascial Trigger Points. *American Journal of Physical Medicine & Rehabilitation*, 98(8), 677–684. <https://doi.org/10.1097/PHM.0000000000001173>
- Lucas, K. R. (2008). The impact of latent trigger points on regional muscle function. *Current Pain and Headache Reports*, 12(5), 344–349. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/18765139>
- Lucas, K. R., Rich, P. A., & Polus, B. I. (2010). Muscle activation patterns in the scapular positioning muscles during loaded scapular plane elevation: The effects of Latent Myofascial Trigger Points. *Clinical Biomechanics*, 25(8), 765–770. <https://doi.org/10.1016/j.clinbiomech.2010.05.006>
- Lundeberg, T., & Lund, I. (2008). Is there a role for acupuncture in endometriosis pain, or “endometrialgia”? *Acupuncture in Medicine : Journal of the British Medical Acupuncture Society*, 26(2), 94–110. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/18591909>
- Ma, Y. (2016). *Dr. Ma's Neurologic Dry Needling*. Laterna Medica Press. Retrieved from <https://integrativedryneedling.com/resources/books/dr-mas-neurologic-dry-needling/>
- Ma, Y. (2011). *Acupuncture for sports and trauma rehabilitation : dry needling techniques*. Churchill Livingstone/Elsevier.
- Ma, Z., Diao, J.-W., & Ma, Z.-Y. (2014). [Clinical observation on cervical type cervical spondylosis treated with sword-like needle and chiropractic spinal manipulation]. *Zhongguo Zhen Jiu = Chinese Acupuncture & Moxibustion*, 34(2), 173–175. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/24796059>
- MacPherson, H., Hammerschlag, R., Coeytaux, R. R., Davis, R. T., Harris, R. E., Kong, J.-T., ... Wayne, P. M. (2016). Unanticipated Insights into Biomedicine from the Study of Acupuncture. *Journal of Alternative and Complementary Medicine (New York, N.Y.)*, 22(2), 101–107. <https://doi.org/10.1089/acm.2015.0184>
- Maeda, Y., Kim, H., Kettner, N., Kim, J., Cina, S., Malatesta, C., ... Napadow, V. (2017). Rewiring the primary somatosensory cortex in carpal tunnel syndrome with acupuncture. *Brain*, 140(4). <https://doi.org/10.1093/brain/awx015>
- Mahmoudzadeh, A., Rezaeian, Z., Karimi, A., & Dommerholt, J. (2016). The effect of dry needling on the radiating pain in subjects with discogenic low-back pain: A randomized control trial. *Journal of Research in Medical Sciences*, 21(1), 86. <https://doi.org/10.4103/1735-1995.192502>
- Mansfield, C., Harr, M., Briggs, M., Onate, J., & Boucher, L. (2019). Safety of dry needling to the upper lumbar spine: a pilot cadaver study. *Journal of Manual & Manipulative Therapy*, 1–8. <https://doi.org/10.1080/10669817.2019.1708593>

- Maroon, J. C., Bost, J. W., & Maroon, A. (2010). Natural anti-inflammatory agents for pain relief. *Surgical Neurology International*, *1*, 80. <https://doi.org/10.4103/2152-7806.73804>
- Martin, B. R. (2017). Multimodal Care in the Management of a Patient With Chronic Tendinopathy of the Biceps Femoris: A Case Report. *Journal of Chiropractic Medicine*, *16*(2), 156–162. <https://doi.org/10.1016/j.jcm.2017.01.006>
- Martín-Corrales, C., Bautista, I. V., Méndez-Mera, J. E., Fernández-Matías, R., Achalandabaso-Ochoa, A., Gallego-Izquierdo, T., ... Pecos-Martín, D. (2020). Benefits of Adding Gluteal Dry Needling to a Four-Week Physical Exercise Program in a Chronic Low Back Pain Population. A Randomized Clinical Trial. *Pain Medicine*, *21*(11), 2948–2957. <https://doi.org/10.1093/pm/pnaa279>
- Martínez-Jiménez, E. M., Losa-Iglesias, M. E., Antolín-Gil, M. S., López-López, D., Romero-Morales, C., Benito-de-Pedro, M., ... Becerro-de-Bengoa-Vallejo, R. (2021). Flexor Digitorum Brevis Muscle Dry Needling Changes Surface and Plantar Pressures: A Pre-Post Study. *Life*, *11*(1), 48. <https://doi.org/10.3390/life11010048>
- Martin-Granados, C., & McCaig, C. D. (2014). Harnessing the Electric Spark of Life to Cure Skin Wounds. *Advances in Wound Care*, *3*(2), 127–138. <https://doi.org/10.1089/wound.2013.0451>
- Martín-Pintado-Zugasti, A., Fernández-Carnero, J., León-Hernández, J. V., Calvo-Lobo, C., Beltran-Alacreu, H., Alguacil-Diego, I., ... Pecos-Martin, D. (2018). Postneedling Soreness and Tenderness After Different Dosages of Dry Needling of an Active Myofascial Trigger Point in Patients With Neck Pain: A Randomized Controlled Trial. *PM and R*. <https://doi.org/10.1016/j.pmrj.2018.05.015>
- Martín-Pintado-Zugasti, A., Pecos-Martin, D., Rodríguez-Fernández, Á. L., Alguacil-Diego, I. M., Portillo-Aceituno, A., Gallego-Izquierdo, T., & Fernandez-Carnero, J. (2015). Ischemic Compression after Dry Needling of a Latent Myofascial Trigger Point Reduces Post-Needling Soreness Intensity and Duration. *PM & R : The Journal of Injury, Function, and Rehabilitation*. <https://doi.org/10.1016/j.pmrj.2015.03.021>
- Martín-Pintado-Zugasti, A., Rodríguez-Fernández, Á. L., & Fernandez-Carnero, J. (2016). Postneedling soreness after deep dry needling of a latent myofascial trigger point in the upper trapezius muscle: Characteristics, sex differences and associated factors. *Journal of Back and Musculoskeletal Rehabilitation*, *29*(2). <https://doi.org/10.3233/BMR-150630>
- Martín-Rodríguez, A., Sáez-Olmo, E., Pecos-Martín, D., & Calvo-Lobo, C. (2019). Effects of dry needling in the sternocleidomastoid muscle on cervical motor control in patients with neck pain: a randomised clinical trial. *Acupuncture in Medicine*, 096452841984391. <https://doi.org/10.1177/0964528419843913>

- McDowell, J. M., Kohut, S. H., & Betts, D. (2018). Safe acupuncture and dry needling during pregnancy: New Zealand physiotherapists' opinion and practice. *Journal of Integrative Medicine*. <https://doi.org/10.1016/j.joim.2018.11.006>
- McManus, R., & Cleary, M. (2018). Radial nerve injury following dry needling. *BMJ Case Reports*, 2018, bcr-2017-221302. <https://doi.org/10.1136/bcr-2017-221302>
- Medeiros, L. F., Caumo, W., Dussán-Sarria, J., Deitos, A., Brietzke, A., Laste, G., ... Torres, I. L. S. (2015). Effect of Deep Intramuscular Stimulation and Transcranial Magnetic Stimulation on Neurophysiological Biomarkers in Chronic Myofascial Pain Syndrome. *Pain Medicine*, 17(1), n/a-n/a. <https://doi.org/10.1111/pme.12919>
- Meerwijk, E. L., Larson, M. J., Schmidt, E. M., Adams, R. S., Bauer, M. R., Ritter, G. A., ... Harris, A. H. S. (2019). Nonpharmacological Treatment of Army Service Members with Chronic Pain Is Associated with Fewer Adverse Outcomes After Transition to the Veterans Health Administration. *Journal of General Internal Medicine*. <https://doi.org/10.1007/s11606-019-05450-4>
- Mejuto-Vázquez, M. J., Salom-Moreno, J., Ortega-Santiago, R., Truyols-Domínguez, S., & Fernández-de-las-Peñas, C. (2014). Short-Term Changes in Neck Pain, Widespread Pressure Pain Sensitivity, and Cervical Range of Motion After the Application of Trigger Point Dry Needling in Patients With Acute Mechanical Neck Pain: A Randomized Clinical Trial. *Journal of Orthopaedic & Sports Physical Therapy*, 44(4), 252–260. <https://doi.org/10.2519/jospt.2014.5108>
- Melchart, D., Weidenhammer, W., Streng, A., Reitmayr, S., Hoppe, A., Ernst, E., & Linde, K. (2004). Prospective Investigation of Adverse Effects of Acupuncture in 97 733 Patients. *Archives of Internal Medicine*, 164(1), 104. <https://doi.org/10.1001/archinte.164.1.104>
- Melzack, R., Stillwell, D. M., & Fox, E. J. (1977). Trigger points and acupuncture points for pain: correlations and implications. *Pain*, 3(1), 3–23. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/69288>
- Mesa-Jiménez, J. A., Fernández-de-las-Peñas, C., Kopenhagen, S. L., Sánchez-Gutiérrez, J., & Arias-Burúa, J. L. (2020). Cadaveric and in vivo validation of needle placement in the medial pterygoid muscle. *Musculoskeletal Science and Practice*, 49. <https://doi.org/10.1016/j.msksp.2020.102197>
- Mesa-Jiménez, J. A., Sánchez-Gutiérrez, J., de-la-Hoz-Aizpurua, J. L., & Fernández-de-las-Peñas, C. (2015). Cadaveric validation of dry needle placement in the lateral pterygoid muscle. *Journal of Manipulative and Physiological Therapeutics*, 38(2), 145–150. <https://doi.org/10.1016/j.jmpt.2014.11.004>
- Miller, M. J., Ahmed, S., Bobrowski, P., & Haqqi, T. M. (2006). The chondroprotective actions of a natural product are associated with the activation of IGF-1 production by human

chondrocytes despite the presence of IL-1 β . *BMC Complementary and Alternative Medicine*, 6(1), 13. <https://doi.org/10.1186/1472-6882-6-13>

Minerbi, A., Ratmansky, M., Finestone, A., Gerwin, R., & Vulfsons, S. (2017). The local and referred pain patterns of the longus colli muscle. *Journal of Bodywork and Movement Therapies*, 21(2), 267–273. <https://doi.org/10.1016/j.jbmt.2016.06.020>

Mokhtari, T., Ren, Q., Li, N., Wang, F., Bi, Y., & Hu, L. (2020). Transcutaneous Electrical Nerve Stimulation in Relieving Neuropathic Pain: Basic Mechanisms and Clinical Applications. *Current Pain and Headache Reports*, 24(4), 14. <https://doi.org/10.1007/s11916-020-0846-1>

Moldwin, R. M., & Fariello, J. Y. (2013). Myofascial trigger points of the pelvic floor: Associations with urological pain syndromes and treatment strategies including injection therapy. *Current Urology Reports*, 14(5), 409–417. <https://doi.org/10.1007/s11934-013-0360-7>

Moldwin, R. M., & Fariello, J. Y. (2013). Myofascial trigger points of the pelvic floor: associations with urological pain syndromes and treatment strategies including injection therapy. *Current Urology Reports*, 14(5), 409–417. <https://doi.org/10.1007/s11934-013-0360-7>

Money, S. (2017). Pathophysiology of Trigger Points in Myofascial Pain Syndrome. *Journal of Pain & Palliative Care Pharmacotherapy*, 31(2). <https://doi.org/10.1080/15360288.2017.1298688>

Moody, P. W., Fehring, T. K., & Springer, B. D. (2020). Periarticular needle-based therapies can cause periprosthetic knee infections. *Arthroplasty Today*, 6(2). <https://doi.org/10.1016/j.artd.2020.02.006>

Morgan, B. C., Deyle, G. D., Petersen, E. J., Allen, C. S., & Koppenhaver, S. L. (2019). DRY NEEDLING IN THE MANAGEMENT OF PATIENTS MEETING CLINICAL DIAGNOSTIC CRITERIA FOR SUBACROMIAL PAIN SYNDROME: A CASE SERIES. *International Journal of Sports Physical Therapy*, 14(4), 637–654. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/31440414>

Morikawa, Y., Takamoto, K., Nishimaru, H., Taguchi, T., Urakawa, S., Sakai, S., ... Nishijo, H. (2017). Compression at myofascial trigger point on chronic neck pain provides pain relief through the prefrontal cortex and autonomic nervous system: A pilot study. *Frontiers in Neuroscience*, 11(APR). <https://doi.org/10.3389/fnins.2017.00186>

MR, V. F. (2012). Far infrared radiation (FIR): its biological effects and medical applications. *Photonics Lasers Med.*

Muhammad Asbar Javed, Sumayya Saleem, & Muhammad Kumail Hassan Raza. (2020). Management of muscle trigger points causing subacromial pain using dry needling

technique — a case report. *Journal of the Pakistan Medical Association*, 1–7.
<https://doi.org/10.47391/jpma.125>

Mullins, J. F., Hoch, M. C., Kosik, K. B., Heebner, N. R., Gribble, P. A., Westgate, P. M., & Nitz, A. J. (2020). Effect of Dry Needling on Spinal Reflex Excitability and Postural Control in Individuals With Chronic Ankle Instability. *Journal of Manipulative and Physiological Therapeutics*. <https://doi.org/10.1016/j.jmpt.2020.08.001>

Mullins, J. F., Hoch, M. C., & Nitz, A. J. (2019). Novel application of dry needling for neuropathic myofascial ankle pain and dysfunction following insidious integumentary infection: A case report. *Journal of Bodywork and Movement Therapies*, 24(2), 138–143.
<https://doi.org/10.1016/j.jbmt.2019.10.017>

Mullins, J. F., Nitz, A. J., & Hoch, M. C. (2019). Dry needling equilibration theory: A mechanistic explanation for enhancing sensorimotor function in individuals with chronic ankle instability. *Physiotherapy Theory and Practice*, 1–10.
<https://doi.org/10.1080/09593985.2019.1641870>

Narouze, S. (2014). Neurostimulation at Pterygopalatine Fossa for Cluster Headaches and Cerebrovascular Disorders. *Current Pain and Headache Reports*, 18(7), 432.
<https://doi.org/10.1007/s11916-014-0432-5>

Nasr, A. J., & Zafereo, J. (2019). The effects of dry needling and neurodynamic exercise on idiopathic peripheral neuropathy: A case report. *Journal of Bodywork and Movement Therapies*, 23(2), 306–310. <https://doi.org/10.1016/j.jbmt.2018.02.006>

Neal, B. S., & Longbottom, J. (2012). Is there a role for acupuncture in the treatment of tendinopathy? *Acupuncture in Medicine*, 30(4), 346–349. <https://doi.org/10.1136/acupmed-2012-010208>

Núñez-Cortés, R., Cruz-Montecinos, C., Latorre-García, R., Pérez-Alenda, S., & Torres-Castro, R. (2020). Effectiveness of Dry Needling in the Management of Spasticity in Patients Post Stroke. *Journal of Stroke and Cerebrovascular Diseases*, 29(11).
<https://doi.org/10.1016/j.jstrokecerebrovasdis.2020.105236>

Núñez-Cortés, R., Cruz-Montecinos, C., Rosel, Á. V., Molina, O. P., & Cuesta-Vargas, A. (2017). Short-Term Clinical Effects of Dry Needling Combined With Physical Therapy in Patients With Chronic Postsurgical Pain Following Total Knee Arthroplasty: Case Series. *Journal of Orthopaedic & Sports Physical Therapy*, 1–24.
<https://doi.org/10.2519/jospt.2017.7089>

Nystrom, N. A., & Freeman, M. D. (2018). Central Sensitization Is Modulated Following Trigger Point Anesthetization in Patients with Chronic Pain from Whiplash Trauma. A Double-Blind, Placebo-Controlled, Crossover Study. *Pain Medicine*, 19(1), 124–129.
<https://doi.org/10.1093/pm/pnx014>

- Oakley, C. K., Janssen, S. A. K., Pankratz, J. P., McCumber, T. L., Treffer, K. D., & Olinger, A. B. (2018). Validity of the Rule of Threes and Anatomical Relationships in the Thoracic Spine. *The Journal of the American Osteopathic Association*, *118*(10), 645. <https://doi.org/10.7556/jaoa.2018.143>
- Oke, S. L., & Tracey, K. J. (2009). The inflammatory reflex and the role of complementary and alternative medical therapies. *Annals of the New York Academy of Sciences*, *1172*, 172–180. <https://doi.org/10.1196/annals.1393.013>
- Oliveira, R., Piranio, A., Coughlan, C., MacDonald, T. J., Carusotto, A. F., & Hakim, R. M. (2020, February 15). Effects of Dry Needling on Muscle Spasticity in Adults with Neurological Disorders: A Systematic Review. APTA.
- O'Neill, S., Manniche, C., Graven-Nielsen, T., & Arendt-Nielsen, L. (2007). Generalized deep-tissue hyperalgesia in patients with chronic low-back pain. *European Journal of Pain (London, England)*, *11*(4), 415–420. <https://doi.org/10.1016/j.ejpain.2006.05.009>
- Ortega-Cebrian, S., Luchini, N., & Whiteley, R. (2016). Dry needling: Effects on activation and passive mechanical properties of the quadriceps, pain and range during late stage rehabilitation of ACL reconstructed patients. *Physical Therapy in Sport*, *21*. <https://doi.org/10.1016/j.ptsp.2016.02.001>
- Ortín, J. A., Bravo-Esteban, E., Ibáñez, J., Herrero, P., Gómez-Soriano, J., & Marcén-Román, Y. (2020). Effects of Deep Dry Needling on Tremor Severity and Functionality in Stroke: A Case Report. *Healthcare*, *9*(1), 5. <https://doi.org/10.3390/healthcare9010005>
- Osborne, N. J., & Gatt, I. T. (2010). Management of shoulder injuries using dry needling in elite volleyball players. *Acupuncture in Medicine*, *28*(1), 42–45. <https://doi.org/10.1136/aim.2009.001560>
- Ozden, A. V., Alptekin, H. K., Esmailzadeh, S., Cihan, C., Aki, S., Aksoy, C., & Oncu, J. (2016). Evaluation of the Sympathetic Skin Response to the Dry Needling Treatment in Female Myofascial Pain Syndrome Patients. *Journal of Clinical Medicine Research*, *8*(7), 513–518. <https://doi.org/10.14740/jocmr2589w>
- Özden, M. C., Atalay, B., Özden, A. V., Çankaya, A. B., Kolay, E., & Yıldırım, S. (2018). Efficacy of dry needling in patients with myofascial temporomandibular disorders related to the masseter muscle. *Cranio - Journal of Craniomandibular Practice*, *38*(5). <https://doi.org/10.1080/08869634.2018.1526848>
- Panzeri, M., Ryvlin, P., Staeger, P., Gautschi, R., & Amstutz, V. (2020). [Myofascial approach in tension-type headache management: a scientific assessment]. *Revue Medicale Suisse*, *16*(687), 600–605. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/32216185>
- Park, J., Ahn, R., Son, D., Kang, B., & Yang, D. (2013). Acute spinal subdural hematoma with hemiplegia after acupuncture: a case report and review of the literature. *The Spine Journal* :

Official Journal of the North American Spine Society, 13(10), e59-63.
<https://doi.org/10.1016/j.spinee.2013.06.024>

- Pavkovich, R. (2015). EFFECTIVENESS OF DRY NEEDLING, STRETCHING, AND STRENGTHENING TO REDUCE PAIN AND IMPROVE FUNCTION IN SUBJECTS WITH CHRONIC LATERAL HIP AND THIGH PAIN: A RETROSPECTIVE CASE SERIES. *International Journal of Sports Physical Therapy*, 10(4), 540–551. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26347305>
- Pecos-Martin, D., Montañez-Aguilera, F. J., Gallego-Izquierdo, T., Urraca-Gesto, A., Gómez-Conesa, A., Romero-Franco, N., & Plaza-Manzano, G. (2015). The Effectiveness of Dry Needling On The Lower Trapezius In Patients With Mechanical Neck Pain: A Randomized Clinical Trial. *Archives of Physical Medicine and Rehabilitation*.
<https://doi.org/10.1016/j.apmr.2014.12.016>
- Peng, W. W., Tang, Z. Y., Zhang, F. R., Li, H., Kong, Y. Z., Iannetti, G. D., & Hu, L. (2019). Neurobiological mechanisms of TENS-induced analgesia. *NeuroImage*, 195, 396–408.
<https://doi.org/10.1016/j.neuroimage.2019.03.077>
- Perreault, T., Dunning, J., & Butts, R. (2017). The local twitch response during trigger point dry needling: Is it necessary for successful outcomes? *Journal of Bodywork and Movement Therapies*, 21(4), 940–947. <https://doi.org/10.1016/j.jbmt.2017.03.008>
- Pessoa, D. R., Costa, D. R., Prianti, B. de M., Costa, D. R., Delpasso, C. A., Arisawa, E. Â. L. S., & Nicolau, R. A. (2018). Association of facial massage, dry needling, and laser therapy in Temporomandibular Disorder: case report. *CoDAS*, 30(6), e20170265.
<https://doi.org/10.1590/2317-1782/20182017265>
- Petrofsky, J., Laymon, M., & Lee, H. (2020). Local heating of trigger points reduces neck and plantar fascia pain. *Journal of Back and Musculoskeletal Rehabilitation*, 33(1), 21–28.
<https://doi.org/10.3233/BMR-181222>
- Pomeranz, B., & Chiu, D. (1976). Naloxone blockade of acupuncture analgesia: endorphin implicated. *Life Sciences*, 19(11), 1757–1762. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/187888>
- Pourahmadi, M., Dommerholt, J., Fernández-de-Las-Peñas, C., Koes, B. W., Mohseni-Bandpei, M. A., Mansournia, M. A., ... Bahramian, M. (2021). Dry Needling for the Treatment Of Tension-Type, Cervicogenic, or Migraine Headaches: a Systematic Review and Meta-Analysis. *Physical Therapy*. <https://doi.org/10.1093/ptj/pzab068>
- Procópio, R., Matheus, P., Gaubeur, A., Maria, A., Samir, I., Saleh, O., ... Akamatsu, E. (2020). Anatomical Study of the Innervation of the Masseter Muscle and Its Correlation with Myofascial Trigger Points. <https://doi.org/10.2147/JPR.S265717>

- Puentedura, E. J., Buckingham, S. J., Morton, D., Montoya, C., & Fernandez de las Penas, C. (2017). Immediate Changes in Resting and Contracted Thickness of Transversus Abdominis After Dry Needling of Lumbar Multifidus in Healthy Participants: A Randomized Controlled Crossover Trial. *Journal of Manipulative and Physiological Therapeutics*, 40(8), 615–623. <https://doi.org/10.1016/j.jmpt.2017.06.013>
- Qi, L., Tang, Y., You, Y., Qin, F., Zhai, L., Peng, H., & Nie, R. (2016). Comparing the Effectiveness of Electroacupuncture with Different Grades of Knee Osteoarthritis: A Prospective Study. *Cellular Physiology and Biochemistry : International Journal of Experimental Cellular Physiology, Biochemistry, and Pharmacology*, 39(6), 2331–2340. <https://doi.org/10.1159/000447925>
- Quintner, J. L., Bove, G. M., & Cohen, M. L. (2015). A critical evaluation of the trigger point phenomenon. *Rheumatology (Oxford, England)*, 54(3), 392–399. <https://doi.org/10.1093/rheumatology/keu471>
- Raeissadat, S. A., Rayegani, S. M., Sadeghi, F., & Rahimi Dehgolan, S. (2018). Comparison of ozone and lidocaine injection efficacy vs dry needling in myofascial pain syndrome patients. *Journal of Pain Research, Volume 11*, 1273–1279. <https://doi.org/10.2147/JPR.S164629>
- Rainey, C. E. (2013). The use of trigger point dry needling and intramuscular electrical stimulation for a subject with chronic low back pain: a case report. *International Journal of Sports Physical Therapy*, 8(2), 145–161. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/23593553>
- Rajkannan, P., & Vijayaraghavan, R. (2019). Dry needling in chronic abdominal wall pain of uncertain origin. *Journal of Bodywork and Movement Therapies*, 23(1), 94–98. <https://doi.org/10.1016/j.jbmt.2018.01.004>
- Rastegar, S., Baradaran Mahdavi, S., Hoseinzadeh, B., & Badiei, S. (2017). Comparison of dry needling and steroid injection in the treatment of plantar fasciitis: a single-blind randomized clinical trial. *International Orthopaedics*. <https://doi.org/10.1007/s00264-017-3681-1>
- Ratmansky, M., Minerbi, A., Kalichman, L., Kent, J., Wende, O., Finestone, A. S., & Vulfsoms, S. (2016). Position Statement of the Israeli Society for Musculoskeletal Medicine on Intramuscular Stimulation for Myofascial Pain Syndrome-A Delphi Process. *Pain Practice : The Official Journal of World Institute of Pain*. <https://doi.org/10.1111/papr.12491>
- Reid, B., & Zhao, M. (2014). The Electrical Response to Injury: Molecular Mechanisms and Wound Healing. *Advances in Wound Care*, 3(2), 184–201. <https://doi.org/10.1089/wound.2013.0442>
- Rha, D., Shin, J. C., Kim, Y.-K., Jung, J. H., Kim, Y. U., & Lee, S. C. (2011). Detecting Local Twitch Responses of Myofascial Trigger Points in the Lower-Back Muscles Using

Ultrasonography. *Archives of Physical Medicine and Rehabilitation*, 92(10), 1576-1580.e1.
<https://doi.org/10.1016/j.apmr.2011.05.005>

Riffel, A. P. K., Santos, M. C. Q., de Souza, J. A., Scheid, T., Horst, A., Kolberg, C., ... Partata, W. A. (2018). Treatment with ascorbic acid and α -tocopherol modulates oxidative-stress markers in the spinal cord of rats with neuropathic pain. *Brazilian Journal of Medical and Biological Research = Revista Brasileira de Pesquisas Medicas e Biologicas*, 51(4), e7097.
<https://doi.org/10.1590/1414-431X20177097>

Riggin, C. N., Chen, M., Gordon, J. A., Schultz, S. M., Soslowsky, L. J., & Khoury, V. (2019). Ultrasound-Guided Dry Needling of the Healthy Rat Supraspinatus Tendon Elicits Early Healing Without Causing Permanent Damage. *Journal of Orthopaedic Research*, 37(9), jor.24329. <https://doi.org/10.1002/jor.24329>

Rock, J. M., & Rainey, C. E. (2014). Treatment of nonspecific thoracic spine pain with trigger point dry needling and intramuscular electrical stimulation: a case series. *International Journal of Sports Physical Therapy*, 9(5), 699–711. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/25328832>

Rodríguez-Huguet, M., Góngora-Rodríguez, J., Rodríguez-Huguet, P., Ibañez-Vera, A. J., Rodríguez-Almagro, D., Martín-Valero, R., ... Lomas-Vega, R. (2020). Effectiveness of Percutaneous Electrolysis in Supraspinatus Tendinopathy : A Single-Blinded Randomized Controlled Trial. *Journal of Clinical Medicine*, 9(6), 1–13.
<https://doi.org/10.3390/jcm9061837>

Roldan, C. J., & Hu, N. (2015). Myofascial pain syndromes in the emergency department: What are we missing? *Journal of Emergency Medicine*, 49(6).
<https://doi.org/10.1016/j.jemermed.2015.04.027>

Ronconi, G., Nigito, C., De Giorgio, F., & Ferrara, P. E. (n.d.). Current statement about Dry Needling practice in Italy after the opinion of the Italian Superior Health Council: practical implications for the safeguard of the patients in a case of malpractice. *Igiene e Sanita Pubblica*, 75(1), 77–79. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/31185492>

Rozenfeld, E., Finestone, A. S., Moran, U., Damri, E., & Kalichman, L. (2017). Test-retest reliability of myofascial trigger point detection in hip and thigh areas. *Journal of Bodywork and Movement Therapies*, 21(4). <https://doi.org/10.1016/j.jbmt.2017.03.023>

Rozenfeld, E., Sapoznikov Sebakhtu, E., Krieger, Y., & Kalichman, L. (2020). Dry needling for scar treatment. *Acupuncture in Medicine*, 096452842091225.
<https://doi.org/10.1177/0964528420912255>

Sajadi, S., Forogh, B., & ZoghAli, M. (2019). Cervical trigger point acupuncture for treatment of somatic tinnitus. *Journal of Acupuncture and Meridian Studies*.
<https://doi.org/10.1016/j.jams.2019.07.004>

- Salazar, T. E., Richardson, M. R., Beli, E., Ripsch, M. S., George, J., Kim, Y., ... Grant, M. B. (2017). Electroacupuncture Promotes CNS-Dependent Release of Mesenchymal Stem Cells. *STEM CELLS*. <https://doi.org/10.1002/stem.2613>
- Salom-Moreno, J., Ayuso-Casado, B., Tamaral-Costa, B., Sánchez-Milá, Z., Fernández-de-Las-Peñas, C., & Alburquerque-Sendín, F. (2015). Trigger Point Dry Needling and Proprioceptive Exercises for the Management of Chronic Ankle Instability: A Randomized Clinical Trial. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2015, 790209. <https://doi.org/10.1155/2015/790209>
- Salom-Moreno, J., Jiménez-Gómez, L., Gómez-Ahufinger, V., Palacios-Ceña, M., Arias-Buría, J. L., Koppenhaver, S. L., & Fernández-de-las-Peñas, C. (2017). Effects of Low-Load Exercise on Postneedling-Induced Pain After Dry Needling of Active Trigger Point in Individuals With Subacromial Pain Syndrome. *PM&R*, 9(12), 1208–1216. <https://doi.org/10.1016/j.pmrj.2017.04.012>
- Sánchez-Infante, J., Navarro-Santana, M. J., Bravo-Sánchez, A., Jiménez-Díaz, F., & Abián-Vicén, J. (2021). Is Dry Needling Applied by Physical Therapists Effective for Pain in Musculoskeletal Conditions? A Systematic Review and Meta-Analysis. *Physical Therapy*. <https://doi.org/10.1093/ptj/pzab070>
- Sánchez-Mila, Z., Salom-Moreno, J., & Fernández-de-las-Peñas, C. (2018). Effects of Dry Needling on Post-Stroke Spasticity, Motor Function and Stability Limits: A Randomised Clinical Trial. *Acupuncture in Medicine*, 36(6), 358–366. <https://doi.org/10.1136/acupmed-2017-011568>
- Sari, H., Akarirmak, U., & Uludag, M. (2012). Active myofascial trigger points might be more frequent in patients with cervical radiculopathy. *European Journal of Physical and Rehabilitation Medicine*, 48(2), 237–244. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/22614890>
- Saylor-Pavkovich, E. (2016). STRENGTH EXERCISES COMBINED WITH DRY NEEDLING WITH ELECTRICAL STIMULATION IMPROVE PAIN AND FUNCTION IN PATIENTS WITH CHRONIC ROTATOR CUFF TENDINOPATHY: A RETROSPECTIVE CASE SERIES. *International Journal of Sports Physical Therapy*, 11(3), 409–422. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/27274427>
- SBERNARDORI, M. C., & BANDIERA, P. (2007). Histopathology of the A1 Pulley in Adult Trigger Fingers. *Journal of Hand Surgery (European Volume)*, 32(5), 556–559. <https://doi.org/10.1016/J.JHSE.2007.06.002>
- Schiller, P. W., Nguyen, T. M.-D., Saray, A., Poon, A. W. H., Laferrière, A., & Coderre, T. J. (2015). The bifunctional μ opioid agonist/antioxidant [Dmt(1)]DALDA is a superior analgesic in an animal model of complex regional pain syndrome-type i. *ACS Chemical Neuroscience*, 6(11), 1789–1793. <https://doi.org/10.1021/acschemneuro.5b00228>

- Schleip, R., Gabbiani, G., Wilke, J., Naylor, I., Hinz, B., Zorn, A., ... Klingler, W. (2019). Fascia Is Able to Actively Contract and May Thereby Influence Musculoskeletal Dynamics: A Histochemical and Mechanographic Investigation. *Frontiers in Physiology*, *10*, 336. <https://doi.org/10.3389/fphys.2019.00336>
- Sedighi, A., Nakhostin Ansari, N., & Naghdi, S. (2017). Comparison of acute effects of superficial and deep dry needling into trigger points of suboccipital and upper trapezius muscles in patients with cervicogenic headache. *Journal of Bodywork and Movement Therapies*, *21*(4), 810–814. <https://doi.org/10.1016/j.jbmt.2017.01.002>
- Sekido, R., Ishimaru, K., & Sakita, M. (2004). Corticotropin-Releasing Factor and Interleukin-1 β are Involved in the Electroacupuncture-Induced Analgesic Effect on Inflammatory Pain Elicited by Carrageenan. *The American Journal of Chinese Medicine*, *32*(02), 269–279. <https://doi.org/10.1142/S0192415X04001928>
- Sekido, R., Ishimaru, K., & Sakita, M. (2003). Differences of Electroacupuncture-induced Analgesic Effect in Normal and Inflammatory Conditions in Rats. *The American Journal of Chinese Medicine*, *31*(06), 955–965. <https://doi.org/10.1142/S0192415X03001491>
- Seng, C., Mohan, P. C., Koh, S. B. J., Howe, T. Sen, Lim, Y. G., Lee, B. P., & Morrey, B. F. (2016). Ultrasonic Percutaneous Tenotomy for Recalcitrant Lateral Elbow Tendinopathy. *The American Journal of Sports Medicine*, *44*(2), 504–510. <https://doi.org/10.1177/0363546515612758>
- Seo, B. K., Park, D. S., & Baek, Y. H. (2013). The analgesic effect of electroacupuncture on inflammatory pain in the rat model of collagenase-induced arthritis: mediation by opioidergic receptors. *Rheumatology International*, *33*(5), 1177–1183. <https://doi.org/10.1007/s00296-012-2502-5>
- Seo, B.-K., Sung, W.-S., Park, Y.-C., & Baek, Y.-H. (2016). The electroacupuncture-induced analgesic effect mediated by 5-HT₁, 5-HT₃ receptor and muscarinic cholinergic receptors in rat model of collagenase-induced osteoarthritis. *BMC Complementary and Alternative Medicine*, *16*, 212. <https://doi.org/10.1186/s12906-016-1204-z>
- Settergren, R. (2013). Treatment of supraspinatus tendinopathy with ultrasound guided dry needling. <https://doi.org/10.1016/j.jcm.2012.11.002>
- Shah, J. P., & Gilliams, E. A. (2008). Uncovering the biochemical milieu of myofascial trigger points using in vivo microdialysis: An application of muscle pain concepts to myofascial pain syndrome. *Journal of Bodywork and Movement Therapies*, *12*(4), 371–384. <https://doi.org/10.1016/j.jbmt.2008.06.006>
- Shah, J. P., Danoff, J. V, Desai, M. J., Parikh, S., Nakamura, L. Y., Phillips, T. M., & Gerber, L. H. (2008). Biochemicals associated with pain and inflammation are elevated in sites near to and remote from active myofascial trigger points. *Archives of Physical Medicine and Rehabilitation*, *89*(1), 16–23. <https://doi.org/10.1016/j.apmr.2007.10.018>

- Shanmugam, S., & Mathias, L. (2017). Immediate Effects of Paraspinal Dry Needling in Patients with Acute Facet Joint Lock Induced Wry Neck. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*, 11(6), YM01–YM03. <https://doi.org/10.7860/JCDR/2017/26407.10079>
- Shanmugam, S., Mathias, L., Thakur, A., & Kumar, D. (2016). Effects of Intramuscular Electrical Stimulation Using Inversely Placed Electrodes on Myofascial Pain Syndrome in the Shoulder: A Case Series. *The Korean Journal of Pain*, 29(2), 136–140. <https://doi.org/10.3344/kjp.2016.29.2.136>
- Shariat, A., Noormohammadpour, P., Memari, A. H., Ansari, N. N., Cleland, J. A., & Kordi, R. (2018). Acute effects of one session dry needling on a chronic golfer's elbow disability. *Journal of Exercise Rehabilitation*, 14(1), 138–142. <https://doi.org/10.12965/jer.1836008.004>
- Sheikh Hoseini, R., & Arab, A. M. (2018). Dry Needling in myofascial tracks in Non-Relaxing Pelvic Floor Dysfunction: A case study. *Journal of Bodywork and Movement Therapies*, 22(2), 337–340. <https://doi.org/10.1016/j.jbmt.2017.09.016>
- Shinbara, H., Okubo, M., Kimura, K., Mizunuma, K., & Sumiya, E. (2013). Participation of calcitonin gene related peptide released via axon reflex in the local increase in muscle blood flow following manual acupuncture. *Acupuncture in Medicine*, 31(1), 81–87. <https://doi.org/10.1136/acupmed-2012-010253>
- Sillevis, R., Van Duijn, J., Shamus, E., & Hard, M. (2019). Time effect for in-situ dry needling on the autonomic nervous system, a pilot study. *Physiotherapy Theory and Practice*, 1–9. <https://doi.org/10.1080/09593985.2019.1644691>
- Simons, D. G., & Travell, J. (1981). Myofascial trigger points, a possible explanation. *Pain*, 10(1), 106–109. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/7232007>
- Simons, D. G. (2008). New views of myofascial trigger points: etiology and diagnosis. *Archives of Physical Medicine and Rehabilitation*, 89(1), 157–159. <https://doi.org/10.1016/j.apmr.2007.11.016>
- Simons, D. G. (2004). Review of enigmatic MTrPs as a common cause of enigmatic musculoskeletal pain and dysfunction. *Journal of Electromyography and Kinesiology : Official Journal of the International Society of Electrophysiological Kinesiology*, 14(1), 95–107. <https://doi.org/10.1016/j.jelekin.2003.09.018>
- Singla, N. et al. (2020). Dry needling of upper trapezius for pain relief: Can number of sessions decide the outcome? *Asia Pacific J of Multidisciplinary Research*, 8(1), 112–116.
- Skorupska, E., Rychlik, M., & Samborski, W. (2015). Intensive vasodilatation in the sciatic pain area after dry needling. *BMC Complementary and Alternative Medicine*, 15(1), 72. <https://doi.org/10.1186/s12906-015-0587-6>

- Skorupska, E., Rychlik, M., & Samborski, W. (2015). Validation and Test-Retest Reliability of New Thermographic Technique Called Thermovision Technique of Dry Needling for Gluteus Minimus Trigger Points in Sciatica Subjects and TrPs-Negative Healthy Volunteers. *BioMed Research International*, 2015, 546497. <https://doi.org/10.1155/2015/546497>
- Sluka, K. A., Vance, C. G. T., & Lisi, T. L. (2005). High-frequency, but not low-frequency, transcutaneous electrical nerve stimulation reduces aspartate and glutamate release in the spinal cord dorsal horn. *Journal of Neurochemistry*, 95(6), 1794–1801. <https://doi.org/10.1111/j.1471-4159.2005.03511.x>
- Sluka, K. A., Lisi, T. L., & Westlund, K. N. (2006). Increased release of serotonin in the spinal cord during low, but not high, frequency transcutaneous electric nerve stimulation in rats with joint inflammation. *Archives of Physical Medicine and Rehabilitation*, 87(8), 1137–1140. <https://doi.org/10.1016/j.apmr.2006.04.023>
- Snyder, D. D. (2019). Acupuncture gone awry: a case report of a patient who required surgical removal of two single-use filament needles following acupuncture treatment. *Journal of Manual & Manipulative Therapy*, 1–5. <https://doi.org/10.1080/10669817.2019.1608010>
- Soares, A., Andriolo, R. B., Atallah, A. N., & da Silva, E. M. K. (2014). Botulinum toxin for myofascial pain syndromes in adults. *The Cochrane Database of Systematic Reviews*, (7), CD007533. <https://doi.org/10.1002/14651858.CD007533.pub3>
- Somers, D. L., & Clemente, F. R. (2009). Contralateral high or a combination of high- and low-frequency transcutaneous electrical nerve stimulation reduces mechanical allodynia and alters dorsal horn neurotransmitter content in neuropathic rats. *The Journal of Pain : Official Journal of the American Pain Society*, 10(2), 221–229. <https://doi.org/10.1016/j.jpain.2008.08.008>
- Steenjtes, K., de Vries, L. M. A., Ridwan, B. U., & Wijnman, A. J. J. (2016). [Infection of a hip prosthesis after dry needling]. *Nederlands Tijdschrift Voor Geneeskunde*, 160, A9364. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26786794>
- STEINBROCKER, O., ISENBERG, S. A., SILVER, M., NEUSTADT, D., KUHN, P., & SCHITONE, M. (1953). Observations on pain produced by injection of hypertonic saline into muscles and other supportive tissues. *The Journal of Clinical Investigation*, 32(10), 1045–1051. <https://doi.org/10.1172/JCI102815>
- Stoychev, V., Finestone, A. S., & Kalichman, L. (2020). Dry Needling as a Treatment Modality for Tendinopathy: a Narrative Review. *Current Reviews in Musculoskeletal Medicine*. <https://doi.org/10.1007/s12178-020-09608-0>
- Suzuki, T., Iwamoto, T., Matsumura, N., Nakamura, M., Matsumoto, M., & Sato, K. (2019). Percutaneous Tendon Needling without Ultrasonography for Lateral Epicondylitis. *The Keio Journal of Medicine*. <https://doi.org/10.2302/kjm.2019-0004-OA>

- Tabatabaiee, A., Ebrahimi Takamjani, I., Sarrafzadeh, J., Salehi, R., & Ahmadi, M. (2019). Ultrasound-Guided Dry Needling Decreases Pain in Patients with Piriformis Syndrome. *Muscle & Nerve*, mus.26671. <https://doi.org/10.1002/mus.26671>
- Taheri, N., Rezasoltani, A., Okhovatian, F., Karami, M., Hosseini, S. M., & Kouhzad Mohammadi, H. (2016). Quantification of dry needling on myofascial trigger points using a novel ultrasound method: A study protocol. *Journal of Bodywork and Movement Therapies*, 20(3), 471–476. <https://doi.org/10.1016/j.jbmt.2015.11.011>
- Tang, L., Li, Y., Huang, Q.-M., & Yang, Y. (2018). Dry needling at myofascial trigger points mitigates chronic post-stroke shoulder spasticity. *Neural Regeneration Research*, 13(4), 673. <https://doi.org/10.4103/1673-5374.230293>
- Taşkesen, F., & Cezairli, B. (2020). The effectiveness of the masseteric nerve block compared with trigger point injections and dry needling in myofascial pain. *Cranio - Journal of Craniomandibular Practice*. <https://doi.org/10.1080/08869634.2020.1820686>
- Tekin, L., Akarsu, S., Durmuş, O., Cakar, E., Dinçer, U., & Kıralp, M. Z. (2013). The effect of dry needling in the treatment of myofascial pain syndrome: a randomized double-blinded placebo-controlled trial. *Clinical Rheumatology*, 32(3), 309–315. <https://doi.org/10.1007/s10067-012-2112-3>
- Tesch, R. D. S., Macedo, L. C. D. S. P., Fernandes, F. S., Goffredo Filho, G. S. De, & Goes, C. P. D. Q. F. (2019). Effectiveness of dry needling on the local pressure pain threshold in patients with masticatory myofascial pain. Systematic review and preliminary clinical trial. *CRANIO®*, 1–9. <https://doi.org/10.1080/08869634.2019.1588518>
- Thanuja Raju, A. V, Kannan, R., & Jacob, T. R. (2015). A Novel Case of Orofacial Pain Treated by Dry Needling Technique - A Case Report. *Dentistry*, 05(08). <https://doi.org/10.4172/2161-1122.1000319>
- Thompson, R., Prosell, M., & Timpka, T. (2020). Elite athletes' experiences of musculoskeletal pain management using neuroanatomical dry needling: A qualitative study in Swedish track and field. *Journal of Science and Medicine in Sport*. <https://doi.org/10.1016/j.jsams.2020.07.004>
- Travell, J. G., & Simons, D. G. (1999). *Myofascial Pain and Dysfunction: The Trigger Point Manual. Volume 1. Upper Half of Body. Volume 1*. [https://doi.org/10.1016/S0022-3999\(01\)00200-8](https://doi.org/10.1016/S0022-3999(01)00200-8)
- Treaster, D., Marras, W. S., Burr, D., Sheedy, J. E., & Hart, D. (2006). Myofascial trigger point development from visual and postural stressors during computer work. *Journal of Electromyography and Kinesiology*, 16(2), 115–124. <https://doi.org/10.1016/j.jelekin.2005.06.016>

- Tsai, C.-T., Hsieh, L.-F., Kuan, T.-S., Kao, M.-J., Chou, L.-W., & Hong, C.-Z. (2010). Remote effects of dry needling on the irritability of the myofascial trigger point in the upper trapezius muscle. *American Journal of Physical Medicine & Rehabilitation / Association of Academic Physiatrists*, 89(2), 133–140. <https://doi.org/10.1097/PHM.0b013e3181a5b1bc>
- Tsikopoulos, K., Tsikopoulos, I., Simeonidis, E., Papathanasiou, E., Haidich, A.-B., Anastasopoulos, N., & Natsis, K. (2016). The clinical impact of platelet-rich plasma on tendinopathy compared to placebo or dry needling injections: A meta-analysis. *Physical Therapy in Sport : Official Journal of the Association of Chartered Physiotherapists in Sports Medicine*, 17, 87–94. <https://doi.org/10.1016/j.ptsp.2015.06.003>
- Turo, D., Otto, P., Hossain, M., Gebreab, T., Armstrong, K., Rosenberger, W. F., ... Sikdar, S. (2015). Novel Use of Ultrasound Elastography to Quantify Muscle Tissue Changes After Dry Needling of Myofascial Trigger Points in Patients With Chronic Myofascial Pain. *Journal of Ultrasound in Medicine : Official Journal of the American Institute of Ultrasound in Medicine*, 34(12), 2149–2161. <https://doi.org/10.7863/ultra.14.08033>
- Tüzün, E. H., Gildir, S., Angın, E., Tecer, B. H., Dana, K. Ö., & Malkoç, M. (2017). Effectiveness of dry needling versus a classical physiotherapy program in patients with chronic low-back pain: a single-blind, randomized, controlled trial. *Journal of Physical Therapy Science*, 29(9). <https://doi.org/10.1589/jpts.29.1502>
- Uemoto, L., Nascimento de Azevedo, R., Almeida Alfaya, T., Nunes Jardim Reis, R., Depes de Gouvêa, C. V., & Cavalcanti Garcia, M. A. (2013). Myofascial trigger point therapy: laser therapy and dry needling. *Current Pain and Headache Reports*, 17(9), 357. <https://doi.org/10.1007/s11916-013-0357-4>
- Unalan, H., Majlesi, J., Aydin, F. Y., & Palamar, D. (2011). Comparison of high-power pain threshold ultrasound therapy with local injection in the treatment of active myofascial trigger points of the upper trapezius muscle. *Archives of Physical Medicine and Rehabilitation*, 92(4), 657–662. <https://doi.org/10.1016/j.apmr.2010.11.030>
- Unverzagt, C., Berglund, K., & Thomas, J. J. (2015). DRY NEEDLING FOR MYOFASCIAL TRIGGER POINT PAIN: A CLINICAL COMMENTARY. *International Journal of Sports Physical Therapy*, 10(3), 402–418. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26075156>
- UYGUR, E., AKTAŞ, B., & Gül YILMAZOĞLU, E. (2020). The use of dry needling versus corticosteroid injection to treat lateral epicondylitis: a prospective, randomized, controlled study. *Journal of Shoulder and Elbow Surgery*. <https://doi.org/10.1016/j.jse.2020.08.044>
- UYGUR, E., AKTAŞ, B., ÖZKUT, A., ERİNÇ, S., & YILMAZOĞLU, E. G. (2017). Dry needling in lateral epicondylitis: a prospective controlled study. *International Orthopaedics*, 41(11), 2321–2325. <https://doi.org/10.1007/s00264-017-3604-1>

- Uzar, T., Turkmen, I., Menekse, E. B., Dirican, A., Ekaterina, P., & Ozkaya, S. (2018). A case with iatrogenic pneumothorax due to deep dry needling. *Radiology Case Reports, 13*(6), 1246–1248. <https://doi.org/10.1016/j.radcr.2018.08.019>
- Valencia-Chulián, R., Heredia-Rizo, A. M., Moral-Munoz, J. A., Lucena-Anton, D., & Luque-Moreno, C. (2020). Dry needling for the management of spasticity, pain, and range of movement in adults after stroke: A systematic review. *Complementary Therapies in Medicine, 52*. <https://doi.org/10.1016/j.ctim.2020.102515>
- Valera-Calero, J. A., Laguna-Rastrojo, L., de-Jesús-Franco, F., Cimadevilla-Fernández-Pola, E., Cleland, J. A., Fernández-de-las-Peñas, C., & Arias-Buría, J. L. (2020). Prediction Model of Soleus Muscle Depth Based on Anthropometric Features: Potential Applications for Dry Needling. *Diagnostics, 10*(5), 284. <https://doi.org/10.3390/diagnostics10050284>
- Vas, L., Phanse, S., & Pai, R. (2016). A New Perspective of Neuromyopathy to Explain Intractable Pancreatic Cancer Pains; Dry Needling as an Effective Adjunct to Neurolytic Blocks. *Indian J Palliat Care, 22*(1), 85–93. <https://doi.org/10.4103/0973-1075.173957>
- Vas, L. C., Pai, R., & Pattnaik, M. (2016). Musculoskeletal Ultrasonography in CRPS: Assessment of Muscles Before and After Motor Function Recovery with Dry Needling as the Sole Treatment. *Pain Physician, 19*(1), E163-80. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26752485>
- Vas, L., Khandagale, N., & Pai, R. (2014). Successful management of chronic postsurgical pain following total knee replacement. *Pain Medicine (Malden, Mass.), 15*(10), 1781–1785. <https://doi.org/10.1111/pme.12508>
- Vas, L., & Pai, R. (n.d.). Ultrasound-Guided Dry Needling As a Treatment For Postmastectomy Pain Syndrome - A Case Series of Twenty Patients. *Indian Journal of Palliative Care, 25*(1), 93–102. https://doi.org/10.4103/IJPC.IJPC_24_18
- Vas, L., & Pai, R. (2016). Complex Regional Pain Syndrome-Type 1 Presenting as deQuervain's Stenosing Tenosynovitis. *Pain Physician, 19*(1), E227-34. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26752490>
- Vas, L., Pai, R., Geete, D., & Verma, C. V. (2017). Improvement in CRPS After Deep Dry Needling Suggests a Role in Myofascial Pain. *Pain Medicine*. <https://doi.org/10.1093/pm/pnx124>
- Vázquez-Justes, D., Yarzabal-Rodríguez, R., Doménech-García, V., Herrero, P., & Bellosta-López, P. (2020). Effectiveness of dry needling for headache: A systematic review. *Neurologia*. Spanish Society of Neurology. <https://doi.org/10.1016/j.nrl.2019.09.010>
- Velázquez-Saornil, J., Ruíz-Ruíz, B., Rodríguez-Sanz, D., Romero-Morales, C., López-López, D., & Calvo-Lobo, C. (2017). Efficacy of quadriceps vastus medialis dry needling in a

rehabilitation protocol after surgical reconstruction of complete anterior cruciate ligament rupture. *Medicine*, 96(17), e6726. <https://doi.org/10.1097/MD.0000000000006726>

- Vulfsons, S., Ratmansky, M., & Kalichman, L. (2012). Trigger point needling: techniques and outcome. *Current Pain and Headache Reports*, 16(5), 407–412. <https://doi.org/10.1007/s11916-012-0279-6>
- Wang, G., Gao, Q., Hou, J., & Li, J. (2014). Effects of Temperature on Chronic Trapezius Myofascial Pain Syndrome during Dry Needling Therapy. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2014, 638268. <https://doi.org/10.1155/2014/638268>
- Wang, G., Gao, Q., Li, J., Tian, Y., & Hou, J. (2016). Impact of Needle Diameter on Long-Term Dry Needling Treatment of Chronic Lumbar Myofascial Pain Syndrome. *American Journal of Physical Medicine & Rehabilitation*, 95(7), 483–494. <https://doi.org/10.1097/PHM.0000000000000401>
- Wang, G., Wang, X., Gao, Q., Zhou, M., & Wang, N. (2020). Effects of Heating-Conduction Dry Needling Therapy on Rats with Chronic Myofascial Pain Syndrome. *Journal of Manipulative and Physiological Therapeutics*. <https://doi.org/10.1016/j.jmpt.2019.05.008>
- Wang, L. li, Shan, L., Du, L., Zhang, Y., & Jia, F. yong. (2020). Comparison of Electroacupuncture and Body Acupuncture on Gastrocnemius Muscle Tone in Children with Spastic Cerebral Palsy: A Single Blinded, Randomized Controlled Pilot Trial. *Chinese Journal of Integrative Medicine*, 26(1), 14–19. <https://doi.org/10.1007/s11655-019-3082-y>
- Wang-Price, S., Zafereo, J., Couch, Z., Brizzolara, K., Heins, T., & Smith, L. (2020). Short-term effects of two deep dry needling techniques on pressure pain thresholds and electromyographic amplitude of the lumbosacral multifidus in patients with low back pain - a randomized clinical trial. *The Journal of Manual & Manipulative Therapy*, 1–12. <https://doi.org/10.1080/10669817.2020.1714165>
- Wei, Y., Mei, L., Long, X., Wang, X., Diao, Y., Nguchu, B. A., ... Qiu, B. (2020). Functional MRI Investigation of Ultrasound Stimulation at ST 36. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2020, 6794013. <https://doi.org/10.1155/2020/6794013>
- Weiner, D. K., Moore, C. G., Morone, N. E., Lee, E. S., & Kent Kwoh, C. (2013). Efficacy of periosteal stimulation for chronic pain associated with advanced knee osteoarthritis: a randomized, controlled clinical trial. *Clinical Therapeutics*, 35(11), 1703-20.e5. <https://doi.org/10.1016/j.clinthera.2013.09.025>
- White, A., Hayhoe, S., Hart, A., Ernst, E., & BMAS and AACP. British Medical Acupuncture Society and Acupuncture Association of Chartered Physiotherapists. (2001). Survey of Adverse Events following Acupuncture (Safa): A Prospective Study of 32,000 Consultations. *Acupuncture in Medicine*, 19(2), 84–92. <https://doi.org/10.1136/aim.19.2.84>

- White, P. F., Craig, W. F., Vakharia, A. S., Ghoname, E., Ahmed, H. E., & Hamza, M. A. (2000). Percutaneous neuromodulation therapy: does the location of electrical stimulation effect the acute analgesic response? *Anesthesia and Analgesia*, *91*(4), 949–954. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/11004055>
- Whittaker, G. A., Munteanu, S. E., Menz, H. B., Bonanno, D. R., Gerrard, J. M., & Landorf, K. B. (2019). Corticosteroid injection for plantar heel pain: a systematic review and meta-analysis. *BMC Musculoskeletal Disorders*, *20*(1), 378. <https://doi.org/10.1186/s12891-019-2749-z>
- Witt, C. M., Pach, D., Brinkhaus, B., Wruck, K., Tag, B., Mank, S., & Willich, S. N. (2009). Safety of Acupuncture: Results of a Prospective Observational Study with 229,230 Patients and Introduction of a Medical Information and Consent Form. *Complementary Medicine Research*, *16*(2), 91–97. <https://doi.org/10.1159/000209315>
- Womack, A., Butts, R., & Dunning, J. (2020). Dry needling as a novel intervention for cervicogenic somatosensory tinnitus: a case study. *Physiotherapy Theory and Practice*, 1–9. <https://doi.org/10.1080/09593985.2020.1825579>
- XH, L., XL, C., SL, L., JY, X., & XJ, G. (2020). Ultrasound-Guided Inactivation of Trigger Points Combined With Muscle Fascia Stripping by Liquid Knife in Treatment of Postherpetic Neuralgia Complicated With Abdominal Myofascial Pain Syndrome: A Prospective and Controlled Clinical Study. *Pain Research & Management*, *2020*. <https://doi.org/10.1155/2020/4298509>
- Xia, B., Xie, Y., Hu, S., Xu, T., & Tong, P. (2018). Effect of Auricular Point Acupressure on Axial Neck Pain After Anterior Cervical Discectomy and Fusion: A Randomized Controlled Trial. *Pain Medicine*, *19*(1), 193–201. <https://doi.org/10.1093/pm/pnx112>
- Xie, P., Qin, B., Yang, F., Yu, T., Yu, J., Wang, J., & Zheng, H. (2015). Lidocaine injection in the intramuscular innervation zone can effectively treat chronic neck pain caused by MTrPs in the trapezius muscle. *Pain Physician*, *18*(5), 815–826. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26431135>
- Xu, G., Xi, Q., Tang, W., Liu, T., Gao, M., Li, S., ... Yang, H. (2019). Effect of different twirling and rotating acupuncture manipulation techniques on the blood flow perfusion at acupoints. *Journal of Traditional Chinese Medicine = Chung i Tsa Chih Ying Wen Pan*, *39*(5), 730–739. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/32186124>
- Xu, S., Wang, L., Cooper, E., Zhang, M., Manheimer, E., Berman, B., ... Lao, L. (2013). Adverse events of acupuncture: a systematic review of case reports. *Evidence-Based Complementary and Alternative Medicine : ECAM*, *2013*, 581203. <https://doi.org/10.1155/2013/581203>

- Yaghoubi, Z., Pardehshenas, H., & Takamjani, I. E. (2018). The effect of upper trapezius muscle dry needling treatment on sleep quality: A case report. *Journal of Bodywork and Movement Therapies*, 22(2), 333–336. <https://doi.org/10.1016/j.jbmt.2017.05.020>
- Yamamoto, H., Kawada, T., Kamiya, A., Miyazaki, S., & Sugimachi, M. (2011). Involvement of the mechanoreceptors in the sensory mechanisms of manual and electrical acupuncture. *Autonomic Neuroscience*, 160(1–2), 27–31. <https://doi.org/10.1016/J.AUTNEU.2010.11.004>
- Yang, S.-D., Chen, Q., & Ding, W.-Y. (2018). Cauda Equina Syndrome Due to Vigorous Back Massage With Spinal Manipulation in a Patient With Pre-Existing Lumbar Disc Herniation. *American Journal of Physical Medicine & Rehabilitation*, 97(4), e23–e26. <https://doi.org/10.1097/PHM.0000000000000809>
- Yassin, M., Talebian, S., Ebrahimi Takamjani, I., Maroufi, N., Ahmadi, A., Sarrafzadeh, J., & Emrani, A. (2015). The effects of arm movement on reaction time in patients with latent and active upper trapezius myofascial trigger point. *Medical Journal of the Islamic Republic of Iran*, 29, 295. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26913258>
- Zarei, H., Bervis, S., Piroozi, S., & Motealleh, A. (2019). Added value of gluteus medius and quadratus lumborum dry needling in improving knee pain and function in female athletes with patellofemoral pain: a randomized clinical trial. *Archives of Physical Medicine and Rehabilitation*. <https://doi.org/10.1016/j.apmr.2019.07.009>
- Zhang, J.-M., & An, J. (2007). Cytokines, inflammation, and pain. *International Anesthesiology Clinics*, 45(2), 27–37. <https://doi.org/10.1097/AIA.0b013e318034194e>
- Zhang, R., Lao, L., Ren, K., & Berman, B. M. (2014, February). Mechanisms of acupuncture-electroacupuncture on persistent pain. *Anesthesiology*. <https://doi.org/10.1097/ALN.000000000000101>
- Zhang, R., Lao, L., Ren, K., & Berman, B. M. (2014). Mechanisms of Acupuncture–Electroacupuncture on Persistent Pain. *Anesthesiology*, 120(2), 482–503. <https://doi.org/10.1097/ALN.000000000000101>
- Zhang, Y., Zhang, R. X., Zhang, M., Shen, X. Y., Li, A., Xin, J., ... Lao, L. (2012). Electroacupuncture inhibition of hyperalgesia in an inflammatory pain rat model: involvement of distinct spinal serotonin and norepinephrine receptor subtypes. *British Journal of Anaesthesia*, 109(2), 245–252. <https://doi.org/10.1093/bja/aes136>
- Zhi Wei, D., Yu, S., & Yongqiang, Z. (2016). Perforators, the Underlying Anatomy of Acupuncture Points. *Alternative Therapies in Health and Medicine*, 22(3), 25–30. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/27228269>
- Zhou, J.-P., Yu, J.-F., Feng, Y.-N., Liu, C.-L., Su, P., Shen, S.-H., & Zhang, Z.-J. (2020). Modulation in the elastic properties of gastrocnemius muscle heads in individuals with

plantar fasciitis and its relationship with pain. *Scientific Reports*, 10(1), 2770.
<https://doi.org/10.1038/s41598-020-59715-8>

Zhou, K., Ma, Y., & Brogan, M. S. (2015). Dry needling versus acupuncture: the ongoing debate. *Acupuncture in Medicine : Journal of the British Medical Acupuncture Society*, 33(6), 485–490. <https://doi.org/10.1136/acupmed-2015-010911>