



Objectives

- Define the treatment
- Precautions/contraindications
- Adverse Reactions
- Benefit of treatment
- Research
- Demonstration
- Questions



What is this intervention?

- Dry needling: A skilled intervention performed by a physical therapist that uses a thin filiform needle to penetrate the skin and stimulate underlying myofascial trigger points, muscular and connective tissues for the management of neuromusculoskeletal pain and movement impairments
- > This is NOT wet needling or injection based needling
 - Origins of treatment/trigger points

(APTA Description of Dry Needling in Clinical Practice: an Educational Resource Paper, 2013)





Functional Example	
Thought experiment involving the lumbar spine	
Transverse Process Spinous Process Inter ventebral Disc Facet de inte Huttifidus Musele Spinal	





Additional Precautions (KinetaCore vs. APTA)

- > Area over implant (breast, spinal stimulator etc.)
- Area over laminectomy
- Scoliosis
- Severe osteoporosis
- Post-surgical (dermatological and open joint vs. arthroscopic)



















Resources

- Brady, S., Mcevoy, J., Dommerholt, J., & Doody, C. (2013). Adverse events following trigger point dry needling: A prospective survey of chartered physiotherapists. *Journal of Manual & Manipulative Therapy, 22*(3), 134-140. doi:10.1179/2042618613y.0000000044
- Description of Dry Needling in Clinical Practice [An educational resource paper]. (2013, February). Produced by the APTA Public Policy, Practice, and Professional Affairs Unit
- Maher, R., Hayes, D., & Shinohara, M. (2015). Quantification of Dry Needling and Posture Effects on Myofascial Trigger Points Using Shear Wave Elastography. *Ultrasound in Medicine & Biology, 41*(4). doi:10.1016/j.apmr.2013.04.021
- Mayoral, O., Salvat, I., Martín, M. T., Martín, S., Santiago, J., Cotarelo, J., & Rodríguez, C. (2013). Efficacy of Myofascial Trigger Point Dry Needling in the Prevention of Pain after Total Knee Arthroplasty: A Randomized, Double-Blinded, Placebo-Controlled Trial. *Evidence-Based Complementary and Alternative Medicine, 2013*, 1-8. doi:10.1155/2013/694941
- Shah, J. P., Phillips, T. M., Danoff, J. V., & Gerber, L. H. (2005). An in vivo microanalytical technique for measuring the local biochemical milieu of human skeletal muscle. *Journal of Applied Physiology, 99*(5), 1977-1984. doi:10.1152/japplphysiol.00419.2005

