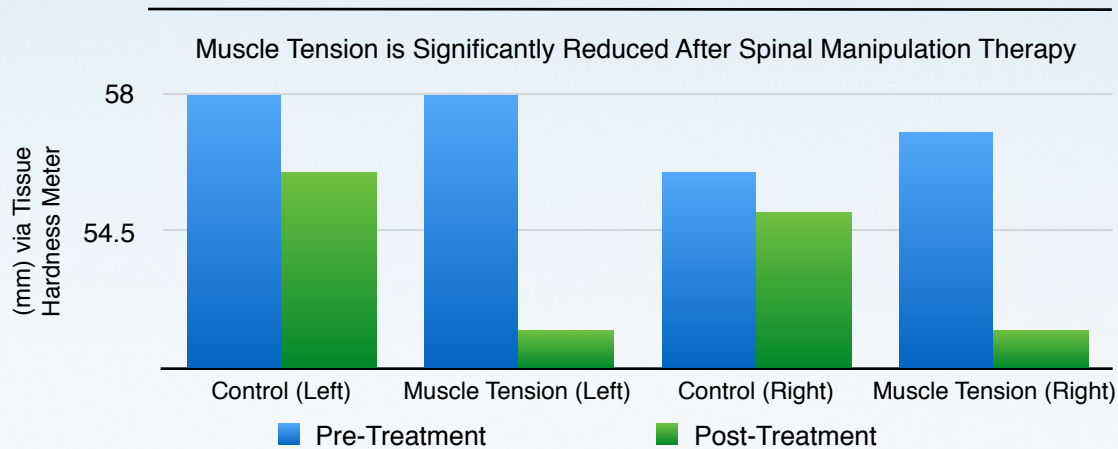


Glucose Metabolic Changes in the Brain and Muscles of Patients with Nonspecific Neck Pain Treated by Spinal Manipulation Therapy

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Spinal manipulation therapy (SMT), a hallmark of chiropractic care, has been proven to reduce pain, improve range of motion, and activate the central nervous system. New research has begun to show how the stimulation of mechanoreceptors in a spinal segment are processed in the brain.

Patients receiving SMT have a decrease in sympathetic nerve activity and experience physiological relaxation. This is highlighted by a decrease in muscle tension and reduction in pain. Decreased pain and improved function have been well-documented improvements as a result of chiropractic manipulation.

Chiropractic care has long been considered a safe and effective treatment option for a variety of health conditions. New research, such as this paper, advance our understanding of how a chiropractic manipulation can impact the physiology within the body, and why the benefits of treatment are received.

“Changes in brain activity after SMT included activation of the dorsal anterior cingulate cortex, cerebellar vermis, and somatosensory association cortex and deactivation of the prefrontal cortex and temporal sites.”

“...cervical muscle tension was significantly reduced bilaterally after SMT.”

“...we observed metabolic changes in the brain and skeletal muscles, as well as reductions in subjective pain, muscle tension, and salivary amylase, after SMT intervention. These results may be associated with reduced sympathetic nerve activity...”

We believe in creating a healthier community. We believe patients have better outcomes when physicians work together. Let's build a healthier tomorrow.