Kinesiological Taping Effects After Carpal Tunnel Syndrome Surgeries

Karpal Tünel Sendromu Operasyonları Sonrası Kinezyolojik Bantlama Etkileri

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To the Editor;
A 44-year-old, right-handed female patient presented with a 3-year history of left hand numbness and pain in the median nerve distribution and who was operated for right carpal tunnel syndrome (CTS) two months ago, applied to our clinic. She did not report any trauma to the wrist before symptoms onset and after the surgery. Her pain was not responsive to non-steroidal anti-inflammatory drugs or any other drugs. The medical history was otherwise noncontributory. On the physical examination; Tinel’s sign was positive on the left wrist operation area. There was not significant atrophy of the thenar muscles; paresthesia in the lateral three and a half digits in the distribution of the median nerve existed. Fifteen minutes of transcutaneous electrical nerve stimulation, and 10 minutes of therapeutic exercise, including wrist common extensor-flexor stretching and self-massage were given her. After 10 sessions programme there was not a significant decrease in her symptoms. Because of this situation a magnetic resonance imaging (MRI) was planned. MRI showed a possible triangular fibrocartilage complex damage. She was consulted to orthopedic clinic due to MRI findings and she was not advised for a new operation. After all, performing of kinesiological taping for median nerve relaxation was included to the programme and her symptoms were dramatically decreased. After 20 session of therapy and 10 day kinesiological taping for median nerve relaxation her visual analog scale values was decreased 8 to 4. CTS is a neurological condition caused by compression of the median nerve at the wrist due to increased pressure with in the carpal tunnel (1). Patients with CTS usually present with sensory or motor symptoms, or both, in the hand and wrist. CTS symptoms include pain in hand, loss of strength, atrophy of the hand muscles, and dysesthesia (2). The prevalence of CTS in the general population is 3.8% when diagnosed clinically and 2.7% when diagnosed neurophysiologically (3). Some authors have reported that occupational risk factors, such as vibration, force and repetition (4). Other risk factors for CTS are obesity, diabetes mellitus, previous wrist fracture, and arthritis (5). Although the pathophysiology of CTS needs early diagnosis and immediate treatments, we underscore the fact that kinesiological taping should be considered in the treatment of CTS, especially after surgeries. Accordingly, additional high-quality studies with larger sample sizes and longer study duration are needed in order to further assess the effects of kinesiological taping on CTS and after CTS surgeries.

Keywords: Carpal tunnel syndrome, kinesiological taping, pain

Anahtar kelimeler: Karpal túnel sendromu, kinezyolojik bantlama, ağrı

Ethics

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References