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, admitted to our clinic. She did not report trauma to the wrist before symptom onset and there was not a family history of neurofibromatosis. Her pain was not responsive to any drugs. Electromyography and nerve conduction studies indicated left hand median nerve neuropathy at the wrist. Also, she did not report history of any constitutional symptoms. On the other hand, she did not have a history of endocrinological or rheumatological diseases in her family. On the physical examination; Tinel’s sign was positive on the left hand. There was not significant atrophy of the thenar muscles in her hand and hypoalgesia, paresthesia in the lateral three and a half digits in the distribution of the median nerve were existed and external stigmata of neurofibromatosis were absent. Magnetic resonance imaging (MRI) scans of the left forearm and hand showed a lipoma located near the flexor tendons and hand showed a lipoma located near the flexor tendons beyond the transverse carpal ligament (Figure 1). Carpal tunnel syndrome (CTS) is a common neurological disorder which is associated with the compression of the median nerve at the wrist (1). Sensory or motor symptoms at the median nerve distribution in the hand are the characteristics of the CTS. Pain, weakness of the hand muscles and paresthesia are common symptoms of the CTS (2). Although, the pathophysiology is still remains unclear, the main mechanism of the CTS is associated with compression of the median nerve (3). Deep soft-tissue lipomas are known as benign soft-tissue tumors and these tumors can be related to local compression of the adjacent peripheric nerves (4). These nerve compressions are exceptionally for median nerve (5). Although, CTS is a common disease and often appeared idiopathically, lipomas can cause median nerve compressions rarely. If the pathology can shown clearly, treatment would be more successful and surgeries can be more effective. The present patient was suggested for an operation for the lipoma associated CTS, but she did not accept the surgery and so, we could not have a certain classification for the lipoma due to pathological examination absence, this was a limitation. It should be pointed that patients whom have symptoms and signs of CTS (especially for a long time), can be related to the masses of the soft tissues. This situation can affect the treatment. If a lipoma exists and the clinician shows it clearly with imaging techniques (ultrasound/MRI), it will be helpful for the CTS operations and to prevent surgery surprises.

**Keywords:** Carpal tunnel syndrome, deep tissue lipomas, early diagnosis

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**Figure 1.** Magnetic resonance imaging investigations, A) magnetic resonance images of the patient shows thickening and oedema that is, a coaxial cable appearance on the axial view, B) magnetic resonance images of the patient show typical features of lipomas (1.5 Tesla magnetic resonance imaging, standard T1A spin-echo sequences, repetition time 300 ms, field of view 300 mm, echo time, 25 ms, slice thickness 4 mm, number of signal averages, 4)
Ethics

Peer-review: Internally peer-reviewed.

References