Dear Editor,

Leiomyoma, also known as fibroids, is a benign neoplasm, which can develop anywhere in the body where smooth muscle is present. It is especially present in the uterus of middle-aged women. Occurrences in other locations are less frequent. According to histology, three types of leiomyoma – solid, cavernous and venous - are distinguished. The tumours are benign, but the leiomyosarcoma must be differentiated by histology. If the tumour occurs on the extremities, it is more likely situated in the lower extremities [1]. The localization in the palm is quite rare [2] although there were several cases of leiomyoma of the fingers [3–4]. The first leiomyoma in the palm was described in 1960 and by 2009 about 150 cases of the tumour in the hand region were described [2].

We present a case of a 55-year-old female patient who due to the wrong diagnosis and insufficient examination had to suffer for several decades. From 1981 till 2016 the patient experienced a lump in the first interdigital space and second metacarpal bone. Apart from the symptoms characteristic of carpal tunnel syndrome, she suffered from severe pain, yet no imaging studies were performed to eliminate the possibility of a tumour of the hand. The patient underwent repeated surgical interventions (1982, 1989, 1998, and 2006) at different facilities due to carpal tunnel syndrome. There were some improvements at the beginning, but overall they were ineffective. In January 2016, this patient was examined again. The examination showed a clear palpable mass in the region of the first interdigital space and the second metacarpal bone. Magnetic resonance imaging (MRI) was completed, showing spherical expansion without a direct relation to the branches of the median nerve in the region between the second and third metacarpal bone (Fig. 1A).

The patient expressed severe hypoaesthesia of the first three fingers, weakened hand-grip muscle power and restricted opposition of the thumb. According to EMG, the reduced amplitude of the motor response of the median nerve, normal distal motor latency and slightly decreased amplitudes of sensory responses in the first and second fingers, and decreased sensory conduction velocity were shown. On January 11, 2016, microscopic surgery under general anaesthesia was performed. The incision was made through the previous scar towards the centre of the palm and further peripherally over the second metacarpal bone. First, the main trunk of the median nerve from the hardened scar was dissected, as well as the severely altered motor branch of the thenar. Furthermore, the periphery of the spherical mass reaching the first interdigital space in the depth of the palm was dissected. From the capsule of the mass, the thin neural branch was relaxed and the tumour was extirpated in one piece (Fig. 1B).

The tumour was well circumscribed and did not infiltrate the surrounding tissue. The tumour was thought to be schwannoma due to its appearance and relation to the neural branch. According to the definitive histological examination, however, the surprising diagnosis of a leiomyoma was established (Fig. 2).

The sutures were removed on the eleventh postoperative day. The wound was healed. The previous pain ceased completely. The patient expressed an improvement in the sensation of the fingers except for the residual hypoaesthesia of the third finger. The mobility of the fingers was not limited.

This case report is striking since the findings reveal careless management of the whole case. Firstly, it is likely that nobody listened to the patient sufficiently during the previous surgical operations and this led to repeated surgical interventions and prolongation of the pain for an unbearable protracted period of 35 years. Therefore, imaging studies such as ultrasonography or MRI should be conducted as a routine examination, especially in the cases of revision surgery [5]. Carpal tunnel syndrome surgery brings very good results in general [6]. If difficulties recurr, it is necessary to discover whether they are primarily of neurological origin or induced by a different level (cervical spine, supraclavicular or infraclavicular brachial plexus, the course of the me-
In this case, the symptoms were based further peripherally from the carpal tunnel and the tumour was not directly related to the larger branches of the nerve. Nevertheless, the scarring of the nerve surely contributed to the problems of the patient as she has expressed improvement in sensory functions following surgery. The combination of the neural lesion and another pathology may cause confusion. Secondly, the long duration of the painful symptoms for 35 years is quite uncommon, although there is a case of more than fifty years of growth of a tumour in the palm, but without any pain [7].

Therefore, the precise recording of the patient’s medical history, the necessity of a thorough analysis of the symptoms of the patient, and a careful physical examination with subsequent targeted imaging are inevitable in order to maintain the patient’s quality of life.

References