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***AS45 Neurotrauma***

**Improvement of diagnostic and surgical treatment in injuries of the median nerve with the help of MRI and ultrasound examination**

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**Background and aims**

Peripheral nervous system injuries of various etiologies are one of the urgent problems of medicine. The rate of injury of n. medians in peripheral nerves is 13–26 %. This, in turn, causes a number of problems such as disability and social and professional incapacity of the injured. **Aim.** Conducting medical or surgical treatment tactics with effective use of MRI and ultrasound in early and late posttraumatic injuries of the median nerve

## **Methods**

5 patients with posttraumatic injuries of the median nerve were selected. Diagnostic tests performed on patients were studied in detail. All patients underwent dynamic ENMG, MRI and ultrasound examinations.

## **Results**

In patients with a weak or no positive change in dynamics, MRI and ultrasound were performed as indicated. Different forms of total disconnection, partial disconnection, sutures, and compression of surrounding tissues of the median nerve were identified. In 8 out of 12 patients, ultrasound examination was performed and compression of the suture and surrounding scar tissue was detected. Based on the findings, decompression necrolysis, neuroraphia, and neurotization surgery were performed on the

## **Conclusions**

In case of post-traumatic injuries of the median nerve, MRI and ultrasonography, as indicated, provide detailed information about the anatomic condition of the nerve column and surrounding tissues. The conducted examinations lead to an increase in the effectiveness of the treatment with the use of medical and surgical treatment.

## **References (0)**

## **Cited by (0)**