

Controversies and Dilemmas In Surgery Of Injuries And Diseases Of Peripheral Nerves

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Background

The introduction of the microscope in the surgery of injuries and diseases of peripheral nerves has made a fundamental change of operational techniques and significant improvement in the results of treatment. However, despite this, there are numerous controversies, and further improvements in this area brought some new ones, that are still under discussion.

Methods

The purpose of this study was to analyze controversial impact factors which can have influence in final outcome in surgical treatment of injuries and diseases of peripheral nerves. This paper analyzes the most common dilemmas and controversies based on the 30 years of author's experience.

This is primarily related to:

- a. in the injuries of peripheral nerves choice between suture and non suture anastomosis techniques, the choice of the type of nerve transplantation (free or vascularised, interfascicular or cable), and in certain situations a choice between transplant and nerve transfer
- b. in compressive neuropathy, the most common carpal and cubital tunnel, setting criteria for surgical treatment and selection of methods, open or endoscopic surgery
- c. in tumors of peripheral nerves - decision on surgical treatment and the extent of surgery, depending on the type of tumor and clinical presentation

Results

It is well known that when there are more options, there is often no definitive solution. There are no multicentric randomized double blind controlled studies in terms of class I evidence based which result in generally accepted single algorithm for solving these controversies and dilemmas.

Conclusion

According to findings in this study, in any case, decisions are based on the surgeon's experience and selection of method, ie. those with whom he is the most familiar

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