



Outcomes of Surgical Treatment of Peripheral Neuromas of the Hand and Forearm

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J Brachial Plex Peripher Nerve Inj 2023;18:e6–e9.

Abstract

The choice of a specific technique for surgical treatment of neuromas remains a problem. The purpose of this study is to determine the overall effectiveness of surgery as well as to find out whether certain surgical procedures are more effective than others. Twenty-nine patients operated between 1998 and 2018 and followed for at least 12 months were reviewed. Clinical assessment included the identification of a pre- and postoperative Tinel sign, pain visual analog score, two-point discrimination (2PD), and grip strength. Mechanisms of injury included clean lacerations (11), crush injuries (11), and other trauma or surgery (7). Mean time from presentation to surgery was 9 months. Seven surgical procedures involving excision in 10 patients and excision and nerve repair in 19 patients were performed. Pain score improved from an average of 7.1 ± 2.3 to 1.8 ± 1.7 with 27 patients (93%) reporting mild or no postoperative pain. Nine patients complained of residual scar hypersensitivity and six patients had residual positive Tinel. No patient required an additional surgical procedure. 2PD improved from an average of 9.6 ± 4.0 to 6.8 ± 1.0 . The improvement of pain score and 2PD was statistically significant. Nerve repair resulted in marginally better outcomes, in terms of 2PD and grip strength recovery, than excision alone. The mechanism of injury, zone of involvement, time to intervention, or length of follow-up did not have an impact on the outcomes. Although patient numbers in this study are large in comparison to previous studies, larger patient numbers will allow for a multivariate analysis, which can be possible with a prospective multicenter trial.

Keywords

- neuroma
- resection
- reconstruction

Introduction

Neuromas are globular swellings that form as a result of abnormal and disorganized regeneration of unmyelinated nerve endings.^{1–3} Neuromas can be painful due to either persistent mechanical or chemical irritation of the axons within the neuroma or development of spontaneous activity

of neurons within the dorsal root ganglion.⁴ Painful neuroma usually develops following nerve trauma or surgery, affecting 2 to 60% of patients with nerve injuries.^{5–7}

Over 150 treatment methods have been reported to control pain caused by neuroma formation; however, comparative outcome studies are scarce.^{8–12} Various surgical techniques have been reported; the techniques involving neuroma

received
March 20, 2022
accepted after revision
February 3, 2023

DOI: <https://doi.org/10.1055/s-0043-1767673>
ISSN 1749-7221

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