

Traumatic neuroma

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Traumatic [neuroma](#) is a pathological condition of the peripheral nervous system consisting of localized proliferation of injured nerve elements.

In particular, traumatic neuroma results from trauma to a nerve, often during a surgical procedure.

Nerve Injury or Irritation: Neuromas often develop as a response to nerve injury, irritation, or compression. Common causes include surgical procedures, traumatic injuries, repetitive motion, or pressure on a nerve.

see [Entrapment neuropathy](#)

[Neuroma](#) formation following transection of the palmar cutaneous branch (PCB) of the [median nerve](#) as a complication of [carpal tunnel release surgery](#)

[Neuroma](#) of the dorsal sensory branch of the [radial nerve](#)

The symptoms depend on the type of involved nerve (motor and/or sensitive) and on the site and the extension of the lesion. Ultrasound is the best tool to depict the morphology of nerves, especially in traumatic conditions.

Case series

18 patients with neuromas (not transected) occurred after a closed nerve trauma evaluated with clinical and ultrasound assessment. The clinical evaluation was related to the % of increase of cross sectional area as detected by nerve ultrasound respect to normal nerve.

Observed dimensions of neuromas are not related to function until neuroma have cross sectional area 5 times enlarged respect to normal nerve, in this case recovery never occurs.

The study failed to clear detect a relation between cross sectional area enlargement of neuroma and

nerve function, but showed a cut off beyond which prognosis is negative. This result provide some useful information for prognosis, nevertheless we believe that future perspective studies are needed to better understand the timing of developing neuromas and its evolution ¹⁾.

¹⁾

Coraci D, Pazzaglia C, Doneddu PE, Erra C, Paolasso I, Santilli V, Padua L. Post-traumatic neuroma due to closed nerve injury. Is recovery after peripheral nerve trauma related to ultrasonographic neuroma size? Clin Neurol Neurosurg. 2015 Nov 2;139:314-318. doi: 10.1016/j.clineuro.2015.10.034. [Epub ahead of print] PubMed PMID: 26571458.

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Last update: **2024/06/07 02:59**

