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**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 55694

**Manuscript Type:** ORIGINAL ARTICLE

**Case Control Study**

**Clinical** application **of** ultrasound-guided selective proximal and distal  
brachial plexus block in rapid rehabilitation surgery for hand trauma

Zhang J *et al.* Brachial plexus block in hand trauma surgery

Jin Zhang, Man Li, Hai-Bin Jia, Lan Zhang

**Abstract**

BACKGROUND

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## Ultrasound-Guided Pulse-Dose Radiofrequency: Treatment ...

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Neuropathic pain following **brachial plexus** injury is a severe sequela that is difficult to treat. Pulsed radiofrequency (PRF) has been proved to reduce neuropathic pain after nerve injury, even though the underlying mechanism remains unclear. This case report describes the use of ultrasound-guided PRF to reduce neuropathic pain in a double-level upper extremity nerve injury. A 25-year-old man ...

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Context: Ultrasound-guided supraclavicular **brachial plexus block** is ideal for upper limb surgical procedures. Buprenorphine used as an adjuvant to ropivacaine may prolong analgesia.

## Brachial plexus injury in adults: Diagnosis and surgical ...

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Clinical exam and electro physiology can give very adequate evidence of the status of the **plexus** and the indication for **surgery**. **Surgery** for **brachial plexus** injury **Surgery** especially for obstetric **plexus** injuries was pioneered by Kennedy 1903,[ 31 ] Sever 1916[ 32 ] and Wyeth and Sharpe in 1917.[ 33 ]

## Ultrasound-Guided Pulse-Dose Radiofrequency: Treatment ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4261624>

Nov 26, 2014 · No pain relief was obtained by means of **surgery**, **rehabilitation**, and medications.

**Ultrasound-guided** PRF was performed on the ulnar nerve at the elbow level. The median nerve received a PRF treatment at wrist level. After the treatment, the patient reported a consistent reduction of pain in his **hand**. We measured a 70% reduction of pain on the ...

## Axillary Brachial Plexus Block - Landmarks and Nerve ...

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Brachial plexus block at the level of the axilla is typically chosen for anesthesia of the distal upper limb. Axillary block is one of the most common approaches to brachial plexus blockade. Easy landmarks and simplicity make this block suitable for a wide range of surgical procedures



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## Brachial plexus

The brachial plexus is a network of nerves formed by the anterior rami of the lower four cervical nerves and first thoracic nerve. This plexus extends from the spinal cord, through the cervicoaxillary canal in the neck, over the first rib, and into the armpit. It supplies afferent and efferent nerve fibers to the chest, shoulder, arm, forearm, and hand.

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