Ultrasound-guided continuous costoclavicular brachial plexus block – a new approach for pain management in paediatrics physiotherapy

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Background

- Since its first description in 2015^[1], ultrasound-guided costoclavicular brachial plexus block has been increasingly used for anaesthesia and analgesia of the upper limb.
- To our knowledge, there are no reports of its use for pain management during physical therapy.
- We describe the first continuous ultrasound-guided costoclavicular brachial plexus block for physical rehabilitation after a traumatic elbow fracture in a child.

Clinical case

- 12-year-old, 30kg, healthy child, ASA 1

Discussion

- Continuous costoclavicular peripheral nerve block was a successful alternative to pain management in this post-traumatic rehabilitation setting.
- Continuous regional analgesia through costoclavicular approach of brachial plexus may be a valuable option not only for pain control but also for improving functional prognosis during rehabilitation in the paediatric population.

References

[1] Karmakar MK, Sala-Blanch X, Songthamwat B, Tsui BC. Benefits of the costoclavicular space for ultrasound-guided infraclavicular brachial plexus block: description of a costoclavicular approach. *Reg Anesth Pain Med* 2015;40:287–288.