

CLINICAL IMAGES

Anatomy variation of brachial plexus trunks during supraclavicular nerve block: clinical image



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For successful ultrasound-guided peripheral nerve block, recognition of anatomy of interest either as normal or abnormal is vital. We report the image of anatomical variation of brachial plexus at supraclavicular level in a 28-year-old healthy male with no significant medical history and no prior neck surgery, injury, or radiation exposure who came for wrist surgery. A caudal tilt towards ipsilateral lung during supraclavicular ultrasound scanning revealed the presence of superior and middle trucks, superior and medial to subcla-

vian artery respectively rather than being situated lateral to artery along with inferior trunk (Fig. 1). Anomalies of brachial plexus have usually been reported in interscalene region.¹ Rarely a single trunk abnormality has been reported in supraclavicular region.² Thus, our report of images of deviation of two trunks are clinically compelling. When there are alterations in signaling between mesenchymal and neuronal growth cones or circulatory factors at time of development of brachial plexus such abnormalities can

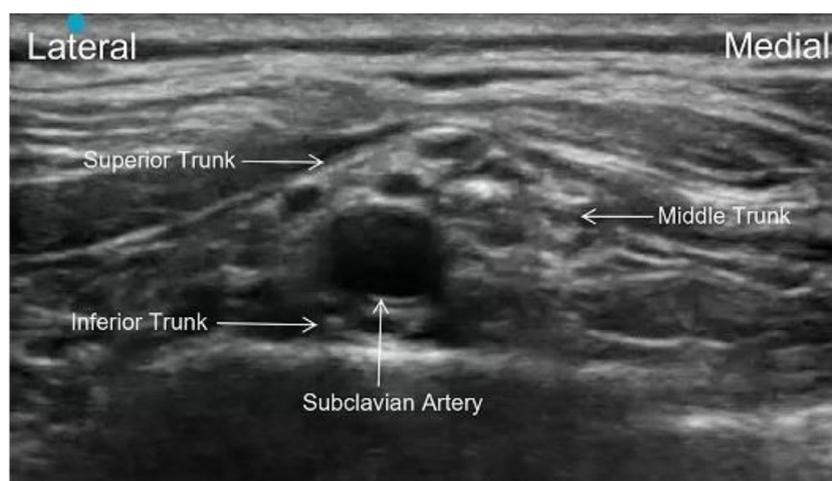


Figure 1 Brachial plexus anomaly at supraclavicular level with superior and middle trunks superior and medial to subclavian artery, respectively.

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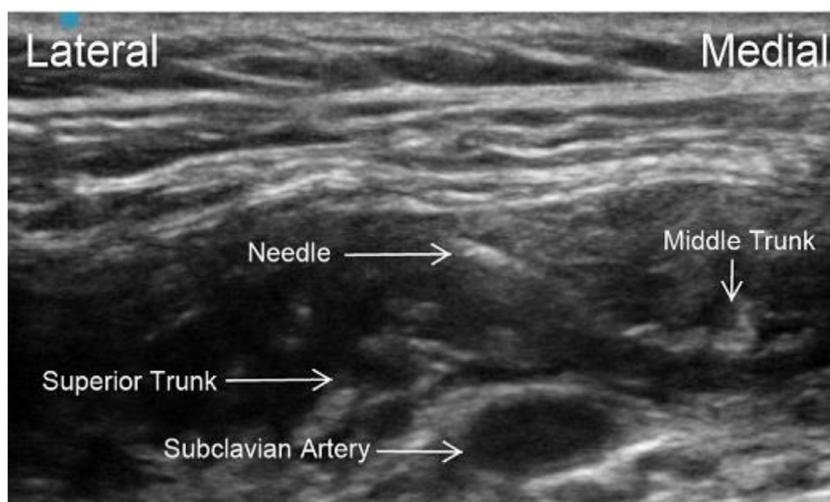


Figure 2 Targeted blocking of superior and middle trunks.

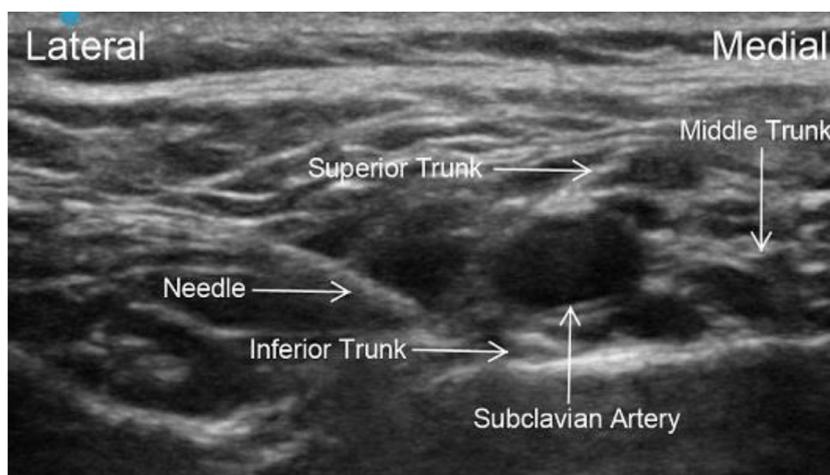


Figure 3 Targeted blocking of inferior trunk.

occur.³ The anomaly recognition allowed us to individually block the trunks and achieve a successful surgical anesthesia (Figs. 2 and 3). In conclusion, anatomical variation of brachial plexus can happen, and use of ultrasound helps identifying them to safely and successfully administer the block.

Conflicts of interest

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