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Prospective Study

Preprocedure ultrasound imaging combined with palpation technique in epidural labor analgesia

Wu JP *et al.* Preprocedure ultrasound imaging

Jian-Ping Wu, Yuan-Zhang Tang, Liang-Liang He, Wen-Xing Zhao, Jian-Xiong An, Jia-Xiang Ni

Abstract

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Based on multiple studies and 2 meta-analyses, 6, 7 **ultrasound** improves accuracy in identifying surface anatomy when compared with **palpation** (moderate quality of evidence) and accurately predicts the depth-to-target distance to reach the epidural or intrathecal space (high quality of evidence). Importantly, **ultrasound** improves the efficacy of neuraxial anesthesia (high quality of evidence) demonstrating a ...

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Palpation method is widely used in clinical practice to identify the puncture site during **combined** spinal-**epidural** (CSE) blocks. Tuffier's line, is an anatomical landmark between two iliac crests (inter-cristal), which is widely used to identify the puncture site during CSE blocks is not always an indicator for specific vertebral level or inter-vertebral space. One hundred and Ten (110 ...

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Reducing the **technical** difficulty of neuraxial blockade is desirable because multiple needle insertion attempts may increase the risk of complications such as **postdural** puncture headache, paresthesiae, and **epidural** hematoma.^{1,9–12}Preprocedural **ultrasonography** of the spine has been shown to facilitate **labor epidural** insertion.^{13,14}However, limited data exist on its utility in the older nonobstetric population.

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