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***Ernesto Delgado Cidranes****Advanced Pain Management Center***Novel approach: Ultrasound 3D/4D-guided procedures in interventional pain management**

Objective: To determine the effectiveness of advanced interventional ultrasound in the management of chronic pain (elastography, 3D/4D volumetric analysis and strain/strain rate).

Methods: We examined 113 patients which were performed advanced ultrasound-guided interventional techniques. High performance ultrasound to assess injuries and anatomy were used; as well as during and after interventional technique in the operating room. Two anesthesiologists with over fifteen years of experience made techniques.

Results: All interventional techniques could be performed on an ultrasound-guided and tested in volumetric studies. The largest group was lumbar facet syndrome with a prevalence of 45%. High specificity and sensitivity was found in our study. Improved visualization x-rays compared to 85% of cases.

Conclusions: Three-dimensional ultrasound is a new and powerful tool that ensures safety and good results in addressing the treatment of pain.

Biography

Ernesto Delgado Cidranes is Spanish Anesthesiologist, Director, CEO, and Editorial Board Member of Journal of Pain Management and Therapy. He is also AIUM Member, Reviewer and Advisor of Journal of Ultrasound in Medicine, American Institute, USA; Chairman of Department of Anesthesia and Pain Medicine, Spanish University Health Ministry; Professor of Advanced Ultrasound and Founder at Advanced Pain Management Center Madrid. He has an integrative and interdisciplinary concept in the treatment of pain.

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