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Novel approach: Ultrasound 3D/4D-guided procedures in interventional pain management

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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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