

Webinar on  
Orthopedics, Osteoporosis, Rheumatology  
& Trauma Care

March 15, 2022 | Webinar

Keynote Forum



## Orthopedics, Osteoporosis, Rheumatology & Trauma Care

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### *Fabrizio Fasoli*

CTO Andrea Alesini Hospital, Italy

#### **Percutaneous lumbar discal nucleoplasty (PLN): Initial experience in 53 patients affected by small/contained herniated disk**

**Statement of the Problem:** The purpose of this study is to evaluate the medium-term (6 months) efficacy of Percutaneous lumbar nucleoplasty (PLN), finding positive outcome correlation with patient's data and MRI morphological variables in patients with chronic lumbar back pain (LBP) with radiculopathy.

**Methodology & Theoretical Orientation:** We included fifty-three patients with chronic LBP, who underwent PLN from October 2020 to February 2021. Clinical data are obtained using VAS indices (Visual analog scale) and ODI (Oswestry Disability Index) pre-and post-procedure at 1-3-6 months. In addition, all patients were advised to follow a rehabilitation program and MRI exams before and after treatment (3 months). Findings: 40/53 patients (75.4%) report positive results after six months; about 9/50 (16.9%) do not report any improvement, while 4/53 (7.5%) reported a clinical worsening. Postoperative at six months VAS and ODI scores showed an overall decrease from baseline of 4.11 points ( $p < 0.001$ ) and 23.45 points ( $p < 0.001$ ) with lower values (VAS -2.10 and ODI -15.11) in those who attended the rehabilitation.

Postoperative MRI controls after three months showed an overall decrease in size of the disc protrusion (-1.4mm,  $p < 0.001$ ) compared to baseline, and an increase in the spinal canal area (SCSA) from baseline ( $+18\text{mm}^2$ ); better values were registered in those patients who underwent the rehabilitation program.

**Conclusion & Significance:** The technique we used provided us with excellent intradiscal maneuverability and precision, with no postoperative complications. Furthermore, PLN has shown excellent short-term clinical outcome results, significantly if associated with conservative rehabilitation techniques. That confirms the need for further studies and a multidisciplinary approach to chronic low back pain.

#### **Biography**

Fabrizio graduated in Medicine and Surgery at the University of La Sapienza in Rome in 199 and obtained the Specialization in Radio diagnostics at the University of Tor Vergata in Rome in 2003. He mainly deals with Kyphoplasty, fracture of the spine, herniated disc, radiofrequency and vertebroplasty. Currently, he holds the role of Interventional Radiologist at the Pio XI Nursing Home in Rome and as Head of the Osteo-Vertebral Interventional Radiology Unit of the CTO Hospital in Rome. Dr. Fasoli, particularly expert in the treatment of vertebral pathologies and in the use of Magnetic Resonance, Computed Tomography and Digital Angiography.

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*Luis Padilla*

Puerta de Hierro Hospital, México

### Hip fracture care- Latin America

Hip fractures, one of the most common geriatric injuries, the incidence continues to rise in Latin America with an aging population, and is associated with adverse patient outcomes and significant costs.

Many factors have a negative impact can be modifiable, like pre and post management, time of surgery, type of fixation. As patients age, the comorbidities increase, complicating the outcomes.

The quality and consistency in the management of patients with hip fractures varies substantially from one country to another, and there is no standarization of the patway of treatment. One of the difficulties is the economical factor. To reduce the negative impacts and burden of disease, we are working to establish, and develop standarized pathway to treat this important disease in Latin America and globally.

#### Biography

Medical School. University Autonoma de Guadalajara, México, 1981-1985. Orthopaedic and Trauma Training. Hospital Especialidades CentroMedicoNacionaldeOccidente. InstitutoMexicano del Seguro Social 1988-1992. Approved by exam Mexican Council of Orthopaedics and Traumatology since 1992. Articular and Arthoscopic training Hospital Regional 46 Instituto Mexicano del Seguro Social 2014-2015. Certificated member CONSEJO MEXICANO DE ORTOPEDIAY TRAUMATOLOGIA. (Mexican Council of Orthopedic and Traumatology). Member of Directive Board of FEMECOT (Mexican Federation of Orthopedic and Traumatology). Since 2016, actually Secretary.

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