

Session: PRP, THE FOUNDATION OF CELL THERAPY – 22nd September 2014

Presentation: **Intradiscal injection of PRP indications, methods and first results**

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INTRODUCTION

Low back pain affects 3 to 4% of the active population every year with high social costs.

Different techniques have been developed for percutaneous treatment of the pathology of intervertebral discs. These are based on: laser, radiofrequency, corticoids or ozone or enzymes (chymopapaine). More recently, micromechanical devices such as the herniatome have been used.

All these techniques are well adapted to pathologies such as disc herniation, nerve root compression, or very important disc bulging.

At the present time percutaneous treatment is the preferred technique because it is very simple (one day surgery), non invasive, with good results on pain (60 to 70%) and without risk (no infection). Contraindications are presence of: migration of the hernia outside of the disc, narrow lumbar canal, substantial loss of height of the disc, vertebral instability, weakness or palsy.

The main problem for the percutaneous treatment is to find a treatment that decreases intradiscal inflammation, and if possible help the disc to regenerate. At this time corticoids are the only possibility.

Based on the good results obtained with PRP in decreasing inflammation and allowing mechanical restoration in all tendinous lesions, we started to use PRP in intra-discal injections after the degenerative part of the disc had been removed by percutaneous approach.

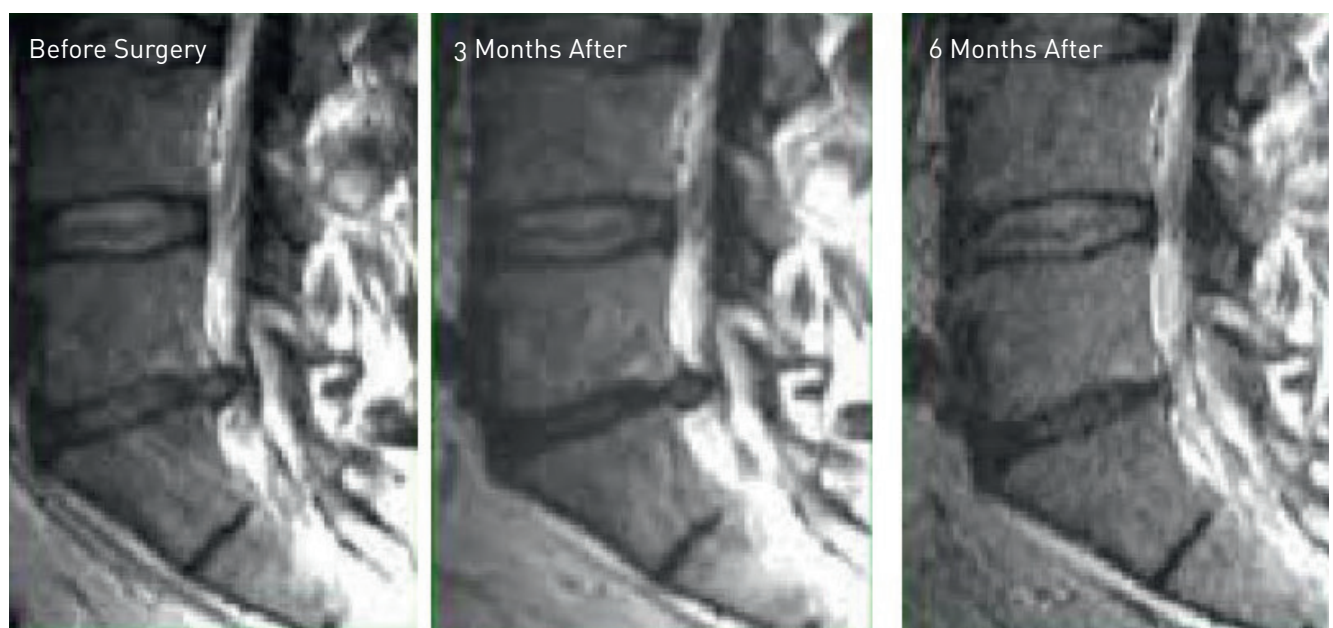
METHODS

Our initial cases with Regen PRP are presented here. The technique is also discussed.

CLINICAL FINDINGS

Figures 1 and 2 illustrate MRI images of our first cases.

Case 1



Case 2



Before surgery

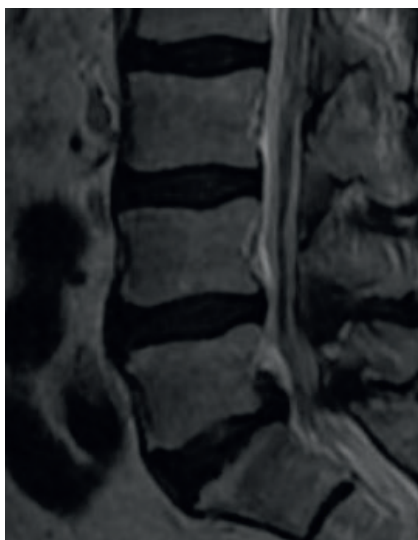
3 months after PRP



CONCLUSION

PRP is a valid therapeutic tool for reducing inflammation. At present, we are using PRP during percutaneous treatment of intervertebral disc pathology after excision of the

herniation. PRP injection before herniation will also be tested in the future.



ACTUAL TREATMENT.
By percutaneous approach
Excision of the herniation
Disparition of inflammation: PRP

FUTURE
Prevention of
degenerative
degradation, before
disc herniation with
injection of PRP for
black disc.

