

## Introduction

Newly developed percutaneous disc decompression device<sup>1</sup>

: navigable wand  
selective Disc Decompression

### Objectives

: to compare the time-dependent efficacy of L'DISQ

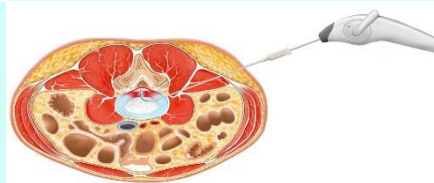
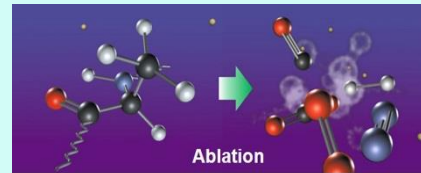
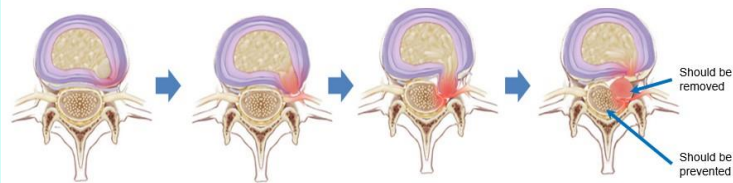


(L'DISQ, U&I Co., Uijeongbu, South Korea)

## Materials and Methods

### Subjects

: One-level lumbar herniated nucleus pulposus (HNP) with radicular pain<sup>1</sup>

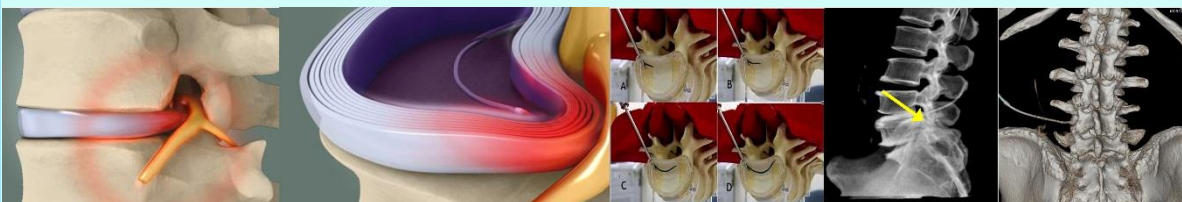


### Procedure<sup>1</sup>

: to access and decompress the HNP selectively  
using intra-operative C-arm fluoroscopic guidance

### Outcome measures of 1-year vs. 2-year

Pain intensity (Visual analogue scale, VAS)  
Measure of disability (Oswestry disability index, ODI & Roland-Morris questionnaire, RM)  
Pain-related quality of life (Short Form-36 version 2, SF-36)  
Passive straight leg raising test (SLR)



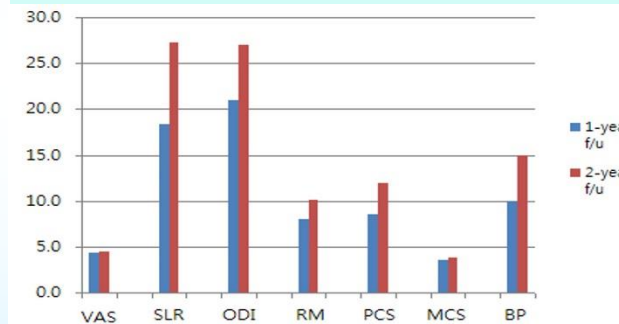
## Results

### Patients Characteristics

: 35 patients, at 1 year  
20 patients, at 2 year

### Outcomes of 1-year vs. 2-year

The 2-year data showed more improvement than 1 year data on every outcome scale  
The VAS fell 4.45 score at 2 years, 4.37 score at 1 year.  
At 2 years the ODI had fallen 27.0%, whereas at 1 years ODI had fallen 21.0%.  
More increased scores of SF-36 (PCS, MCS, BP) on 2 years data than 1 year data.  
No major procedure-related complications were reported



|     | 1-year from initial (n=35) | 2-year from initial (n=20) |
|-----|----------------------------|----------------------------|
| VAS | 4.372                      | 4.450                      |
| SLR | 18.281                     | 27.211                     |
| ODI | 20.963                     | 26.980                     |
| RM  | 7.967                      | 10.150                     |
| PCS | 8.535                      | 11.918                     |
| MCS | 3.555                      | 3.853                      |
| BP  | 9.939                      | 14.889                     |

PCS: physical component summary, MCS: mental component summary, BP: bodily pain.

## Conclusions

After decompression with L'DISQ for patients who are with both low back and radicular pain caused by protruded and extruded discs, *pain and disability reveals more improvement as time passes*

## References

1. Lee SH, Derby R, Sul D, et al. Efficacy of a new navigable percutaneous disc decompression device (L'DISQ) in patients with herniated nucleus pulposus related to radicular pain. Pain Med 2011;12:370-6.