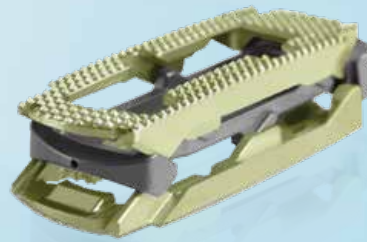


# Minimally Invasive Posterolateral Fusion with RISE<sup>®</sup>-L and Anterior Interbody Fusion with INDEPENDENCE MIS<sup>®</sup> Interbody Spacers

CASE STUDY SERIES

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**PREOPERATIVE RADIOGRAPH**



**PREOPERATIVE T2 SAGITTAL MRI**

Images show severe degenerative disc disease with extensive loss of disc height and modic changes in the L3-L4, L4-L5, and L5-S1 levels.

## Patient History

A 37-year-old woman presented with severe disc degeneration with modic changes and bilateral foraminal stenosis at L3-L4, L4-L5, and L5-S1. She had experienced 2 years of intense chronic back pain (rated 10/10). Her symptoms were longstanding and refractory to many modalities of treatment, prompting her to require large daily doses of narcotic medications. Conservative treatment methods failed, including physical therapy, analgesic medications, and multiple injection-based procedures. She had no prior surgery.



**GLOBUS**  
MEDICAL

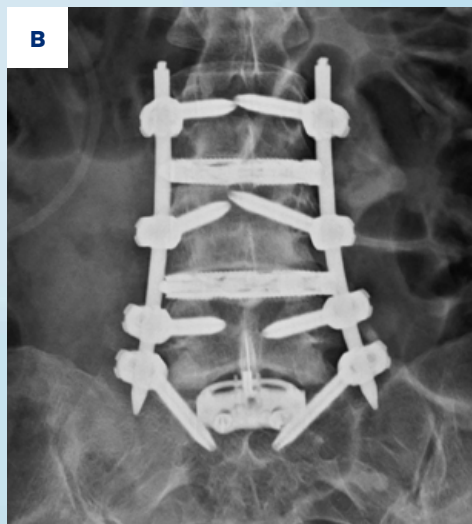
## Surgical Treatment

To address the patient's symptoms, the surgical approach combined posterolateral fusion at L3-L4 and L4-L5 using RISE®-L Expandable Lateral Interbody Spacers, and anterior interbody fusion at L5-S1 using the INDEPENDENCE MIS® Anterior Lumbar Interbody Fusion Spacer, to help achieve indirect foraminal decompression.

**POST-OP LATERAL**



**POST-OP AP**



**POST-OP MRI T2 SAGITTAL**



Postoperative radiographs (A) and (B) at 3 months show restoration of lumbar lordosis and disc height. The postoperative MRI (C) at 3 months shows evidence of indirect decompression.

## Results

The patient was able to walk the morning after surgery. Two days after surgery, the patient was discharged from the hospital with resolution of her chronic back pain. X-rays 3 months after surgery demonstrated significant improvement in sagittal alignment, foraminal height, and lumbar lordosis.

"The maximized indirect decompression of RISE®-L Expandable Lateral Interbody Spacers along with the integrated anchor fixation of the INDEPENDENCE MIS® Anterior Lumbar Interbody Fusion Spacer through a less invasive surgical corridor helped relieve the patient of chronic back pain."

- Haroldo Chagas, MD

### SUMMARY

| Parameters        | Pre-Op | Post-Op |
|-------------------|--------|---------|
| L3-S1 lordosis    | 19.8°  | 30.4°   |
| L3-L4 disc height | 5.1mm  | 13.2mm  |
| L4-L5 disc height | 3.2mm  | 14.7mm  |
| L5-S1 disc height | 3.8mm  | 16.6mm  |

Outside the US Only



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