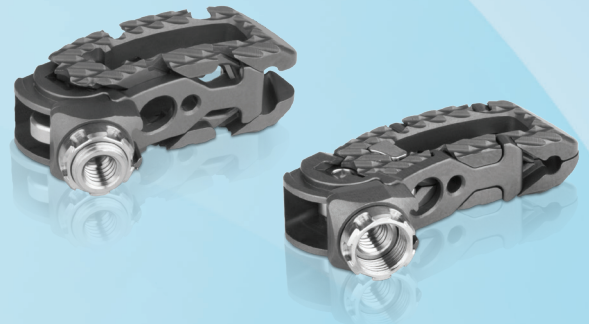


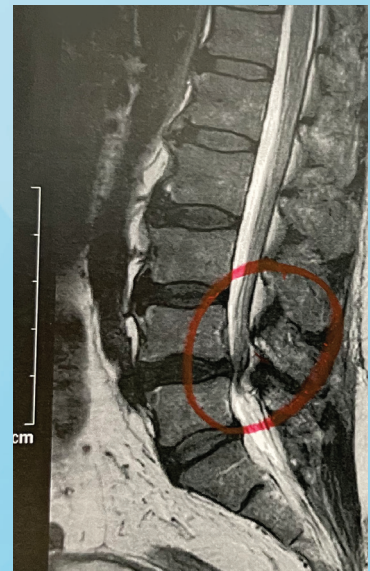
Minimally Invasive TLIF with ALTERA[®] Articulating Expandable TLIF Spacer

CASE STUDY SERIES

Alexandre Fogaça Cristante, MD, PhD
Full Professor
IOT HC FMUSP, AACD, Hospital Sirio Libanes
Sao Paulo, Brazil



PRE-OP RADIOGRAPHS



PRE-OP T2 SAGITTAL MRI

Images show disc degeneration, channel stenosis, and mobile spondylolisthesis at L4-L5.

Patient History

A 69-year-old man presented with loss of disc height due to disc degeneration, channel stenosis, and mobile spondylolisthesis at L4-L5.

In 2011 after a soccer game, he experienced sudden radiating pain in the left leg. He was diagnosed with disc protrusion, and conservative treatment was indicated. Since 2014, he has had low back pain associated with paresthesia in his lower limbs as well as claudication. His symptoms appear to have worsened year after year. He has not experienced sphincter changes or motor deficits.

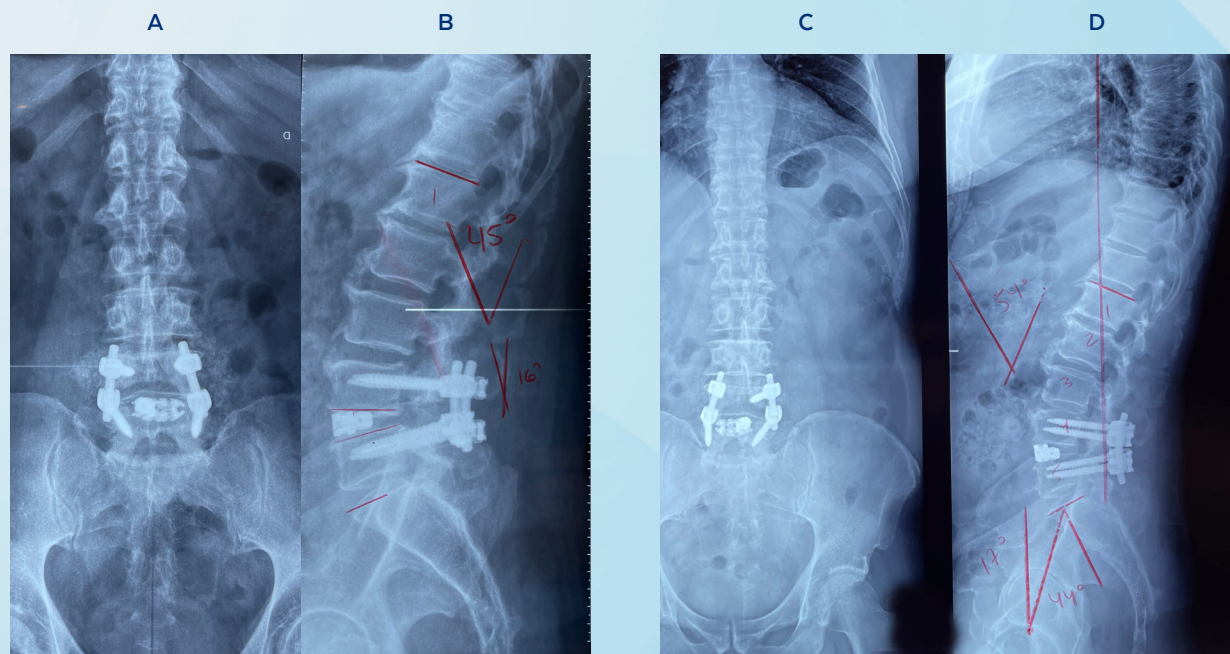


GLOBUS
MEDICAL

Surgical Treatment

Conservative treatment failed to relieve the patient's long-standing symptoms. His chronic back pain was affecting his daily routine and quality of life.

Due to degenerative disc disease, spinal stenosis with symptomatic neuro claudication, and L4-L5 mobile spondylolisthesis, the surgical treatment was determined to be a minimally invasive surgery for transforaminal lumbar interbody fusion (MIS TLIF) at L4-L5 with the ALTERA® Articulating Expandable TLIF Spacer. The surgery was performed through a posterior approach to achieve direct and indirect decompression, as well as arthrodesis.



POST-OP AP

POST-OP LATERAL

POST-OP STANDING X-RAYS OF THE
WHOLE SPINE

Radiographs (A) and (B) at 3 months show restoration of lumbar lordosis and disc height. Standing radiographs (C) and (D) at 3 months show evidence of sagittal and coronal balance.

Results

The patient was able to walk the morning after surgery. Two days after the surgery, he was discharged from the hospital with resolution of his chronic back and leg pain. X-rays 3 months after surgery demonstrated significant improvement in sagittal alignment, foraminal height, and lumbar lordosis. He was also able to exercise and get back to work without any pain medication.

“Performing an MIS TLIF with the ALTERA® Articulating Expandable TLIF Spacer restored sagittal alignment and provided the indirect decompression needed to relieve the patient of chronic back pain.”
- Alexandre Fogaça Cristante, MD, PhD

SUMMARY

Parameters	Pre-Op	Post-Op
Disc Height	8mm	12mm
Segmental Lordosis	2°	16°