

Treatment of L4-L5 Disc Herniation with PrimaLOK™ SP Interspinous Fusion System, PrimaLOK™ FF Facet Fixation System, and TLIF

ABSTRACT:

This case summary describes the effective combination of the PrimaLOK™ SP Interspinous Fusion System, the PrimaLOK™ FF Facet Fixation System, and a Transverse Lumbar Interbody Fusion (TLIF) device to address degenerative disease with minimal tissue disruption.

INTRODUCTION:

Traditional posterior fixation for lumbar fusions has been accomplished with pedicle screw and rod constructs. Spinous process fixation and facet fixation have emerged in the past several years as viable options for providing posterior stabilization without the invasiveness, blood loss, potential for nerve damage, and post-operative morbidities that may be associated with the use of pedicle screws systems. The PrimaLOK family of posterior fixation products incorporates unique patent-pending designs for optimal placement and enhanced fixation to accommodate anatomic variations with minimal tissue disruption.

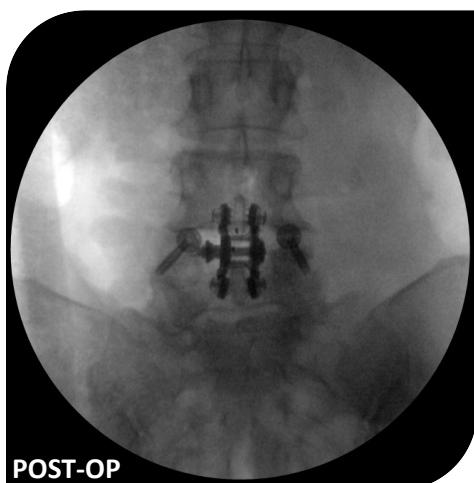
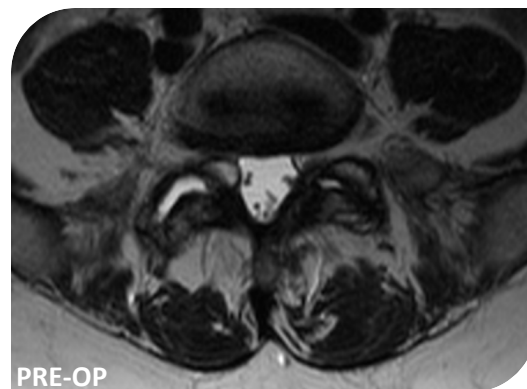
CASE SUMMARY:

This patient is a 55 year-old female with history of back and bilateral leg pain, predominantly root-like into her left leg. She had managed her pain until conservative measures over two year's time were exhausted. Her most recent episode of significant back and leg pain had lasted for four months.

Her examination showed 5/5 strength, normal tone and physiological reflexes at rest. She had lower back tenderness and bilateral paraspinous muscle spasm. Straight leg raising reproduced her back pain at 90 degrees bilaterally.

Prior to this evaluation, the patient had attended physical therapy and underwent a series of epidural injections without lasting benefit. She was maintained on NSAIDS.

Her MRI demonstrated a significant disc herniation, prominent synovial cyst, and signs of degenerative spondylolisthesis at L4-L5. Comparison to previous MRIs demonstrated progression of the disc herniation and Modic changes in the endplates. The cyst was a new finding. She was noted to have evidence of adjacent level degenerative disc disease.



The patient underwent wide decompression with discectomy and excision of the synovial cyst. A TLIF device was placed at L4-L5 and stabilization was accomplished with a single PrimaLOK SP Interspinous Fusion Clamp and bilateral PrimaLOK FF Facet Screws.

Patient experienced immediate benefit. At two month follow-up she is pain free.