

## PROLIFT® EXPANDABLE SPACER SYSTEM CLINICAL AND ECONOMICAL ADVANTAGES

- Dr. Jensen was able to achieve the sagittal correction planned pre-operatively while reducing the need for adjacent level surgery, **greatly reducing** associated **medical costs** for additional hardware and operating room time
- ProLift's low-profile design **reduces endplate damage** compared to static cages, which may contribute to cage migration<sup>1</sup> and possibly **eliminating future revision surgeries** (1.4% - 8.0%)<sup>2</sup>
- 3mm bullet tip is designed for extremely collapsed discs **reducing the need for distraction and potentially reducing OR time and costs**<sup>1</sup>
- ProLift's in-situ expansion **eliminates** the need for **time consuming sequential trialing** reducing instrument passes by up to 83% and **greatly decreasing operating room time**



## CASE EXAMPLE

- PROLIFT EXPANDABLE SPACER SYSTEM
- NAUTILUS® SPINAL SCREW SYSTEM

- DR. WADE JENSEN
- DUNES HOSPITAL, SOUTH DAKOTA

### PATIENT HEALTH & PHYSICAL

- 50 YO male with previous 2-level lumbar fusion at L4/L5 and L5/S1 - 19 years ago
- Failed conservative treatment
- Pain pattern in L4 distribution, left side only
- Imaging studies indicated
  - Lumbar lordosis: 30°
  - Pelvic Incidence within normal range with no pelvic retroversion: 59.5°
  - Pre-op standing lordosis (L1 to S1): 22°
  - PI-LL Mismatch: 37.5° indicating need for sagittal restoration
  - L3/L4 focal lordosis: Pre-op 10°
  - L3/L4 Intradiscal angle: Pre-op 7.6°

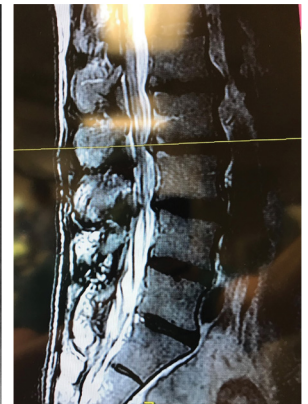
PRE-OP LATERAL X-RAY



PRE-OP LATERAL X-RAY



PRE-OP LATERAL MRI



### DIAGNOSIS

- L3/L4 Disc Herniation with Radiculopathy
- L3/L4 Adjacent Level Disease
- L1 to L3 DDD with Minimal Contribution to Symptoms

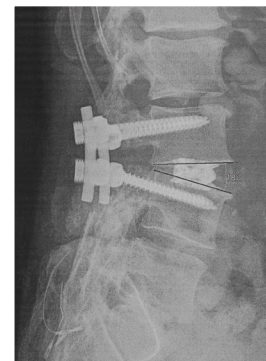
### SURGICAL PLAN

- Laminectomy at L3/L4
- Ponte osteotomy at L3/L4
- Interbody placed at L3/L4

### SURGICAL DETAILS

- Surgical time: 2 hours and 15 minutes
- Disc prep and placement for ProLift: 10 minutes 15° cage expanded to full height
- Nautilus screws implanted in L3/L4 and compression applied across the disc space
  - L3/L4 focal lordosis: Pre-op 10° / Post-op 18.8°
  - L3/L4 Intradiscal angle: Pre-op 7.6° / Post-op 19.6°

POST-OP LATERAL X-RAY



POST-OP LATERAL X-RAY



1. "Posterior Migration of Fusion Cages in Degenerative Lumbar Disease Treatment With Transforaminal Lumbar Interbody Fusion". SPINE Volume 34, Number 1, pp 4-8, Yasuchika Aoki, MD, Masatsune Yamagata, MD, Fumitake Nakijama, MD, Yoshikazu Ikeda, MD, and Kazuhisa Takahashi, MD

2. "Minimally Invasive Transforaminal Lumbar Interbody Fusion Using Expandable Technology: A Clinical and Radiographic Analysis of 50 Patients" Choll W. Kim, Todd M. Doerr, Ingrid Y. Luna, Gita Joshua, Sun Ren Shen, Xin Fu, Ai-Min Wu