

Single-Position Anterior and Oblique Reconstruction with the OneLIF™ Interbody Fusion Device

Multi-level anterior column reconstruction was performed using both ALIF and the SupineATP® Approach at L2-S1.

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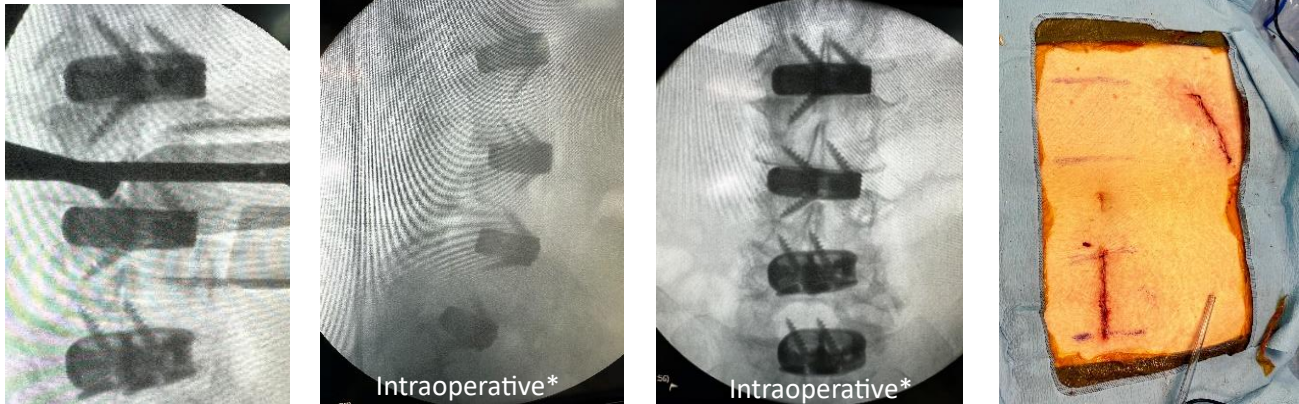
Patient

A 71-year-old woman with a BMI of 31.8, multilevel degenerative disc disease from L2-S1.

Procedure

The patient was positioned supine, and table mounted hip positioners (Skytron, LLC) were placed alongside the patient's right leg and torso beneath the right arm. (Fig. A) The patient was secured and the table tilt needed for the latter approach evaluated (Fig. B) prior to being returned to neutral for prep and drape for both the ALIF and SupineATP approaches. The ALIF procedure was performed with exposure and interbody fusion using the OneLIF implant first at L4/5, and then at L5/S1. The lower lumbar ALIF was closed 75 minutes after incision, and the SupineATP approach begun five minutes later. Prior to incision, a 25-degree tilt was applied to the table to facilitate a shift of the abdominal contents. After reaching the spine and placing retractors, the table was tilted back to zero degrees. The upper lumbar interbody fusions were performed using the same OneLIF implant system, first at L3/4 and then L2/3, and the SupineATP incision closed after ninety minutes. Following patient repositioning, posterior fixation was performed from L2 to S1.






Implants Used

- 4-5:** Med. OneLIF Cage - 7° x 12mm Anterior Height (Four screws placed in anterior holes)
- 5-1:** Med. OneLIF Cage - 13° x 12mm Anterior Height (Four screws placed in anterior holes)
- 3-4:** Med. OneLIF Cage - 7° x 10mm Anterior Height (Three screws placed in oblique holes)
- 2-3:** Med. OneLIF Cage - 7° x 10mm Anterior Height (Three screws placed in oblique holes)

Discussion

Combining the ALIF and SupineATP approaches in this case enabled an expeditious and effective four-level supine anterior reconstruction in a combined time of less than three hours. This replaces the morbidity of a long exposure with two less invasive approaches, without the complexity and extended OR time of a two-position (i.e. supine and lateral) procedure. 

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* Note: images obtained prior to the placement of posterior stabilization. See OneLIF Interbody Fusion Device Indications for Use Statement for the necessary criteria for stand-alone use.

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