

# XLIF DECADE PLATE

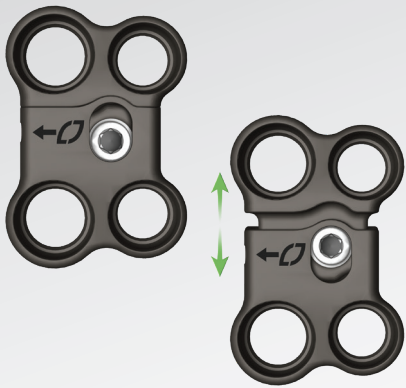
## XLIF Decade Plate



**Strength in Experience**

## XLIF Decade Plate System

**THE XLIF DECADE PLATE SYSTEM** is designed to provide a simple, yet comprehensive, stabilization solution with four points of fixation for enhanced biomechanical rigidity and load sharing. Designed for the XLIF approach and contoured specifically for MaXcess 4 and CoRoent XL family implants, this system represents the pinnacle in single-position, lateral, spinal stabilization and fusion.



### Translating Plate Design

- 2mm of translation built into plate:
- Minimized exposure during insertion
  - Precision-fit to patient anatomy
  - Uniform loading of interbody

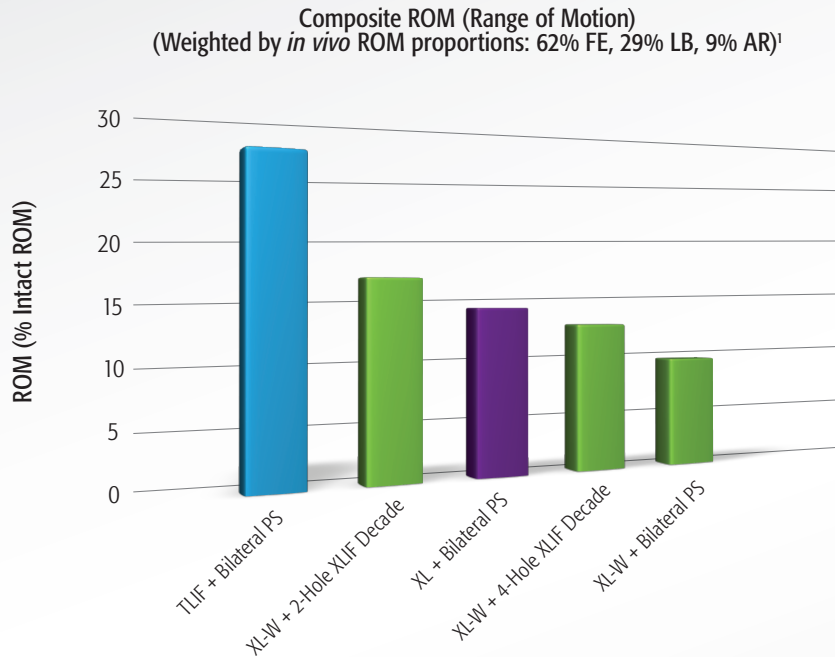
### GEOMETRY OPTIMIZED FOR MAXCESS 4



5.5mm & 6.5mm Large Bolt Options

16° Cone of Angulation

## BIOMECHANICAL STABILITY



### Findings

When compared against previous studies looking at XLIF and TLIF constructs:<sup>2,3</sup>

- CoRoent XL-W with 4-hole XLIF Decade Plate has comparable composite ROM to CoRoent XL + bilateral pedicle screws.
- All tested XLIF Decade Plate constructs exhibited improved composite ROM to the tested TLIF + bilateral pedicle screw construct.

Combined ROM is calculated from the experimentally measured ROM for the fusion construct in each motion axis, weighted by the normal lumbar *in vivo* ROM proportions in graph. This is intended to provide a simplified, single-value measure of the multi-direction stability of a fusion construct.

<sup>1</sup> White AA III, Panjabi MM. *Clinical Biomechanics of the Spine*, 2nd ed. Philadelphia: Lippincott Williams & Wilkins; 1990.

<sup>2</sup> Cappuccino A, Cornwall GB, Turner AW, et al. Biomechanical analysis and review of lateral lumbar interbody fusion constructs. *Spine* 2010;35(26 Suppl):S361-S367.

<sup>3</sup> Pimenta L, Turner AWL, Dooley ZA, et al. Biomechanics of lateral interbody spacers: going wider for going stiffer. *The Scientific World Journal* 2012: 381814.

### 5.0mm & 5.5mm Small Bolt Options

#### 2-HOLE PLATE OPTION

Intended for:

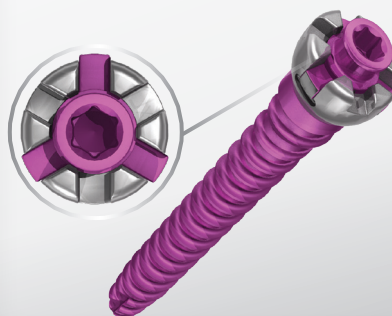
- Challenging anatomy
- Thoracic applications



#### NOVEL FIXATION OPTIONS

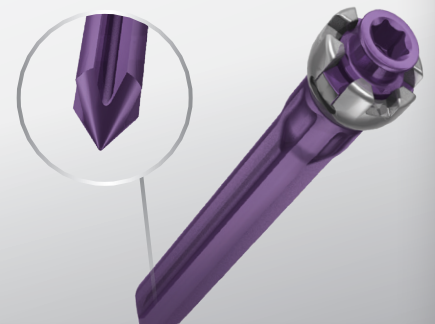
##### Variable to Fixed Bolts

Bolt heads integrate Locking Radial Flange mechanism for ease of use of polyaxial screw (16° cone of angulation) and biomechanical rigidity of a fixed bolt (expanding flanges lock screw into pocket once final tightened).



##### Optional Impactable Bolt

Impactable Bolt is designed to provide quick fixation in place of the small threaded bolt. Cruciform design affords comparable biomechanical rigidity.



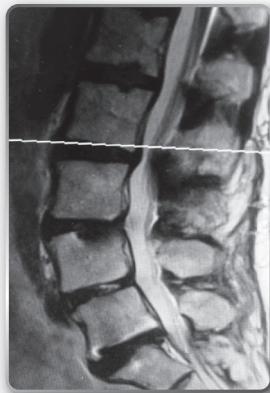
## CASE STUDY: SINGLE APPROACH XLIF FOR ADJACENT-LEVEL DISEASE

### Case Information:

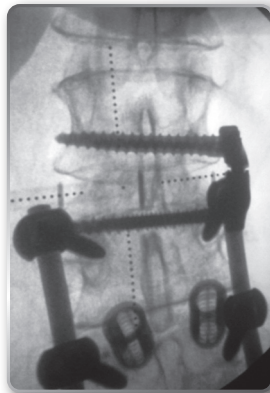
- 81-year-old female with L3-S1 fusion 9 years prior. Mechanical lower back pain with degenerative disc disease adjacent to a prior fusion confirmed by MRI. Small amount of slip demonstrated in flexion/extension.
- L2-L3 XLIF with XLIF Decade plate fixation. Patient discharged same day of surgery.



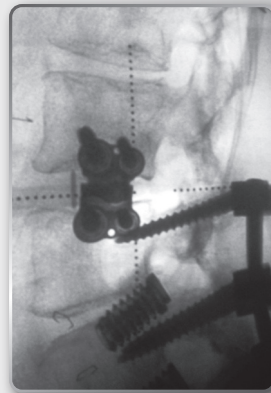
Pre-op



Pre-op



Post-op

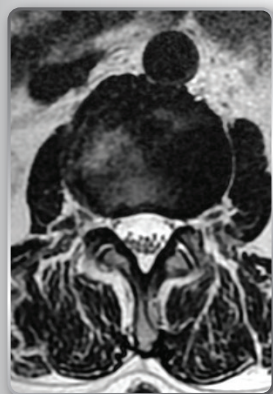


Post-op

## CASE STUDY: SINGLE APPROACH XLIF

### Case Information:

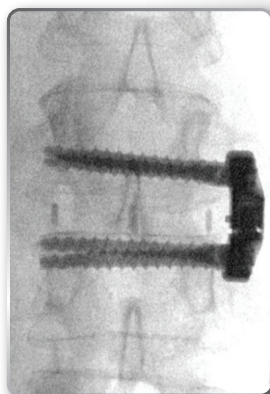
- 65-year-old female. Degenerative disc disease with mechanical low back pain and radiculopathy at L2-L3.
- XLIF with a CoRoent XL-W interbody and XLIF Decade 4-hole plate.



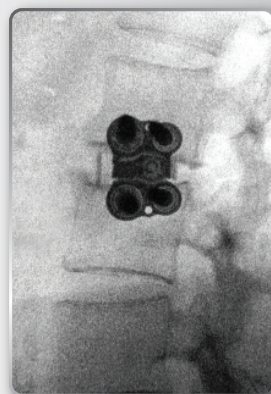
Pre-op



Pre-op



Post-op



Post-op



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