

# UNLEASH™

## Case Review: UNLEASH MIS TLIF: L5-S1 Transforaminal Interbody Fusion with X-PAC Expandable Cage and VIPER PRIME™ SYSTEM

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“There have been so many innovations in spine surgery lately, from surgical approach to implant design. The screwless, footprint-preserving expandable TLIF technology found in X-PAC is one of the most impactful, taking a workhorse surgery and further optimizing it. In this case, I appreciated X-PAC’s robust alignment correction, all titanium construction, and differential lifting force options.”<sup>1</sup>



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### Patient History:

- Severe, debilitating bilateral LE radicular pain
- Unable to ambulate, perform daily activities
- Exhausted physical therapy, medications, injections without lasting relief
- Imaging: spondylotic L5-S1 with bilateral foraminal stenosis

### Surgical Intervention:

- MIS TLIF L5-S1 with Posterolateral Fusion
- X-PAC Expandable Cage Interbody System
- VIPER PRIME™ SYSTEM with pre-contoured rods

### Outcome Data:

- Immediate resolution of LE radicular pain
- Ambulating POD 1, without assist by POD 7
- Excellent restoration of lordosis
- Minimally invasive, EBL 100cc
- Weaning off of narcotic pain medication by week 3
- High patient satisfaction



The **X-PAC Expandable Lumbar Interbody Cage System** is a non-screw based expandable cage that enables up to 5mm of controlled expansion, up to 14.5 degrees of lordosis, and open internal architecture for robust autograft delivery post-expansion.<sup>1</sup>



The **VIPER PRIME™ System** is a technique for percutaneous pedicle screw placement that enables surgeons to target pedicles and insert screws in one single instrument pass.<sup>2</sup>

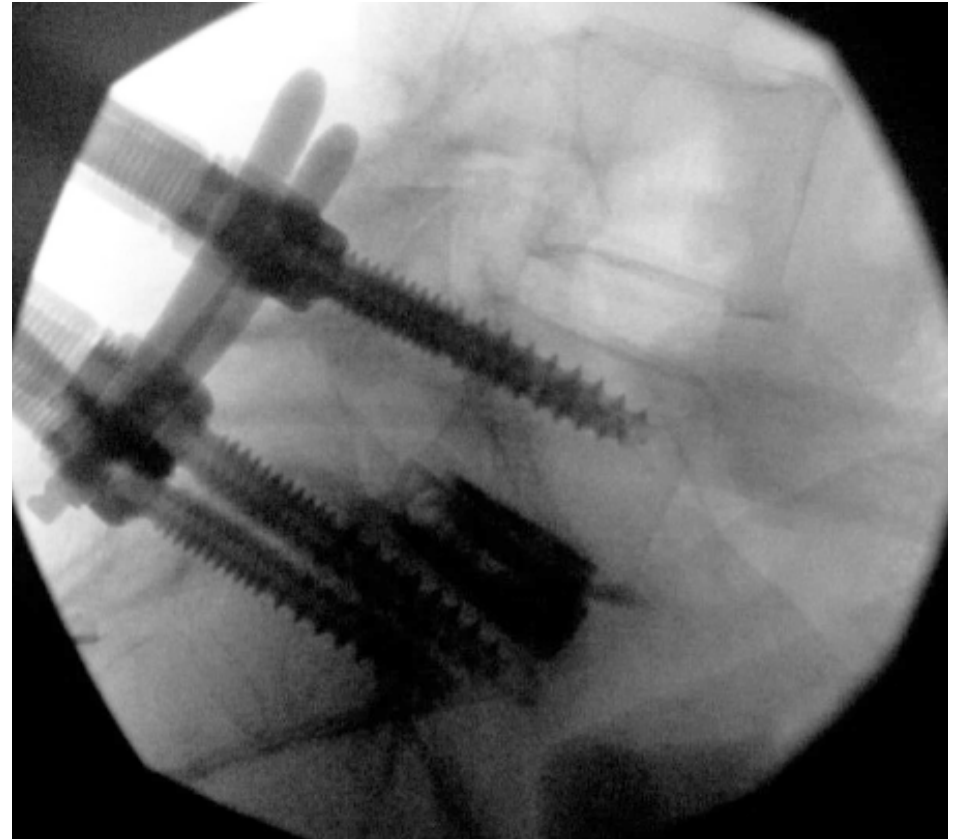
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## Pre-Op Images:



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## Post-Op Images:



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Before using any medical device, review all labeling, including without limitation; the Instructions For Use (IFU), and relevant package inserts with particular attention to the indications, contraindications, warnings and precautions, and steps for use of the device(s).

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### References:

1. DePuy Synthes Spine. X-PAC DHF. 2020. Adaptiv. #103762947
2. DePuy Synthes. VIPER PRIME. Cadaver Time Study. 2017. ADAPTIV #103327910

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