

UNLEASH™

UNLEASHED: Multi-Level Prone Lateral with Navigation featuring the Phantom XL3™ Lateral Retractor and CONDUIT™ Lateral Interbody

Dr. Yi Lu, MD, PhD, FACS, FAANS

Director, Neurosurgical Trauma, Co-Director, Spinal Deformity and Scoliosis Surgery
Assistant Professor of Neurosurgery, Brigham and Women's Hospital | Harvard Medical School

Patient History:

- 72-year-old woman
- Low back pain for 12 years and right leg pain for 3 years
- Required walker to assist with movement & walking
- Found to have lumbar degenerative scoliosis from L2 to L5 and right L3/4 & L4/5 foraminal stenosis

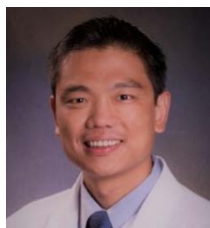
Surgical Intervention: L2-L5 Single Position Prone Lateral Lumbar Interbody Fusion and Posterior Decompression & Fusion utilizing the UNLEASH™ Lateral Solution

- Phantom XL3™ Lateral Lumbar Access System
- CONDUIT™ Lateral Interbody System
- Posterior Fixation: EXPEDIUM® 5.5 Spine System

Outcome Data:

- Patient did very well
- Patient discharged home on POD3 after three-level surgery
- At one-month post-op visit, patient has already weaned off all prescription pain medication and has returned to full normal activity
- Patient stated she is shocked how well she feels after the surgery and “can’t believe” her leg and back feel so good.

“The Phantom XL3™ Lateral Access retractor system and the CONDUIT™ Lateral Interbody System allowed me to incorporate the UNLEASH™ Prone Lateral technique into my practice.”



Dr. Yi Lu, MD, PhD, FACS, FAANS



The Phantom XL3™ Lateral Lumbar Access System transforms the lateral surgical retraction approach by increasing instrumentation stability through the integration of surgical access design elements — all with the focus of elevating the surgeon's workflow performance.



The CONDUIT™ Interbody System is the first 3D printed cage platform with nano-scale features cleared by the FDA. It consists of 3D-printed cellular titanium implants that feature 80% porous macro-, micro-, and nanostructures, designed to mimic cortical and cancellous bone, and facilitate fusion. ^{1,2}

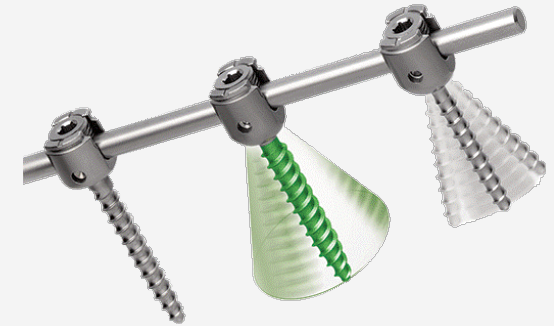
Pre-Op Images:



Lumbar AP X-Ray - demonstrating lumbar degenerative scoliosis from L2 to L5

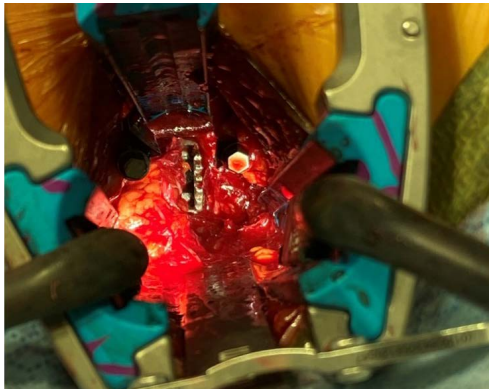


Lumbar MRI - demonstrating lumbar degenerative scoliosis from L2 to L5 and right L3-4 foraminal stenosis due to scoliosis.



The EXPEDIUM® 5.5 System provides technological advancements to treat a range of spinal pathologies. The EXPEDIUM Spine System offers a comprehensive solution for rigid posterior fixation of the thoracolumbar regions of the spine and combines simplicity and versatility allowing the surgeon to treat various patient anatomies.

Intra-Op Images:



Intraoperative view of single position prone lateral procedure, showing the set-up, intra-op navigation and two surgeons performing the lateral and the posterior portions of the surgery simultaneously



Intraoperative closeup view showing the use of the Phantom XL3™ Lateral Retractor and CONDUIT™ Lateral Interbody after cage insertion

Post-Op Image:



Post-op x-ray showed good placement of the large and robust CONDUIT™ Lateral Interbody Cages

Dr. Yi Lu is presenting on behalf of DePuy Synthes. The presentation reflects the opinions of the individual presenter, and the steps described may not encompass the complete steps of the procedure. Additionally, other surgeons may prefer different techniques, approaches, etc., as individual surgeon experience in his/her clinical practice, as well as patient needs, may dictate variation in procedure steps. Accordingly, results from any case studies reported in this presentation may not be predictive of results in other cases. 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).

Phantom XL3 is a registered trademark of TeDan Surgical Innovations, Inc. The third party trademarks used herein are the trademarks of their respective owners.

1. DePuy Synthes. SEM Report. 1/28/2019. ADAPTIV #103546250
2. DePuy Synthes. VAL2016-043 Strut diameter summary rev 0. 11/20/2017.

