

Anterior-Lateral LumbarBox

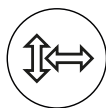
Anterior, Oblique and Lateral Approaches to the Lumbar Spine

From L2 to S1

Pathologies

Multilevel Discopathy.

Features



Dual Surgical Positions

The simulator is designed to simulate both supine and lateral positions, facilitating the simulation of all oblique and lateral anterior approaches to the lumbosacral spine.



Mobile X-Ray

Get the Neurosurgery App and simulate fluoroscopy using Mobile X-Ray technology to set landmarks and plan your surgical approach.



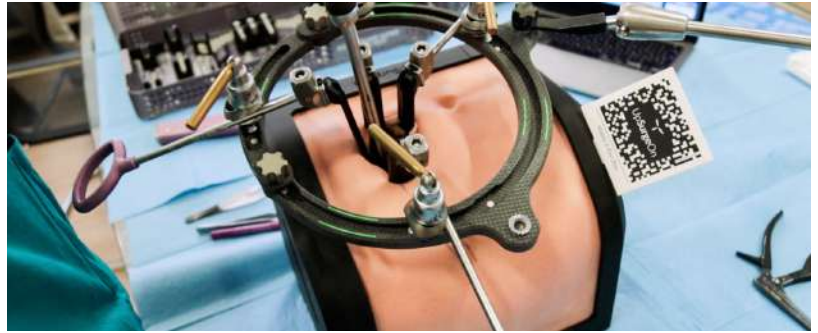
Standard X-Ray and CT Scan

The simulator is compatible with standard X-Ray, fluoroscopy and CT. Scan it and visualize the positioning of the fixation implants.

The highest level of detail

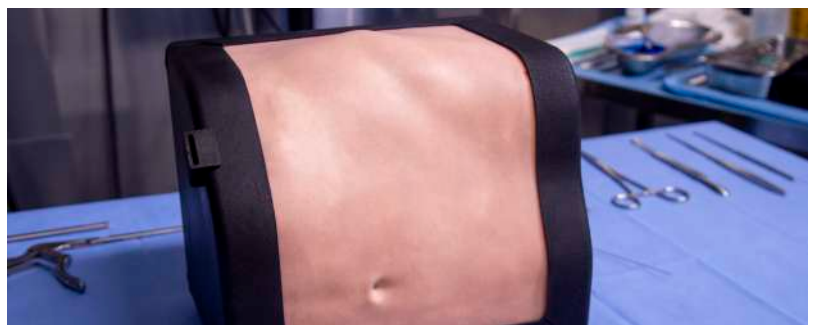
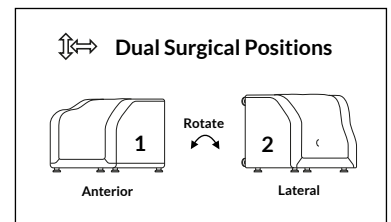
PROCEDURES:

- **ALIF** (Anterior Lumbar Interbody Fusion)
- **OLIF** (Oblique Lumbar Interbody Fusion)
- **XLIF** (Extreme Lumbar Interbody Fusion, AKA LLIF, Lateral Lumbar Interbody Fusion)



SURGICAL CAPABILITIES:

- **Skin incision**
Hyperrealistic skin with bleeding upon incision, featuring multiple layers of suturable epidermis and subcutaneous tissue
- **Layer by layer soft tissue dissection**
Blunt dissection to expose subcutaneous planes and reveal the abdominal muscle
- **Fascia incision**
Hyperrealistic muscle/fascia layer to be opened with scissors and dissected in the layer beneath the muscle
- **Abdominal muscle dissection**
Hyperrealistic muscle layer to be dissected with scissors or blunt dissection
- **Mobilisation of Peritoneum**
In the ALIF, to expose the retroperitoneal space
- **Psoas dissection**
In the XLIF, to access the discs
- **Discectomies 4 (L2-S1)**
- **Multiple discectomies**
Nerve root decompression through discectomies feasible from L2 to S1 (4 discectomies, L2-3, L3-4, L4-5, L5-S1)
- **Multiple corpectomies**
Total corpectomy feasible from L2 to L5 (5 corpectomies)
- **Instrumented surgery**
Placement of any artificial disc and body, according to the above-mentioned levels (disc cage, somatic cage, anterior plates, somatic screws)
- **Radiology**
Simulator compatible with Fluoroscopy and CT scan for visualizing the vertebrae



Anatomy

ANATOMY INCLUDED IN THIS APPROACH:

- Skin
- L2 to S1 vertebrae
- L2 to S1 Discs
- Peritoneal sac
- Abdominal Muscles
- Psoas Muscle
- Iliac crest
- Genitofemoral nerve
- Discs
- Arteries
- Veins
- Floating rib
- Spinal Cord
- Inguinal ligament
- Ureter

Neurosurgery App

MOBILE X-RAY

For the first time, surgical fluoroscopy is accessible through a user-friendly app, marking a groundbreaking shift in training and courses. Download the app now and make use of the tools integrated with the simulator.

Neurosurgery App



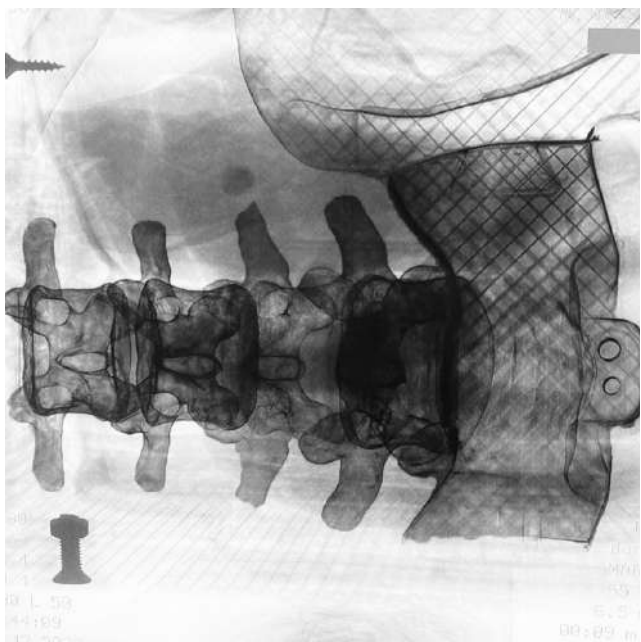
Frame the QR Code



Standard Imaging

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants*.

*The box is not designed for MRI; do not subject it to MRI scans as it contains metallic components.



What is included

- Box
- AR Marker
- Mobile X-Ray tools
- Mobile Navigation tools
- Lubricant

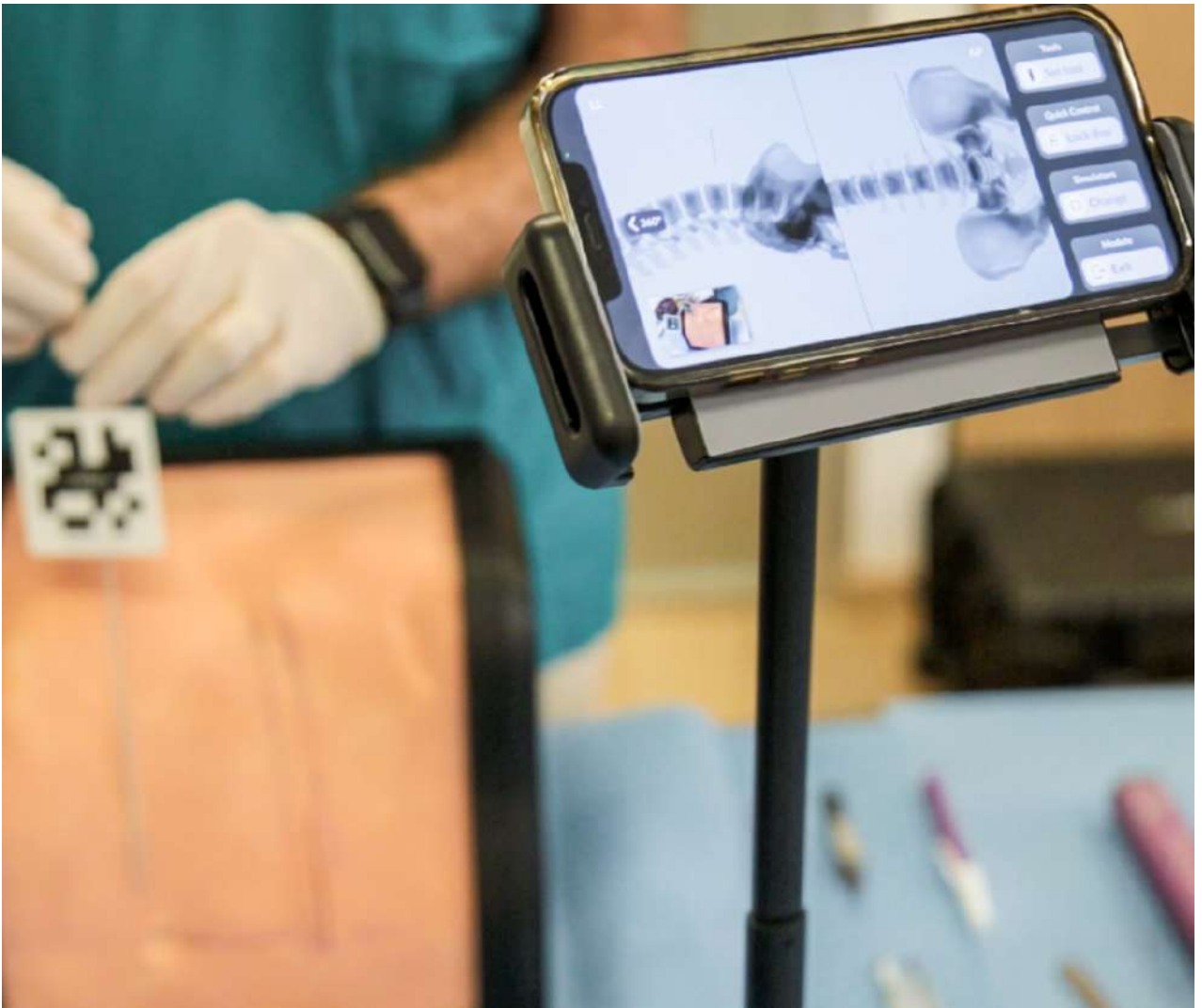


General warnings

**THIS PRODUCT CONTAINS METALS:
DO NOT PUT IT INTO A MAGNETIC RESONANCE!**

- Adult assembly required
- Never leave children unattended with the box
- Never put hot liquids above the tools
- Never put chemical substances above the tools
- Wash with water, do not use chemical products
- Keep the product in a dry environment
- Keep the product away from any heat source
- Pay attention to your eyes when using

All materials used to produce UpSurgeOn products are certified, safe and non-toxic. Use of gloves, protective glasses and mask is always suggested to maintain the cleanliness of the simulator and the tools, and as a standard practice during each simulation. Wearing safety equipment is mandatory in the use of drilling simulation.



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UpSurgeOn is a hi-tech company specialized in psychomotor skill augmentation in microsurgeries through the use of bleeding-edge virtual and physical simulation technologies.



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