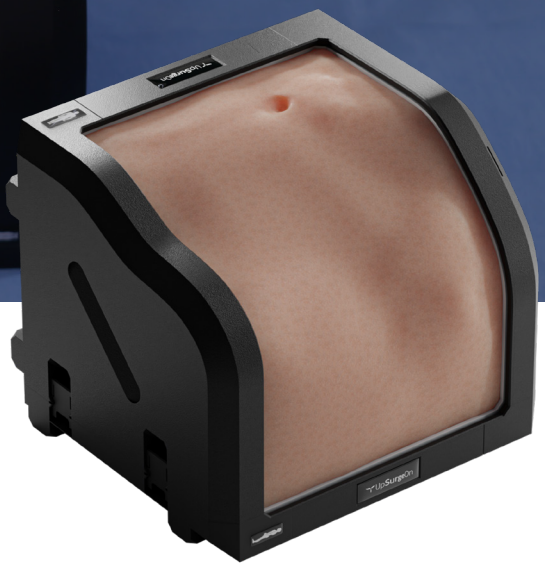
Spine Series

UpSurgeOn

Anterior-Lateral LumbarBox

Anterior, Oblique and Lateral Approaches to the Lumbar Spine

From L2 to S1



Procedures

Advanced training for anterior and lateral lumbar approaches in multilevel degenerative disc disease and complex spine surgery.

Features

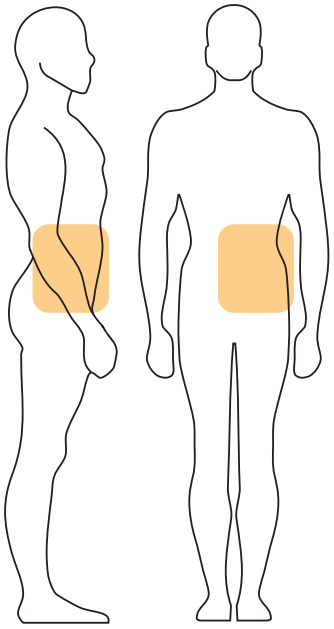
Modularity
5 Operable Levels in a single simulator
Two disposable levels: Skin Level + Spine Level

Surgical Realism
With this simulator, we have achieved the highest level of realism ever seen in spine surgery simulation.

Dual Surgical Positions
The simulator is designed to simulate both anterior and lateral positions, facilitating the simulation of all oblique and lateral anterior approaches to the lumbar spine.

Mobile X-ray*
Get the Neurosurgery App and simulate fluoroscopy using Mobile X-ray technology to set landmarks and plan your surgical approach
**Attention: Mobile X-ray module works on Apple devices only.*

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.



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Datasheet Anterior-Lateral LumbarBox 2026 Version 3.7

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How it is composed

Patient Positioning Tag
Reference to locate patient's head and feet

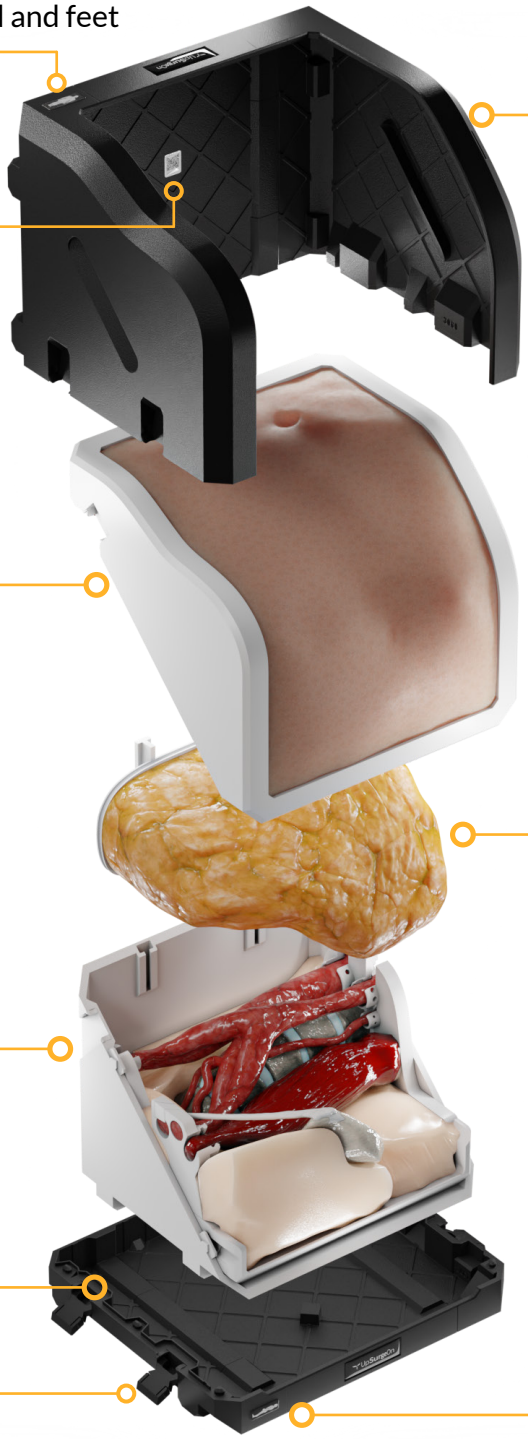
User Guide QR Code

Skin Level
Disposable

Spine Level
Disposable

Black Base
Reusable

Closure System



Black Cap
Reusable

Peritoneal Sac
Reusable

Patient Positioning Tag
Reference point to position the Skin Level correctly

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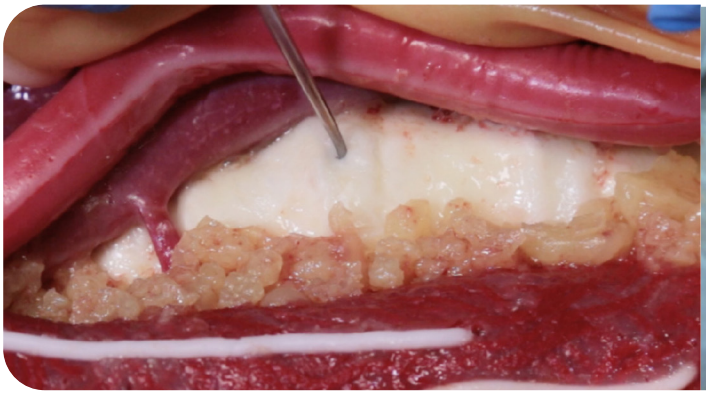
Anatomy & Surgical realism

Skin Level

- Skin
- Subcutaneous fat
- Superficial fascia
- Muscles
- Transversalis fascia
- Extraperitoneal fat

Spine Level

- L2 to S1 Vertebrae
- L2 to S1 Discs
- Aorta
- Inferior Vena Cava
- Psoas Muscle
- Iliac Crest
- Inguinal Ligament



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The highest level of detail

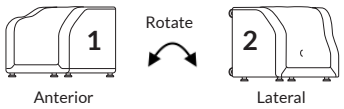
PROCEDURES:

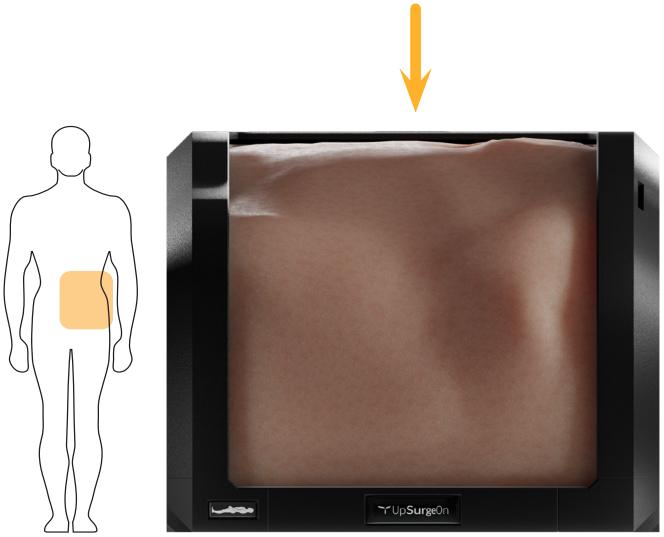
- ALIF (Anterior Lumbar Interbody Fusion)
- OLIF (Oblique Lumbar Interbody Fusion)
- XLIF (Extreme Lumbar Interbody Fusion, AKA LLIF, Lateral Lumbar Interbody Fusion)

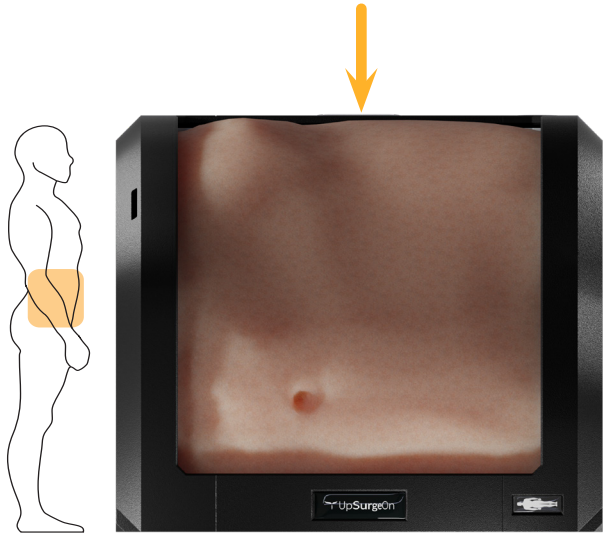
SURGICAL CAPABILITIES:

- **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 ALIF, to expose the retroperitoneal space
- **Psoas dissection**
  In XLIF, to access the discs
- **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)
- **Radiology**
  Simulator compatible with Fluoroscopy and CT scan for visualizing the vertebrae

Dual Surgical Positions







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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.

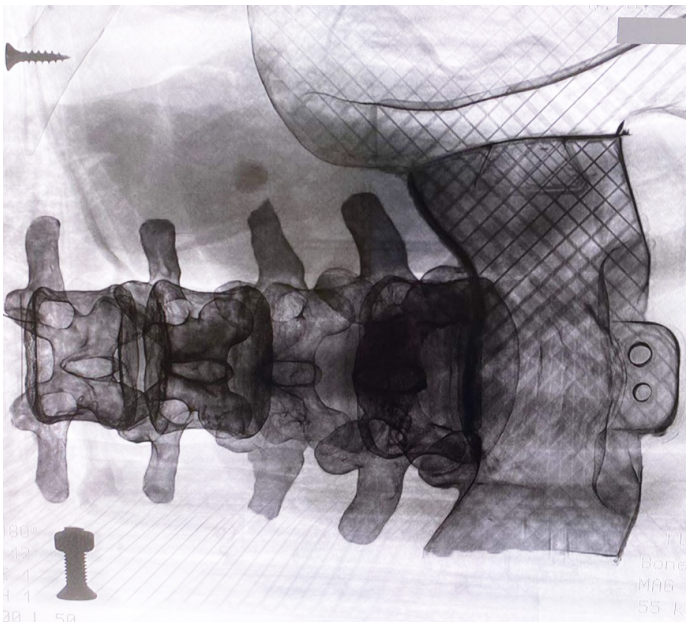
Neurosurgery App + Scan the QR Code

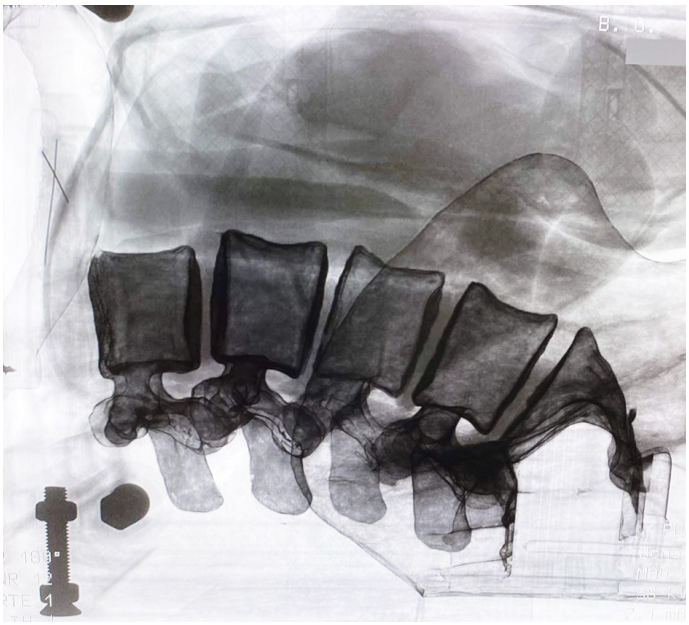
**Attention: Mobile X-ray module works on Apple devices only.*

Standard imaging

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

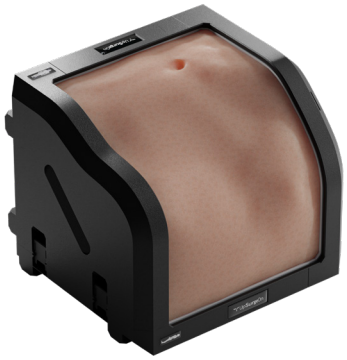
**The box is not designed for MRI; do not subject it to MRI scans as it contains metallic components.*





What is included

- 1x Workstation:
  Black Base, Black Cap, Peritoneal Sac,
  2x K-wire, Mobile X-Ray Kit,
  Quick Start Guide, Lubricant
- 1x Skin Level
- 1x Spine Level



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General warnings

The use of gloves, protective glasses and mask is mandatory to protect you from potential injury while drilling and helps maintain the cleanliness of the simulator and tools.

WEAR GLOVES | WEAR GLASSES | WEAR MASK

- Adult assembly required
- Never leave children unattended with the simulator
- Never put hot liquids on the tools
- Never put chemical substances on the tools
- Wash with water, do not use chemical products
- Keep the product in a dry environment
- Pay attention and wear eye protection when using

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

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