UpSurgeOn

Posterior LumbarBox

5 Operable Discectomies
From L1 to S1 - Left/Right

Pathologies

3 Paramedian Herniations
2 Foraminal Herniations
2 Extraforaminal Herniations
1 Central Herniation

Features

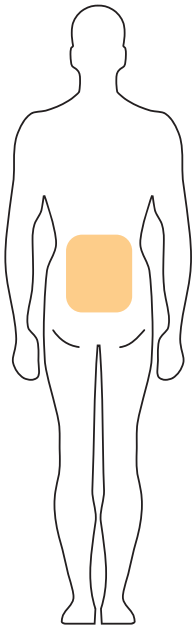
Modularity
5 Operable Discectomies in a single simulator
Two disposable levels: Skin Level + Spine Level

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

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.

Compatible with Standard Navigation*
Upload the CT scan on the navigator and start navigating the simulator.
**Contact us at support@upsurgeon.com to check the compatibility of your Navigation technology.*



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How it is composed

Skin Level (Open)
Reusable

Skin Level (MIS)
Disposable

DRB Support Attachment

Spine Level
Disposable

DRB Support Attachment Cover

Black Base
Reusable

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The highest level of detail

PROCEDURES:

- **PLIF** (Posterior Lumbar Interbody Fusion)
- **TLIF** (Transforaminal Lumbar Interbody Fusion)
- **Open and percutaneous approaches** (open reusable Skin Level and MIS disposable Skin Level respectively)

SURGICAL CAPABILITIES:

- Laminectomies and flavectomies from L1 to L5
- Multiple discectomies
- Nerve root decompression through discectomies feasible from L1 to S1 (5 discectomies, L1-2, L2-3, L3-4, L4-5, L5-S1)
- Multiple corpectomies
  Total corpectomy feasible from L1 to L5 (5 corpectomies)
- Instrumented surgery
  Correct placement of pedicle screws.

PATHOLOGIES:

Left Side

L1-2 | Paramedian Herniation
L3-4 | Foraminal Herniation
L5-S1 | Foraminal Herniation

Right Side

L1-2 | Extraforaminal Herniation
L3-4 | Paramedian Herniation
L4-5 | Extraforaminal Herniation
L5-S1 | Paramedian Herniation

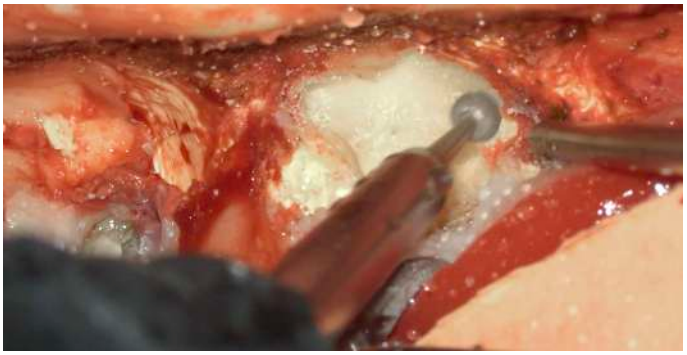
L2-3 | Central Herniation

Surgical realism

- Ultra-accurate anatomy
- Hyper-realistic materials

ANATOMY INCLUDED IN THIS APPROACH:

- Skin
- Paravertebral muscles
- Ligamentum flavum
- PLL (Posterior Longitudinal Ligament)
- Vertebrae from L1 to S1
- Discs from L1-L2 to L5-S1 (5 discs)
- Spinal cord
- Nerve roots
- Peridural fat



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Mobile X-ray

Get the Neurosurgery App* to simulate fluoroscopy with Mobile X-ray Technology to set your trajectory and navigate your instrument in real time.

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

Neurosurgery App*

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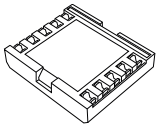
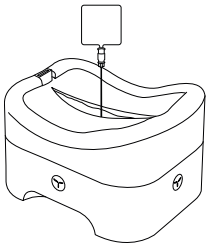
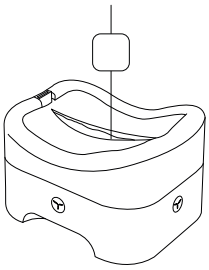


Mobile X-ray Kit

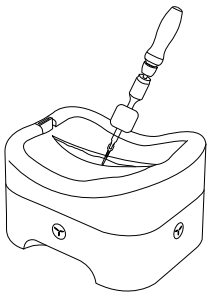
Spine needle



K-wire



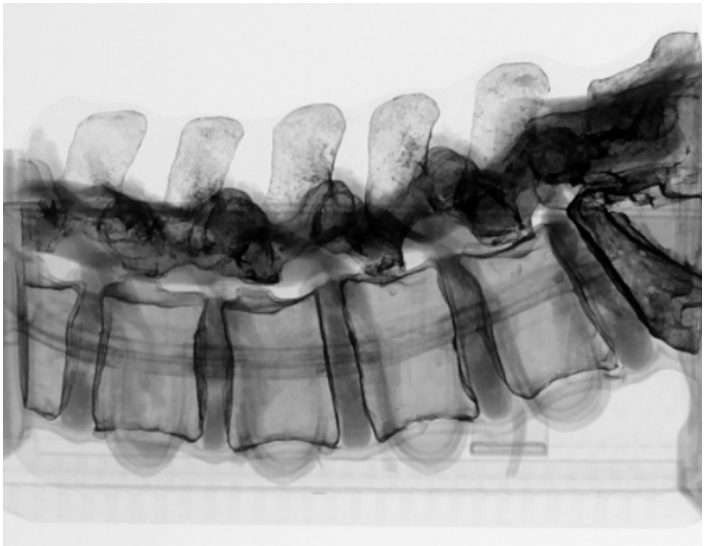
Custom instrument



Standard imaging

Scan the simulator 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.



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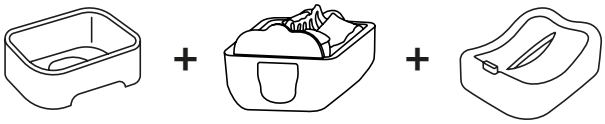
Navigation

Upload the CT scan on the navigator and start navigating the simulator.

*Check the compatibility of your Navigation System.
Please contact us for a complete list of compatible systems and technologies.

Disposable parts

Designed to specifically mimic the properties of human tissues, such as softness, elasticity, and texture.



Black Base
Reusable

Spine Level
Disposable

Skin Level
Disposable or Reusable

What is included

- 1x Workstation:
  Black Base, DRB Support Attachment Cover, Mobile X-ray Kit, DRB Support Attachment, USB with CT for Navigation, Lubricant
- 1x Skin Level (Open or MIS)
- 1x Spine Level

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General warnings

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

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

Go to website www.upsurgeon.com

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