UpSurgeOn

Making surgical excellence universally accessible

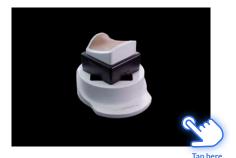
Spine Series

Surgical Training Technologies for Spine Surgery

Interactive Brochure 2024

Life-like as never before!

The modularity and compactness of this series enable advanced cadaver-free training in any setting, with optimized costs.



3

7

11

Anterior CervicalBox Multilevel Spondylotic Myelopathy and Radiculopathy | C3 - C7



Posterior LumbarBox Posterior Approaches to the Lumbar Spine | **L1 - S1**



Anterior-Lateral LumbarBox

Anterior, oblique and lateral approaches to the Lumbar Spine **L2 - S1**





Posterior CervicalBox5Multilevel Posterior Cervical
Compression | C2 - C6



ThoracolumbarBox Posterior Approaches to the Thoracolumbar Spine | **T8 - S1** 9



Endoscopic LumbarBox 12 Endoscopic Approaches to the Lumbar Spine | L1 - S1

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Anterior CervicalBox

Multilevel Spondylotic Myelopathy and Radiculopathy | C3-C7

- Disposable Parts
- Hyperrealism
- Standard X-Ray and CT Scan
- 🗑 🖗 Augmented Reality App
 - 🔊 Mobile X-Ray

What you can do

Skin incision

Layer by layer soft tissue dissection

Platysma incision

Detection of carotid artery

Multilevel decompressions for spondylotic myelopathy

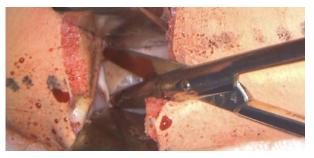
Multiple discectomies and corpectomies

Any kind of anterior cervical spine fixation

Fluoroscopy and CT scans

Hyperrealism

Experience unparalleled surgical realism with Anterior CervicalBox. From the moment you make your incision to the intricate maneuvers around delicate structures, every aspect is meticulously crafted to mirror the complexities of real surgery.



Click here to download the Datasheets

Augmented Reality App

Get the Neurosurgery App to explore cases, navigate 3D models, and utilize Augmented Reality on the Box to strategize your procedure.



Standard Imaging

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

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

Use of the tools integrated with the simulator.



*Attention: Mobile X-Ray module works on Apple Devices only.



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3 Spine Series

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







Spine Level Disposable



Composition of Anterior CervicalBox



Bleeding skin and subcutaneous tissue Platysma Connective tissues Sternocleidomastoid muscle Trachea and esophagus (medial mass) Carotid Artery

Spine Level | Disposable

Prevertebral fascia Paravertebral muscles Vertebral bodies and discs from C3 to C7 Spinal cord Peridural fat

Box | Reusable







Posterior CervicalBox

Multilevel Posterior Cervical Compression | C2-C6

- Disposable Parts
- Hyperrealism
- Mobile X-Ray
- Standard X-Ray and CT Scan
 - ⁴ Standard Navigation

What you can do

Multilevel decompressions for spondylotic myelopathy

Laminectomies

Flavectomies

Laminoplasty

Any kind of posterior cervical spine fixation

Fluoroscopy and CT scans



Click here to download the Datasheets

Navigation*

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



*Contact us at **support@upsurgeon.com** to check the compatibility of your Navigation technology.

Standard Imaging

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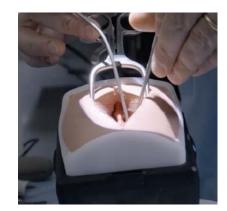




Box Reusable

Spine Level Disposable





Composition of Posterior CervicalBox

Skin Level | Reusable

Dissected Skin and subcutaneous tissue Dissected paravertebral muscles

Spine Level | Disposable

Ligaments Vertebras from C2 to C6 Spinal cord Peridural fat Vertebral arteries

Box | Reusable







Posterior LumbarBox

10 Operable Levels | L1-S1

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

Disposable Parts

Hyperrealism

Mobile X-Ray

Standard X-Ray and CT Scan

K Standard Navigation

What you can do

Laminectomies

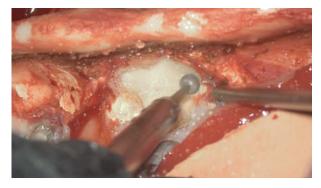
Flavectomies

Discectomies

Corpectomies

Any kind of posterior lumbar spine fixation

Fluoroscopy and CT scans

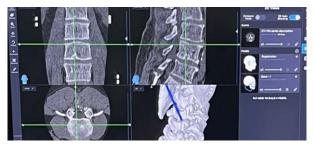




Click here to download the Datasheets

Navigation*

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Standard Imaging

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Mobile X-Ray

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Use of the tools integrated with the simulator.



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



Box

Reusable



Spine Level Disposable

Skin Level Reusable

Open and Minimally Invasive Skin Level





Skin Level | Reusable

Dissected Skin and subcutaneous tissue (Open & MIS Skin) Dissected paravertebral muscles

Spine Level | Disposable

L1-2 Left | Paramedian Herniation L1-2 Right | Extraforaminal Herniation L2-3 | Central Herniation L3-4 Left |Foraminal Herniation L3-4 Right | Paramedian Herniation L4-5 Right | Extraforaminal Herniation L4-5 | Canal Stenosis L5-S1 Left | Foraminal Herniation L5-S1 Right | Paramedian Herniation

Base | Reusable











NEW

ThoracolumbarBox

10 operable levels | T8-S1

- 🗶 Disposable Parts
- Hyperrealistic
- 🕑 Mobile X-Ray
- 🗿 Standard X-Ray and CT Scan
- $^{
 mathcal{k}}$ Standard Navigation

What you can do

Posterior decompression and fixation of the lower thoracic and lumbosacral segments

PLIF (Posterior Lumbar Interbody Fusion)

TLIF (Transforaminal Lateral Interbody Fusion)

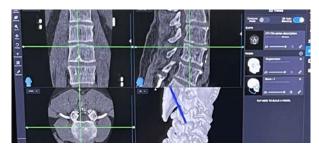
Open and **MIS** Approaches (using open Reusable Skin Level and MIS Disposable Skin Level, respectively)



<u>Click here to download the **Datasheets**</u>

Navigation*

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



*Contact us at **<u>support@upsurgeon.com</u>** to check the compatibility of your Navigation technology.

Standard Imaging

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

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

Use of the tools integrated with the simulator.



*Attention: Mobile X-Ray module works on Apple Devices only.

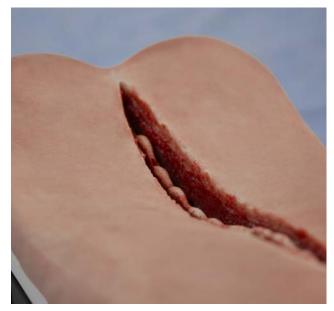


9 Spine Series



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





Composition of ThoracolumbarBox

Skin Level | *Reusable/Disposable*

Reusable: Open Skin (Dissected Skin and subcutaneous tissue) Disposable: Closed Skin - MIS (Minimally invasive surgery)



Spine Level | Disposable

Vertebras from T8 to S1 Ligaments Cauda equina and lumbar nerve roots Peridural fat Lumbar discs with herniations











Anterior-Lateral LumbarBox

Multilevel Discopathy | L2-S1

३ Dual Surgical Position

Standard X-Ray and CT Scan

🔄 Mobile X-Ray

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.

What you can do

ALIF (Anterior Lumbar Interbody Fusion)

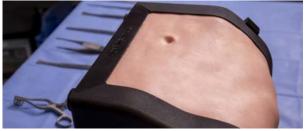
OLIF (Oblique Lumbar Interbody Fusion)

XLIF (Extreme Lumbar Interbody Fusion, aka LLIF, Lateral Lumbar Interbody Fusion)

Dual Surgical Position

Anterior



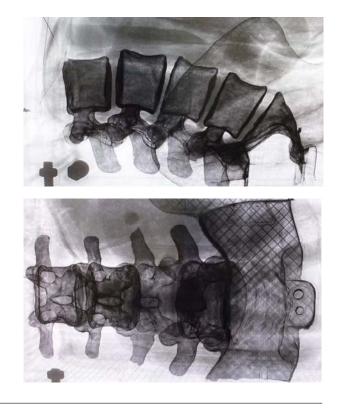




Click here to download the Datasheets

Standard Imaging

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



Mobile X-Ray

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Download the App

Use of the tools integrated with the simulator.

 $\ ^*\!Attention: Mobile X-Ray \ module \ works \ on \ Apple \ Devices \ only.$





NEW

Endoscopic LumbarBox

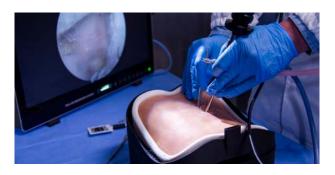
10 Operable Levels | L1-S1 Left/Right

2 Sets of Pathologies

- 🖉 Disposable Parts
- Hyperrealistic
- le Smart Water Management
- Mobile X-Ray
- Standard X-Ray and CT Scan*

What you can do

PELD (Percutaneous Endoscopic Lumbar Discectomy)TELD (Transforaminal Endoscopic Lumbar Discectomy)Monoportal and biportal procedures



Smart Water Management

The simulator is equipped with an internal water drainage and outflow system, facilitating the management of high endoscopic flows anywhere and preventing any leakage during surgical procedures.



Click here to download the Datasheets

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

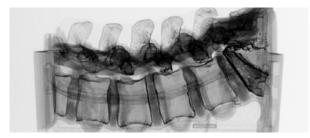
Use of the tools integrated with the simulator.



*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. *Feature available upon request.







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



Collection Box

Reusable



Frame Reusable

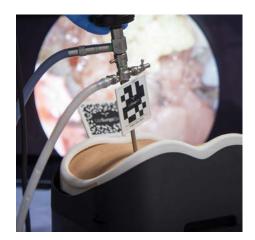




Disposable



Skin Level Disposable



Composition of Endoscopic LumbarBox

Skin Level | Disposable

The most durable Skin ever Reusable multiple times

Spine Level | Disposable

Pathology Set 1:

L1-2 Left | Paramedian Herniation L1-2 Right | Extraforaminal Herniation L2-3 | Central Herniation L3-4 Left |Foraminal Herniation L3-4 Right | Paramedian Herniation L4-5 Right | Extraforaminal Herniation L4-5 | Canal Stenosis L5-S1 Left | Foraminal Herniation

Frame Reusable

The frame with the drainage grid for the Water Management System

Collection Base | Reusable

Water collection base

Pathology Set 2:

- L1-L2 | Bilateral paramedian herniation
- L2-L3 | Bilateral paramedian herniation
- L3-L4 | Bilateral paramedian herniation
- L4-L5 | Bilateral paramedian herniation
- L5-S1 | Bilateral paramedian herniation

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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.





