Spine Series

UpSurgeOn

# ThoracolumbarBox

10 Operable Levels
From T8 to S1

## Procedures

All-in-one training: Laminectomies, Flavectomies and Decompressions from T8 to S1

## Features

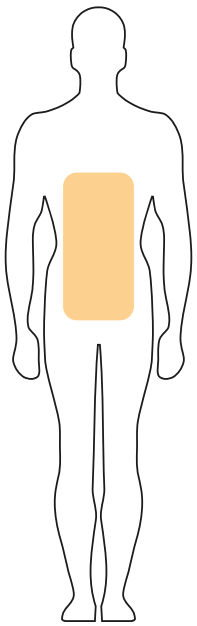
### Modularity
10 Operable Levels in a single simulator
Two disposable levels: Skin Level (Open and MIS version) + Spine Level

### 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.
**Feature available upon request*

### Compatible with Standard 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.*

### Disposable Parts
Disposable levels are readily available, designed to be replaced for continual, repeatable, and sustainable enhancement of your skills.

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# How it is composed

**Skin Level (Open)**
Reusable

**Skin Level (MIS)**
Disposable

**Patient Positioning Tag**
Reference point to position the Skin Level correctly

ThoracolumbarBox
Spine Level
STANDARD
FLUOROSCOPIC

**Spine Level Tag**
To identify the Spine Level Pathology Set

**Spine Level**
Disposable

USERGUIDE

**User Guide QR Code**
Scan for Tutorials & Documentation

**Patient Positioning Tag**
Reference point to position the Spine Level correctly

**Workstation**
Reusable


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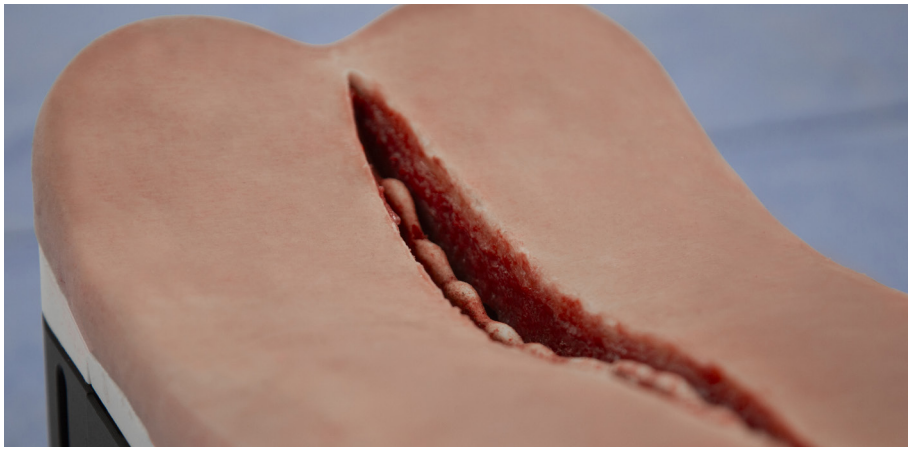
# The highest level of detail

## PROCEDURES:

- **Posterior** decompression and fixation of the lower thoracic and lumbosacral segments
- **PLIF** (Posterior Lumbar Interbody Fusion)
- **TLIF** (Transforaminal Lumbar Interbody Fusion)
- **Open and percutaneous approaches** (open reusable Skin Level and closed disposable Skin Level respectively)

## SURGICAL CAPABILITIES:

- **Laminectomies and flavectomies**
  10 Levels (T8-L5)
- **Multiple discectomies**
  Nerve root decompression through discectomies feasible from T8 to S1 (10 discectomies, T8-9, T9-10, T10-11, T11-12, T12-L1, L1-2, L2-3, L3-4, L4-5, L5-S1)
- **Multiple corpectomies**
  Total corpectomy feasible from T8 to L5 (10 corpectomies)
- **Instrumented surgery**
  Placement of any artificial disc and body, according to the above mentioned levels (screws, disc cages, interbody cages)



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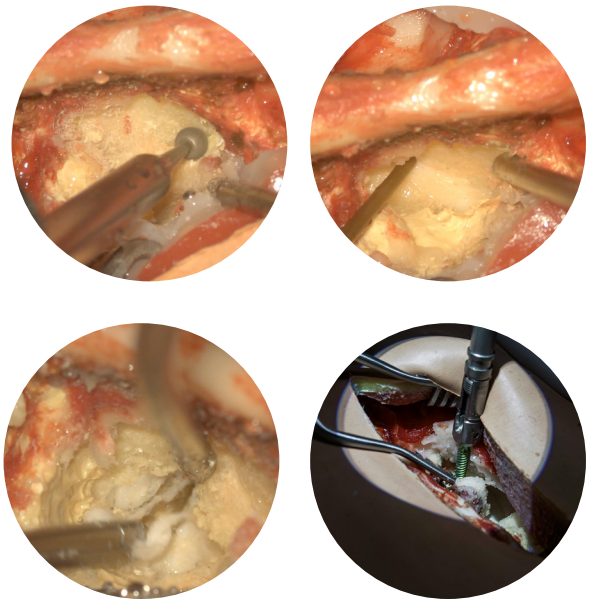
# Surgical realism

ODORLESS

NON-PERISHABLE

- Ultra-accurate anatomy
- Hyper-realistic materials



## ANATOMY INCLUDED IN THIS APPROACH:

- Open and closed skin
- Paravertebral muscles
- Ligamentum flavum
- PLL (Posterior Longitudinal Ligament)
- Vertebrae from T8 to S1
- Discs from T8-9 to L5-S1
- Spinal cord
- Nerve roots
- Peridural fat

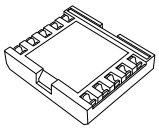
# Mobile X-ray

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

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

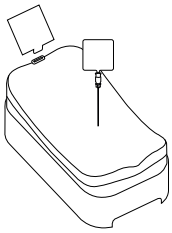
**Neurosurgery App***

+

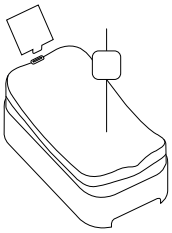


**Mobile X-ray Kit**

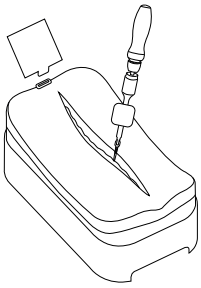
**Spine needle**

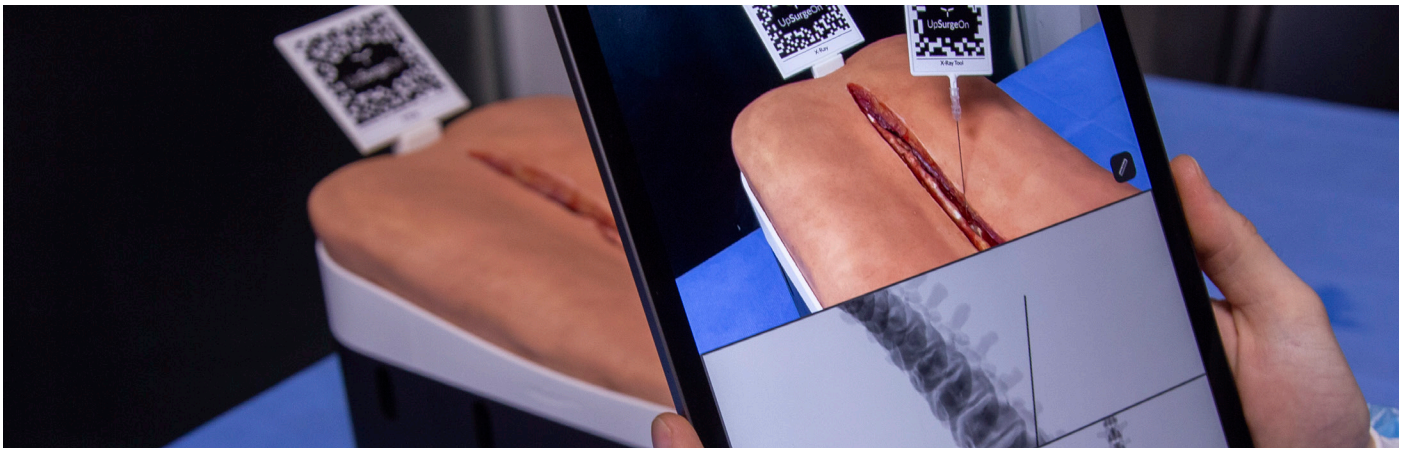


**K-wire**



**Custom instrument**



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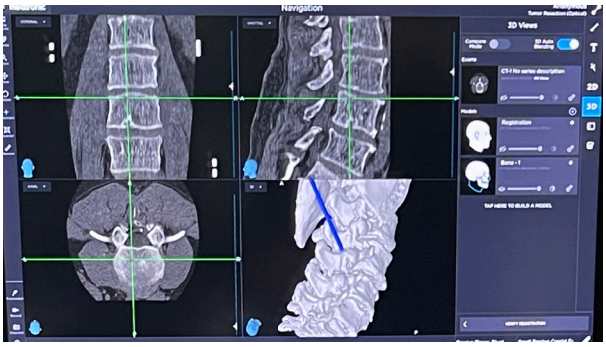
## Navigation*

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

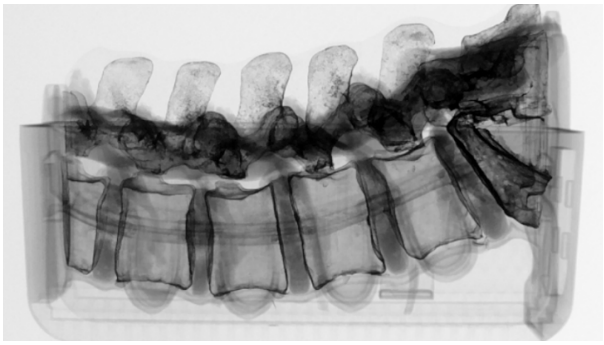
**Contact us at support@upsurgeon.com to check the compatibility of your Navigation technology.*



## Standard imaging

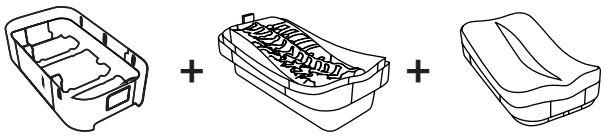
Scan the box with X-ray and CT to verify the level and visualize the positioning of the fixation implants*.

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



## Disposable parts

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



Workstation
*Reusable*

Spine Level
*Disposable*

Skin Level
*Disposable/Reusable*

### Skin Level (MIS)
Disposable

### Skin Level (Open)
Reusable

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# What is included

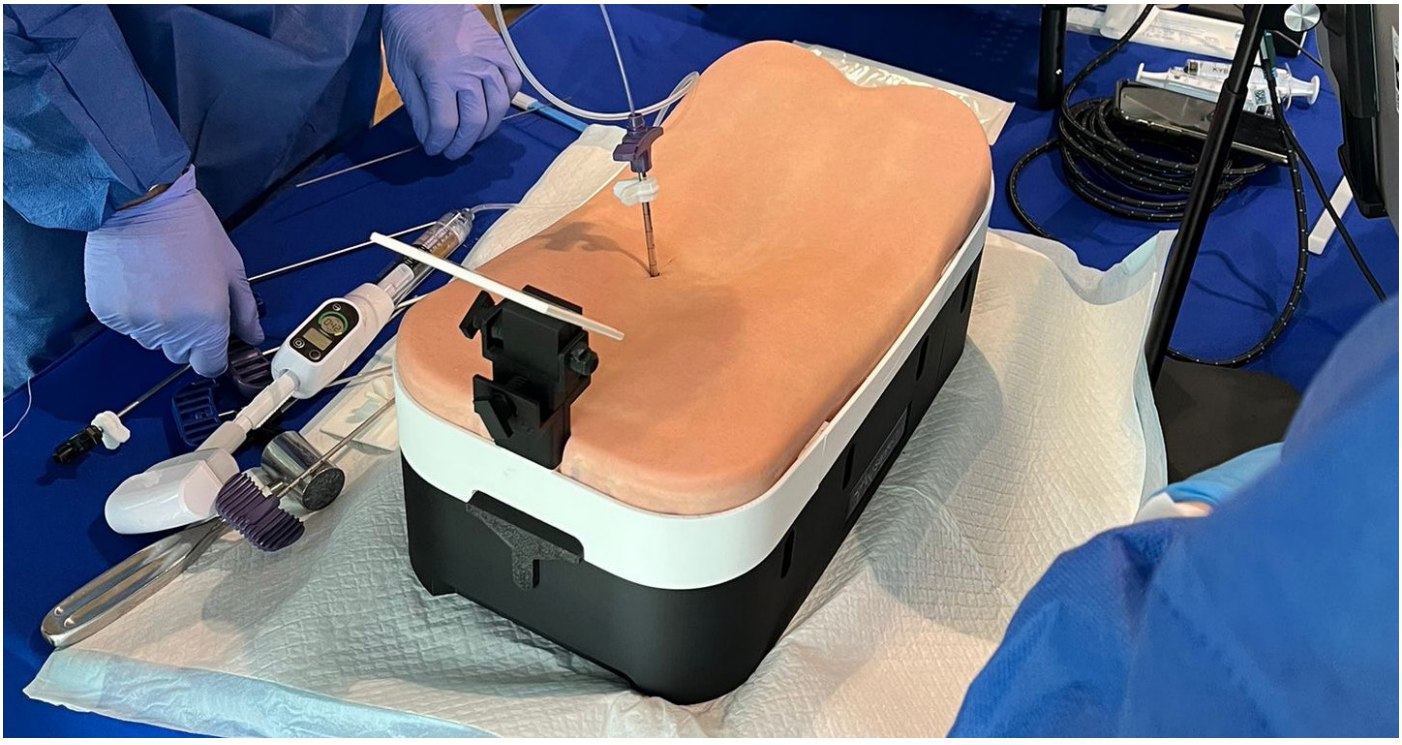
- 1x Workstation:
  Black Base, Mobile X-Ray Kit, USB with CT for Navigation, DRB Support for Navigation, Quick Start Guide, Lubricant
- 1x Skin Level (Open or MIS)
- 1x Spine Level

# General warnings

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

- Adult assembly required
- Never leave children unattended with the box
- 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 and use eye protection 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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# Making surgical excellence universally accessible

## Follow UpSurgeOn

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

**Go to website www.upsurgeon.com**


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