Spine Series

UpSurgeOn

Endoscopic Posterior CervicalBox

Hyper-realistic Spinal Surgery Simulator for Posterior Approaches to the Cervical Spine

From C2-C6

Pathologies

Spondylotic Stenosis: 5 levels of posterior compression to be operated through posterior laminectomies (C2, C3, C4, C5, C6).

Features

Modularity
5 Operable Levels in a single simulator
Disposable Spine Level & Skin Level

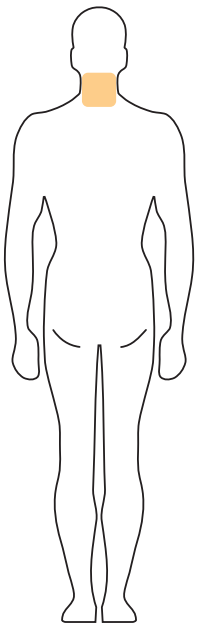
Surgical Realism
The most realistic simulator for posterior cervical approach

Water Management
Endoscopic Posterior CervicalBox is designed to manage high irrigation flows through a modular water collection system.

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

Frame
Reusable

Skin Level
Disposable

Spine Level
Disposable

White Base
Reusable

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

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

Black Box
Reusable

USERGUIDE

User Guide QR Code
Scan for Tutorials & Documentation

Workstation
Reusable

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The highest level of detail

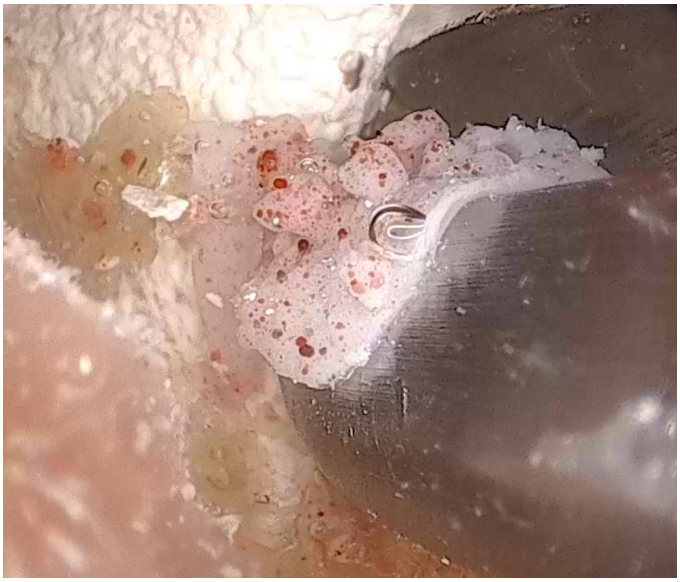
PROCEDURES:

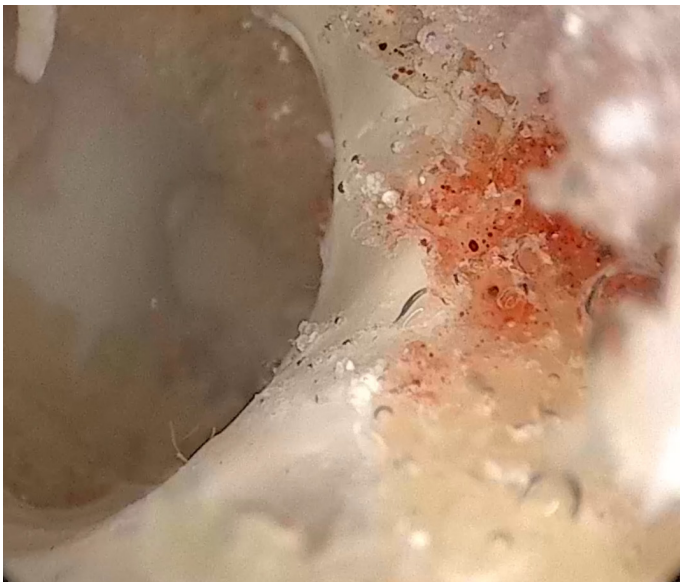
Multilevel posterior decompressions for spondylotic stenosis:

- Five levels of compressive pathology (C2 to C6) ideal for posterior decompression techniques.
- Trainees can practice multilevel posterior laminectomies to relieve spinal cord pressure.

SURGICAL CAPABILITIES:

- **Laminectomies, laminoplasties and flavectomies, endo fusion**
  Practice posterior cervical decompression techniques across five vertebral levels (C2 to C6), ideal for developing skills in cervical spine myelopathy treatment.
- **Instrumented surgery training**
  Practice placing posterior cervical implants, including screws, artificial discs, and interbody cages. This comprehensive approach covers multilevel fixation and cervical spine stabilization techniques for advanced surgical training.





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Surgical realism

ODORLESS

NON-PERISHABLE

- Ultra-accurate anatomy
- Hyper-realistic materials

ANATOMY INCLUDED IN THIS APPROACH:

- Skin
- Vertebral bodies from C2 to C6
- Intervertebral discs from C2 to C6
- Paravertebral muscles
- Vertebral arteries
- PLL (Posterior Longitudinal Ligament)
- Spinal cord
- Peridural fat

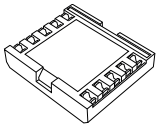
Mobile X-ray

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.

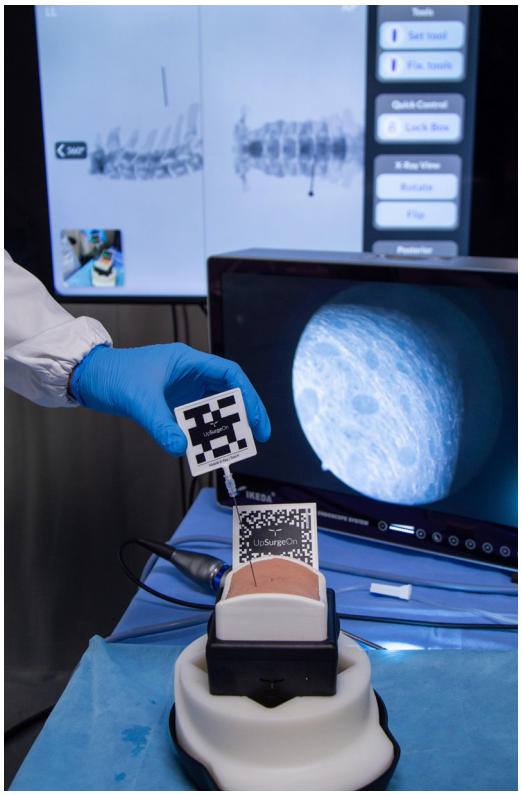
*Attention: Mobile X-ray module works on Apple devices only.

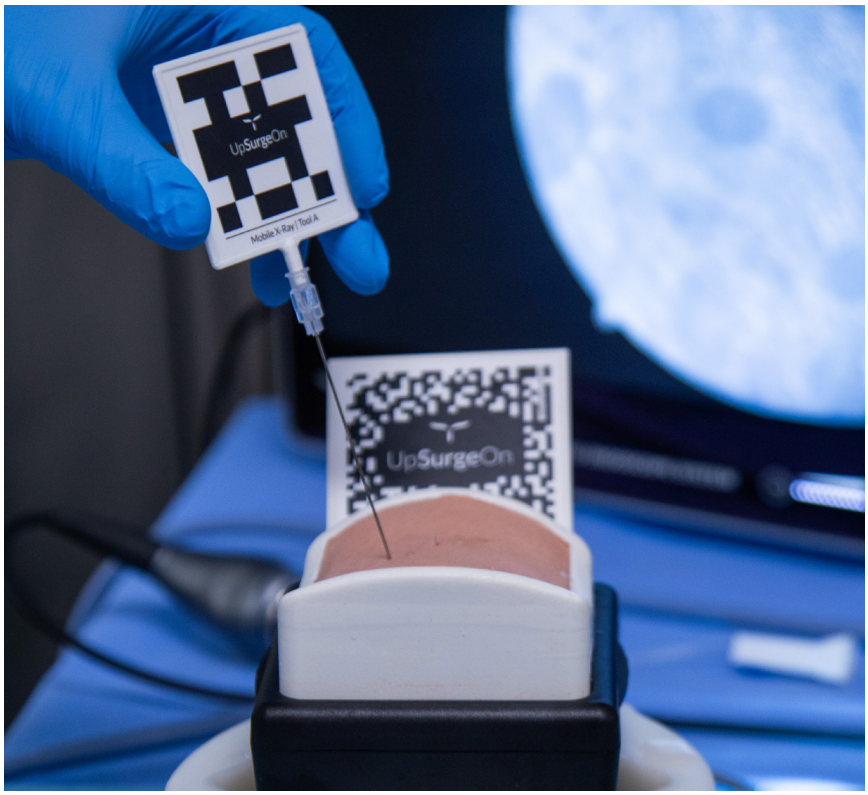
Neurosurgery App*

+



Mobile X-Ray Kit





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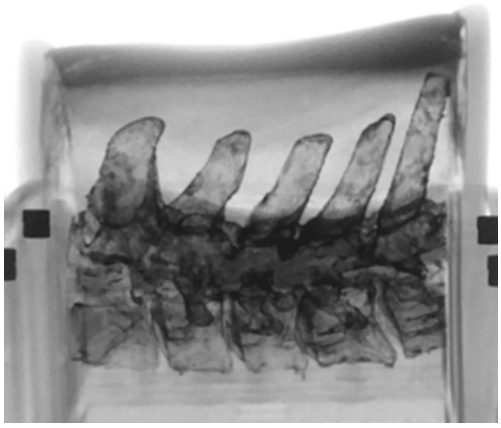
Standard imaging*

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.

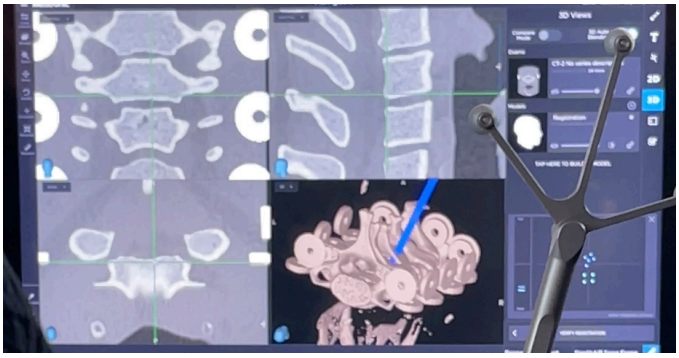


Navigation*

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.

Please note: The NavigationFrame is not included.



Disposable parts

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

Skin Level

Spine Level

What is included

- 1x Workstation:
  Water Collection Base, Black Box, Frame, White Base, Outflow tube, Support for Outflow Tube
- 1x Skin Level
- 1x Spine Level
- Mobile X-Ray Kit
- Waterproof bag for product storage
- USB with CT for Navigation
- Quick Start Guide for Endoscopic Series

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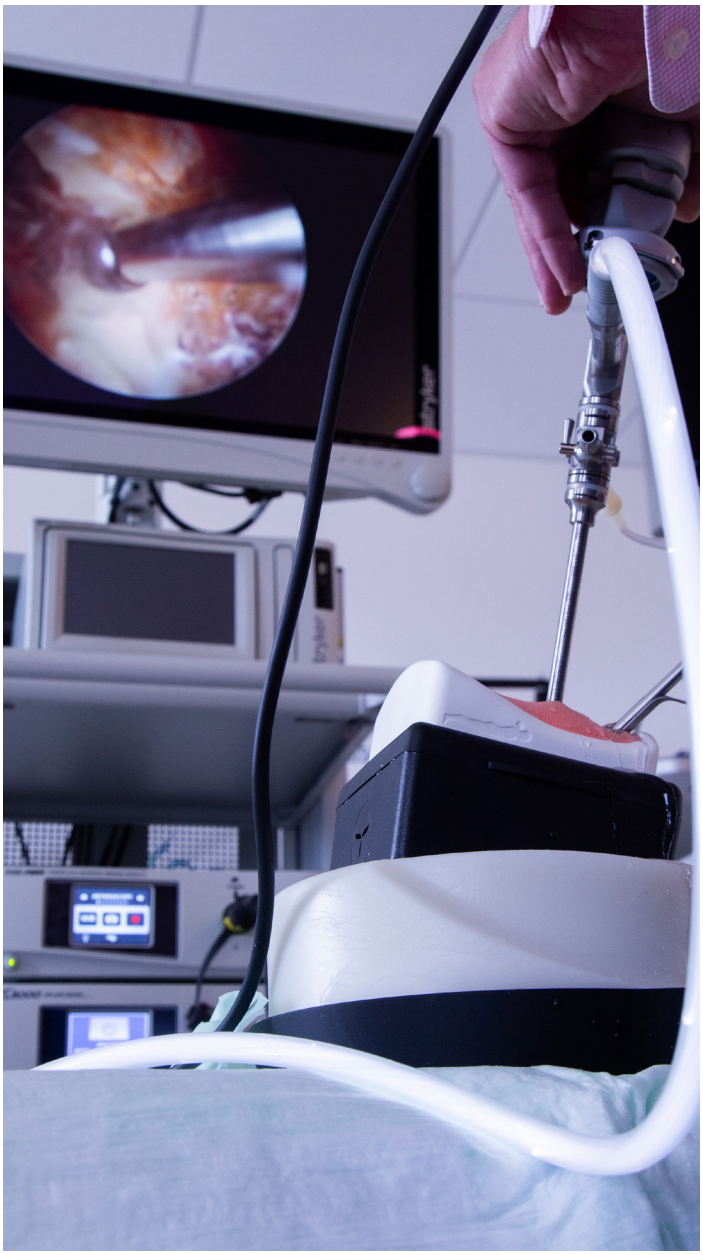
General warnings

THIS PRODUCT CONTAINS METAL MAGNETS: DO NOT PUT IT INTO A MAGNETIC RESONANCE SCANNER AND DO NOT USE IT WITH ANY MACHINE THAT WORKS WITH ELECTROMAGNETS

- 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 away from any heat source

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.

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