

Anterior Cervical Box

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

From C3 to C7



Pathologies

Spondylotic Myelopathy: 5 disc herniations (C3-4, C4-5, C5-6, C6-7, C7-T1).



Features



Modularity

6 Operable Levels in 1 single simulator
Two disposable levels: Skin Level + Spine Level



Surgical Realism

The most realistic simulator for anterior cervical approach



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.*



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 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.

How it is composed

AR Marker slot

FRAME (Reusable)

SKIN LEVEL (Disposable)

RJ11 Female port for
Pulsation Controller Cable

SPINE LEVEL (Disposable)

SLITTA (Reusable)

BOX (Reusable)

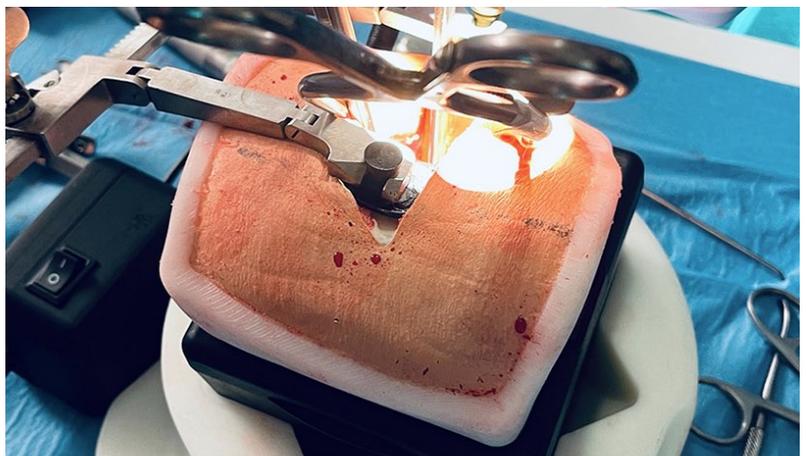


The highest level of detail

PROCEDURES:

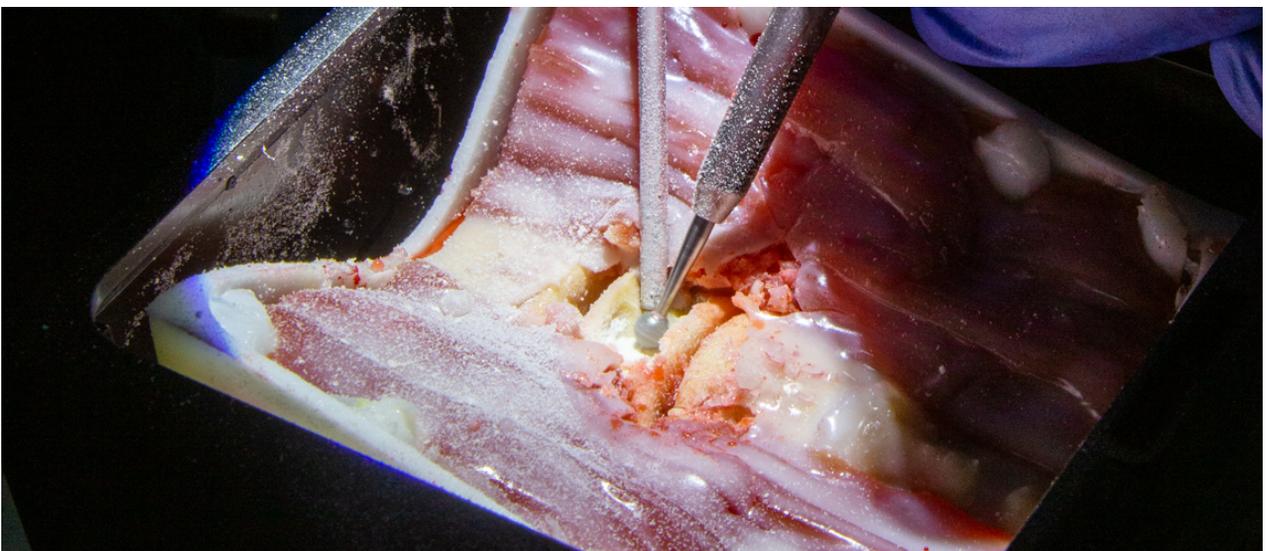
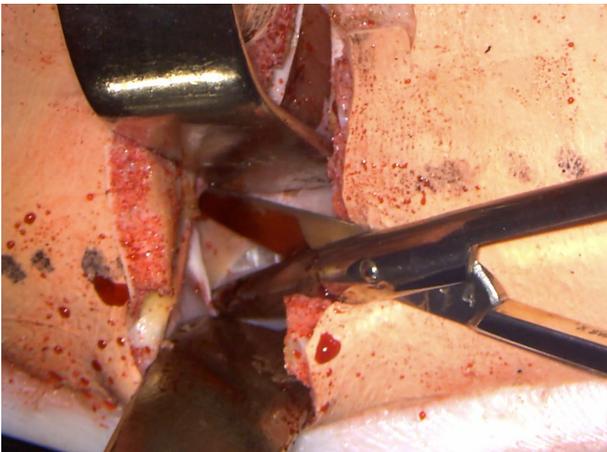
Multilevel anterior decompressions for spondylotic myelopathy through:

- Anterior discectomies from C3 to T1 (5 discectomies)
- Anterior corpectomies from C4 to C7 (4 corpectomies)
- Intersomatic fixations with disc or body cage replacement, from C3 to T1



SURGICAL CAPABILITIES:

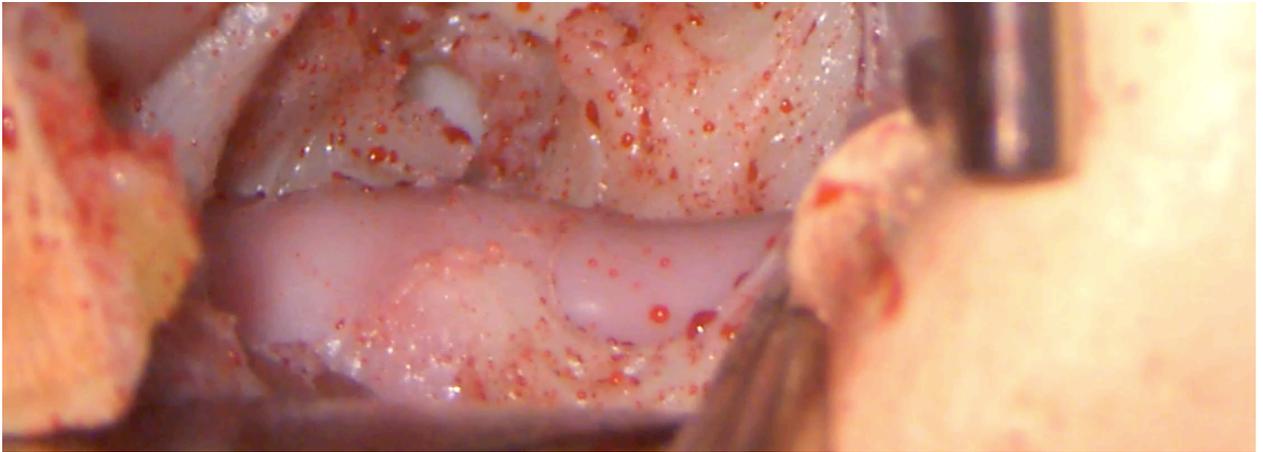
- **Skin incision**
Hyperrealistic skin with bleeding upon incision, featuring multiple layers of suturable epidermis and subcutaneous tissue
- **Layer by layer soft tissue dissection**
Blunt dissection to expose subcutaneous planes and reveal the platysma muscle
- **Platysma muscle incision**
Hyperrealistic platysma muscle and fascia layer, to be opened with scissors and dissected in the layer beneath the muscle
- **Detection of carotid artery**
Palpate, dissect, and mobilize the common carotid artery (blood-filled), isolating the carotid sheath.
- **Multiple discectomies**
Incision of the ALL (Anterior Longitudinal Ligament located inside the vertebral canal) and discectomy until visualizing the anterior dural surface. Procedure feasible from C3 to T1 (5 discectomies: C3-4, C4-5, C5-6, C6-7, C7-T1)
- **Multiple corpectomies**
Total corpectomy feasible from C4 to C7 (4 corpectomies: C4, C5, C6, C7)
- **Instrumented surgery**
Placement of any artificial disc and body, according to the above-mentioned levels (disc cage, somatic cage, anterior plates, somatic screws)
- **Standard X-Ray and navigation**
Simulator compatible with standard Fluoroscopy and CT scan for visualizing the vertebrae
- **Mobile X-Ray**
Simulator compatible with mobile X-Ray through the Neurosurgery App (module Xray). Marker for the needle included in the package



Surgical Realism

ANATOMY INCLUDED IN THIS APPROACH:

- Skin
- Subcutaneous tissue
- Subcutaneous vessels
- Adipose tissue
- Platysma
- Medial mass representing esophagus and trachea
- Sternocleidomastoid muscle
- Common Carotid artery and surrounding carotid sheath
- Connective tissue
- Vertebral bodies from C4 to C7
- Intersomatic discs from C3-4 to T7-S1
- Paravertebral muscles
- ALL (Anterior Longitudinal Ligament)
- Spinal cord
- Peridural fat



Mobile X-Ray

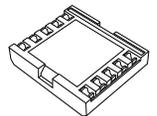
Get the Neurosurgery App* to simulate fluoroscopy with Mobile X-Ray Technology to set your trajectory and navigate your instruments in real time.

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

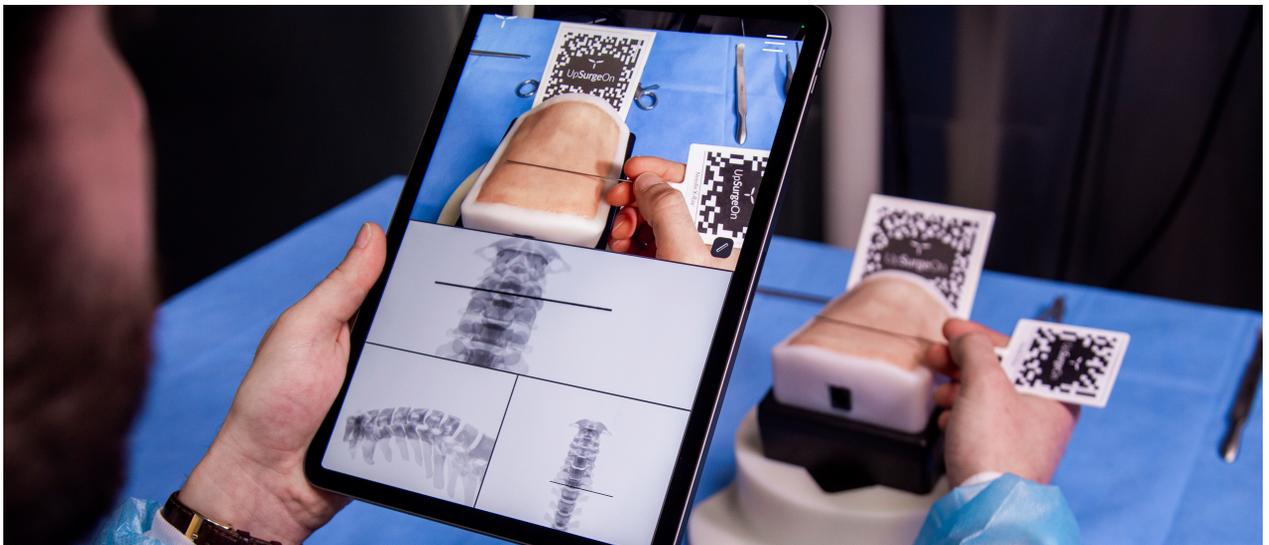


Neurosurgery App*

+



Mobile X-Ray Kit

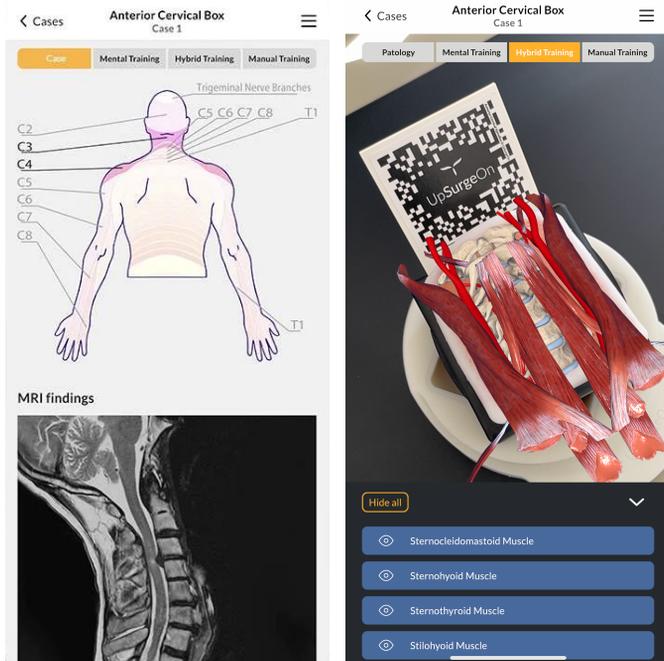


Augmented Reality

Guided by the Module “Spine”, available in the Neurosurgery App, consult the clinical case history of a patient before performing surgery.



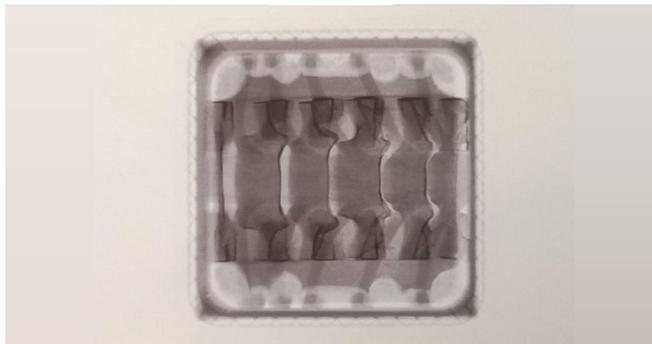
Frame the QR Code and download Neurosurgery App for Google Play and Apple Store.



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

- Anterior CervicalBox:
 - 1 Skin Level
 - 1 Spine Level
 - 1 Box
 - 1 White Base
- AR Marker
- Mobile X-Ray tools
- Pulsation controller
- Lubricant



General warnings

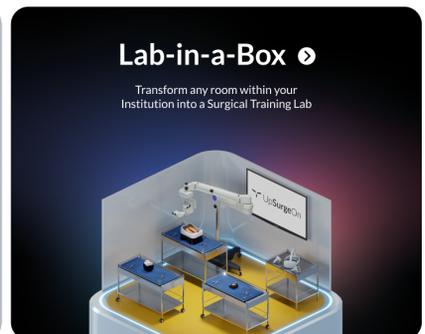
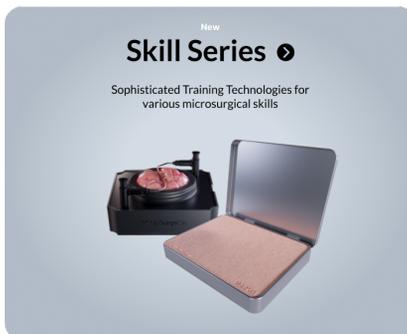
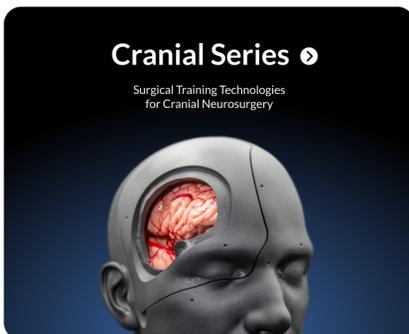
THIS PRODUCT CONTAINS METALS: DO NOT PUT IT INTO A MAGNETIC RESONANCE!

- Adult assembly required
- Never leave children unattended with the box
- Never put hot liquids above the tools
- Never put chemical substances above 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.

Discover our Technologies

We have developed the most advanced microsurgical simulation Technologies to date, with the goal of raising the bar for medical education and training.



Thank you for choosing our Technologies!
For any inquiries please contact us at info@upsurgeon.com
Go visit our website at www.upsurgeon.com
Go visit our store at www.store.upsurgeon.com