

Anterior CervicalBox

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

From C3 to C7

Pathologies

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

Features



Modularity

From C3 to C7

Two disposable levels: Skin Level + Spine Level



Surgical Realism

The most realistic simulator for anterior cervical approach, with
pulsating carotid artery



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

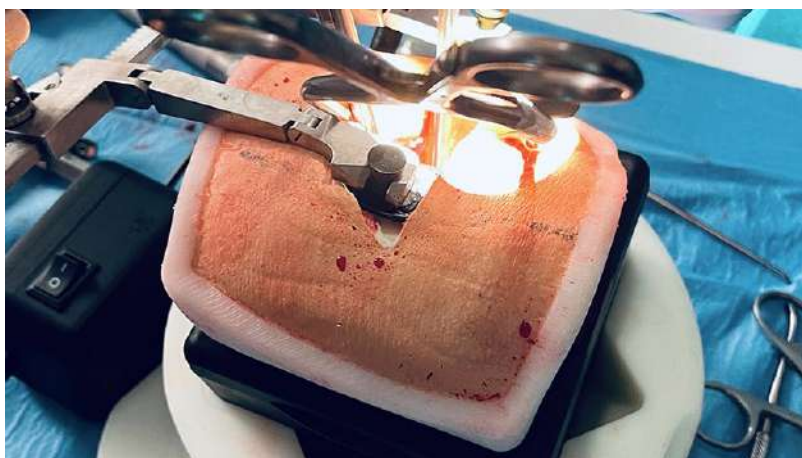


The highest level of detail

PROCEDURES:

Multilevel anterior decompressions for spondylotic myelopathy through:

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



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, 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)

- **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-

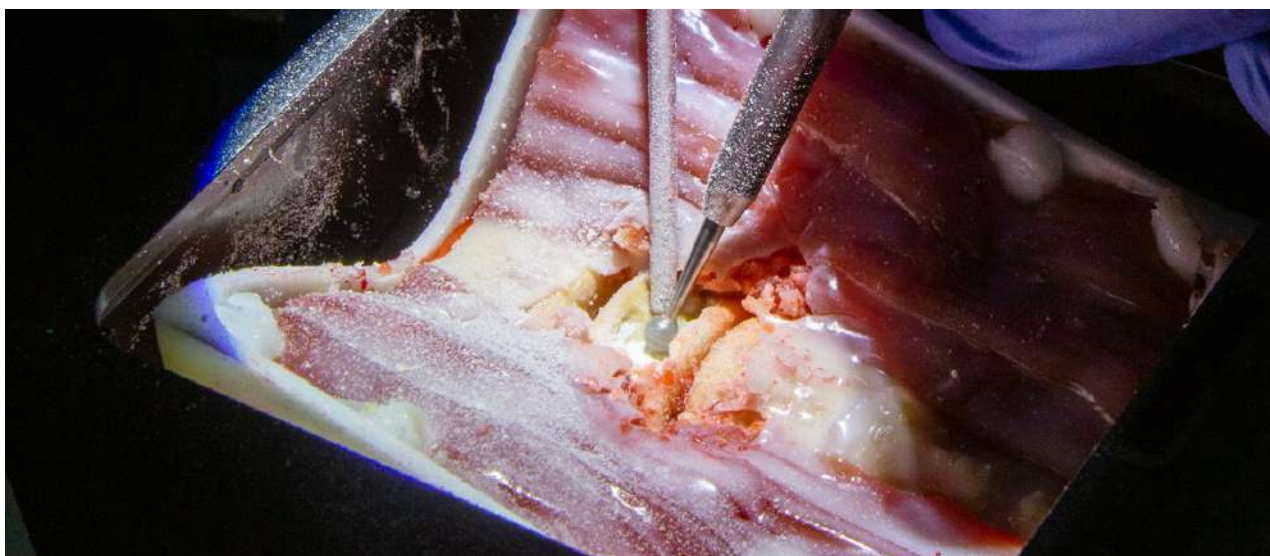
mentioned levels (disc cage, somatic cage, anterior plates, somatic screws)

- **Standard X-Ray and navigation**

Simulator compatible with standard Fluoroscopy and CT scan for visualizing the vertebrae

- **Mobile X-Ray**

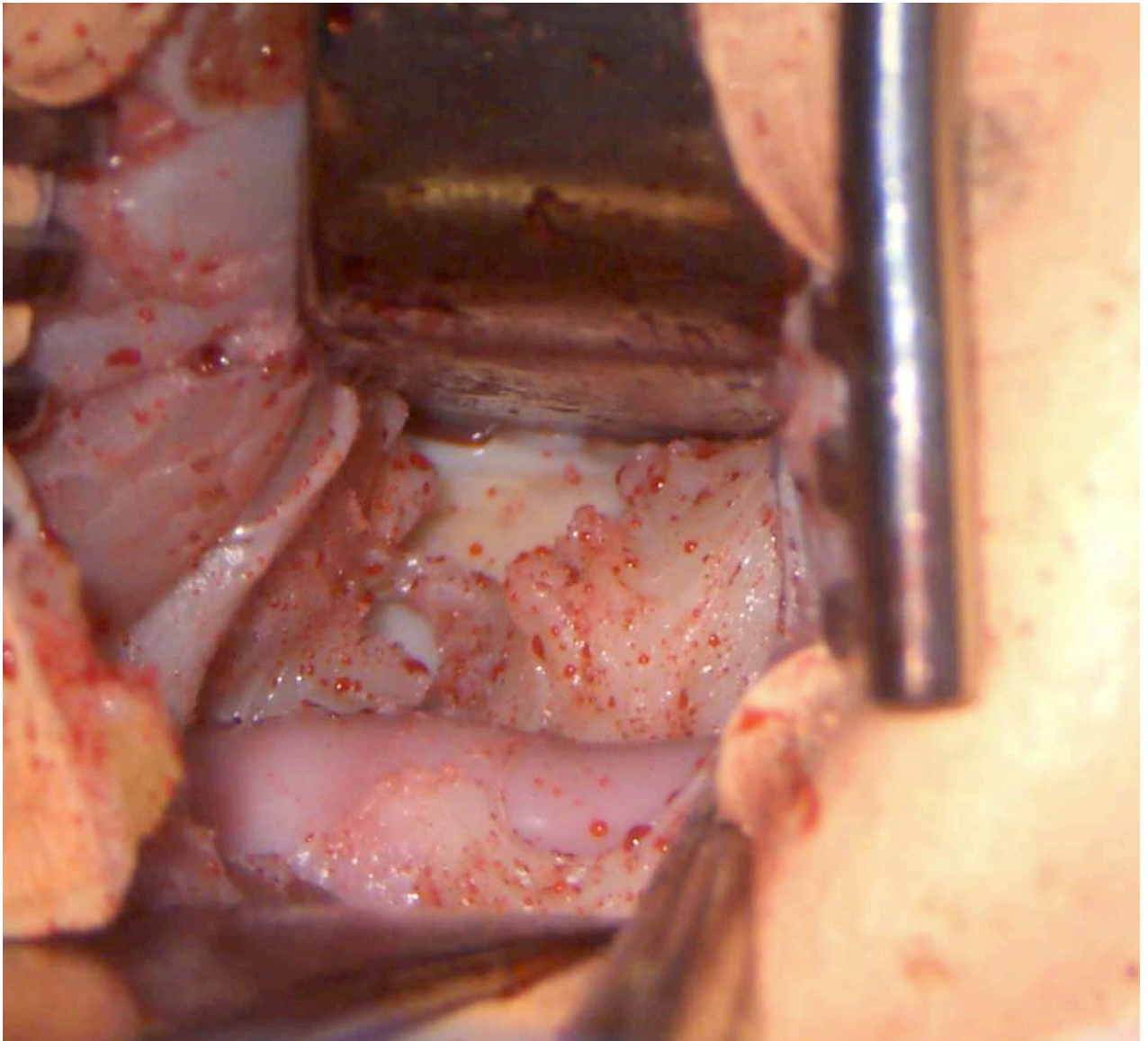
Simulator compatible with mobile X-Ray though the Neurosurgery App (module Xray). Marker for the needle included in the package



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 C6-7
- Paravertebral muscles
- ALL (Anterior Longitudinal Ligament)
- Spinal cord
- Peridural fat



Mobile X-Ray

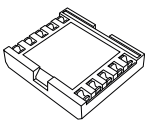
Get the Neurosurgery App* to simulate fluoroscopy with Mobile X-Ray Technology to set your trajectory and navigate your instruments in real time.

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

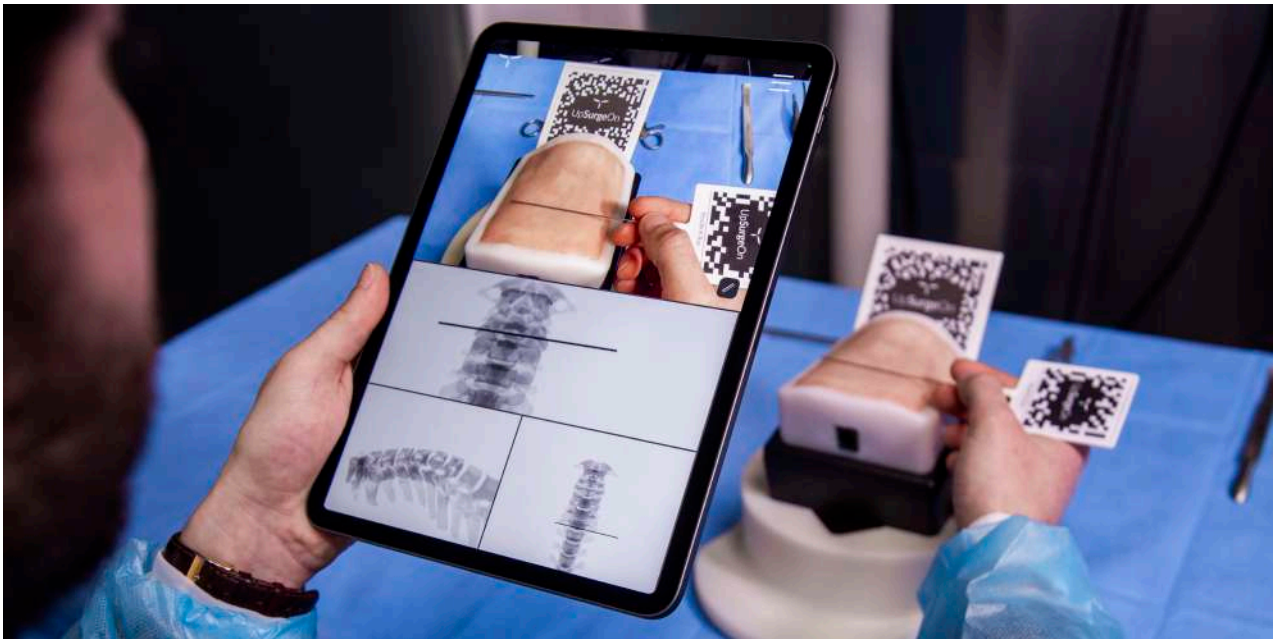


Neurosurgery App*

+



Mobile X-Ray Kit

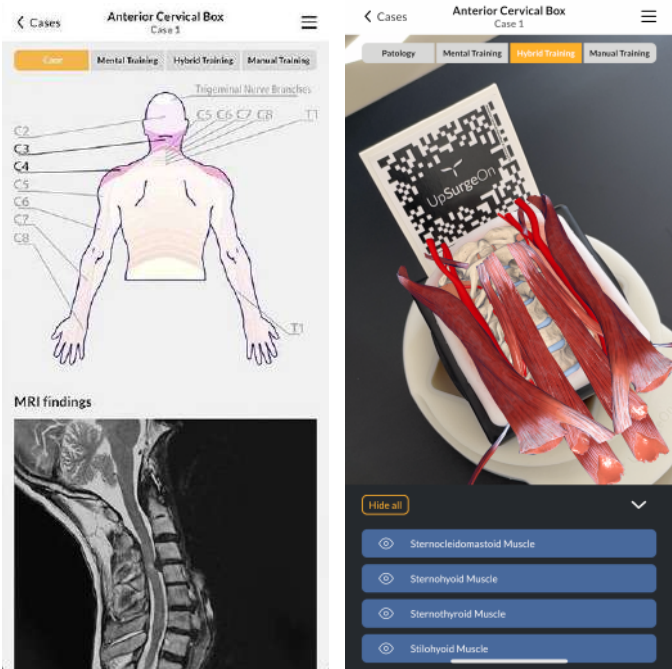


Augmented Reality

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



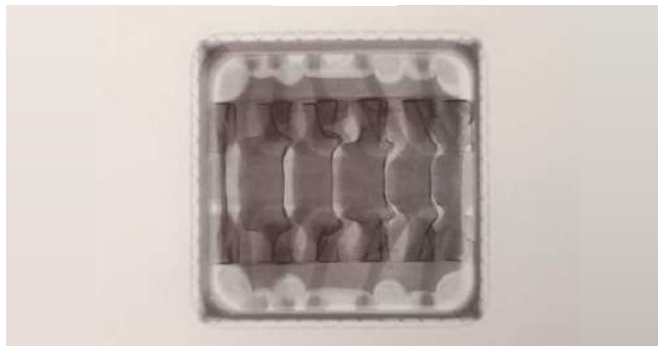
Frame the QR Code and download Neurosurgery App for Google Play and Apple Store.



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
- 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.

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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.



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