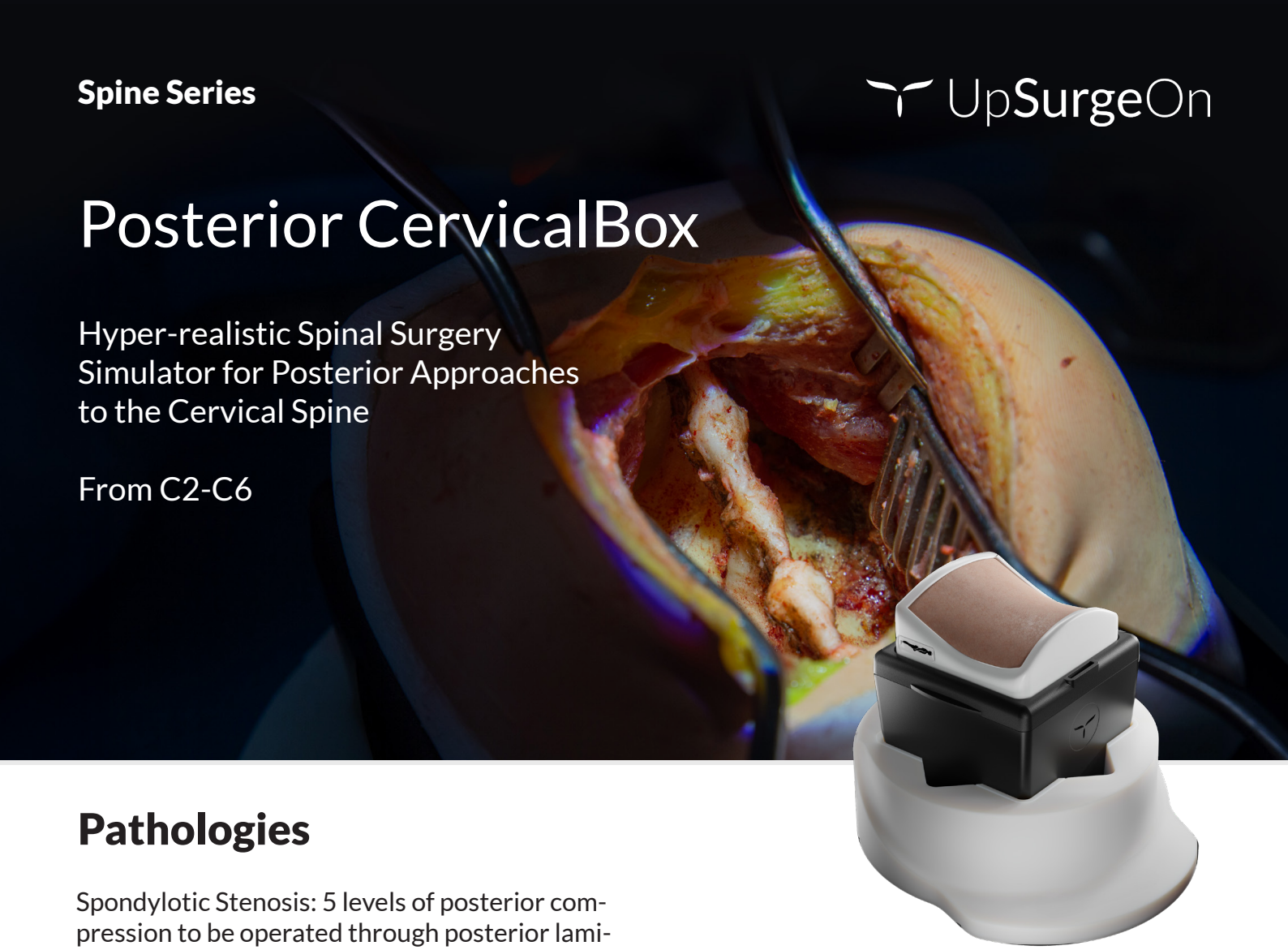
Posterior CervicalBox

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

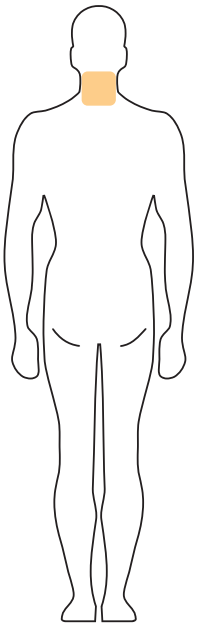
From C2-C6



Pathologies

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

Features



Modularity
6 Operable Levels in 1 single simulator
Disposable Spine Level

Surgical Realism
The most realistic simulator for posterior 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.

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 MRI scan on the navigator and start navigating the Box.

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

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How it is composed

Black Frame
Reusable

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

Skin Level
Disposable

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

Spine Level
Disposable

Black Box
Reusable

USERGUIDE

User Guide QR Code
Scan for Tutorials & Documentation

White Base
Reusable

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The highest level of detail

PROCEDURES:

Multilevel posterior decompressions for spondylotic myelopathy through:

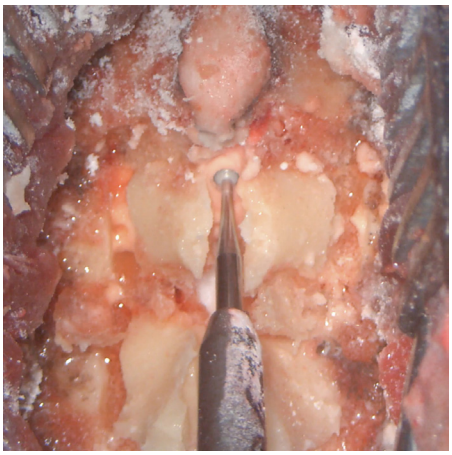
- Posterior Laminectomies from C2 to C6 (5 laminectomies)
- Posterior Laminoplasties from C2 to C6 (5 laminoplasties)
- Screw fixations from C2 to C6

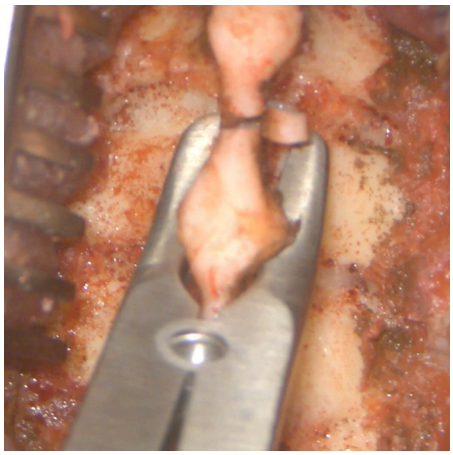
SURGICAL CAPABILITIES:

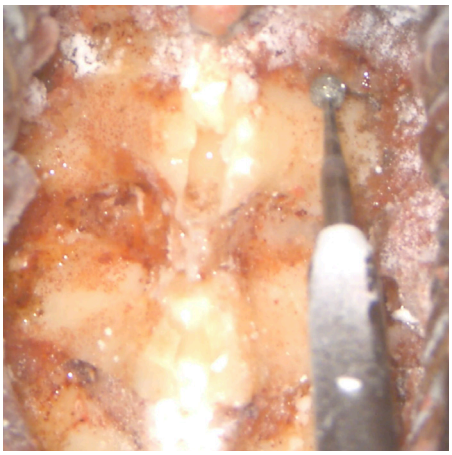
- **Laminectomies, laminoplasties and flavectomies**
  5 (C2, C3, C4, C5, C6)

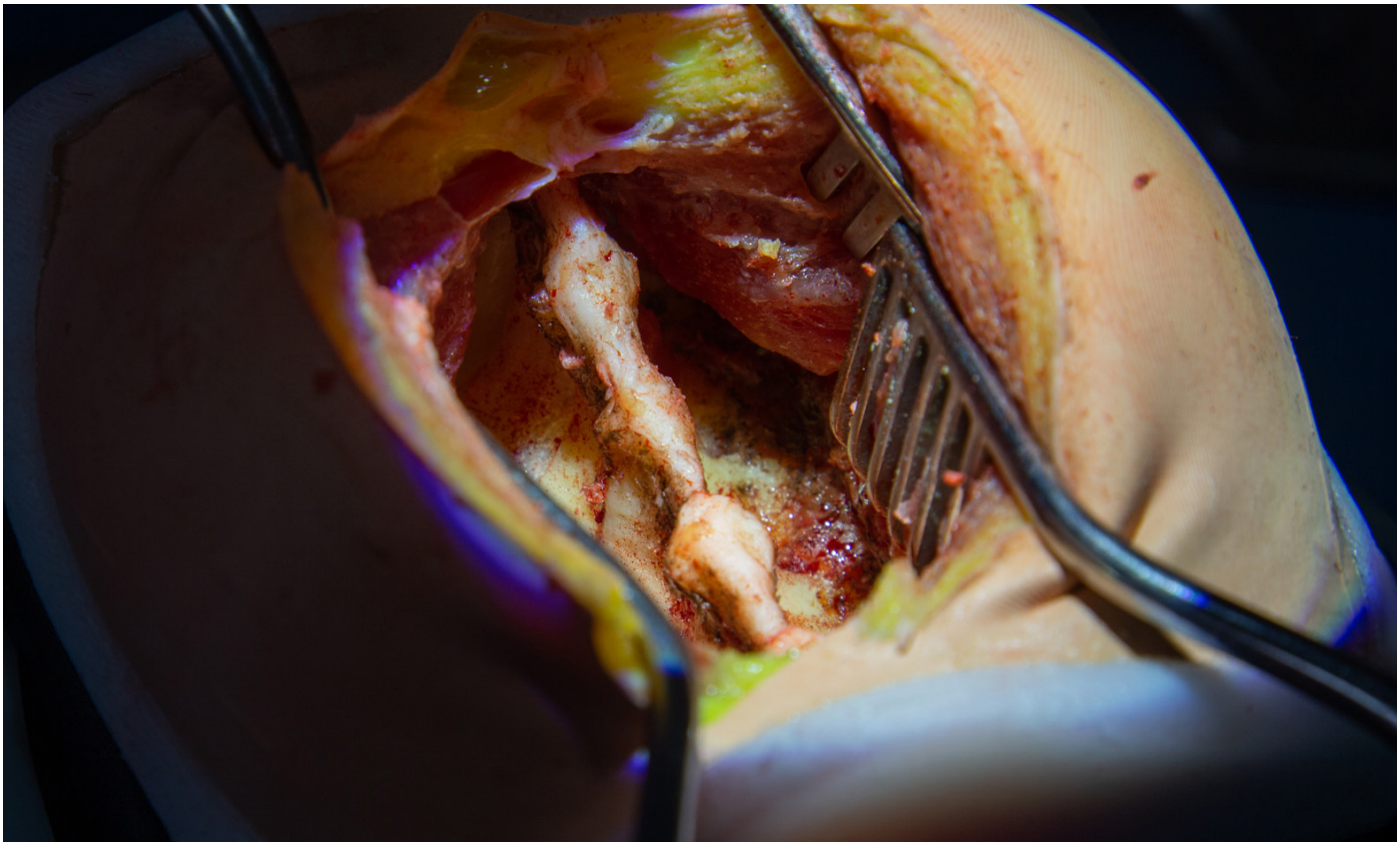
- **Instrumented surgery**
  Placement of screws and any other type of posterior cervical fixation, according to the above-mentioned levels

- **Instrumented surgery**
  Placement of any artificial disc and body, according to the above-mentioned levels (disc cage, somatic cage, anterior plates, somatic screws)









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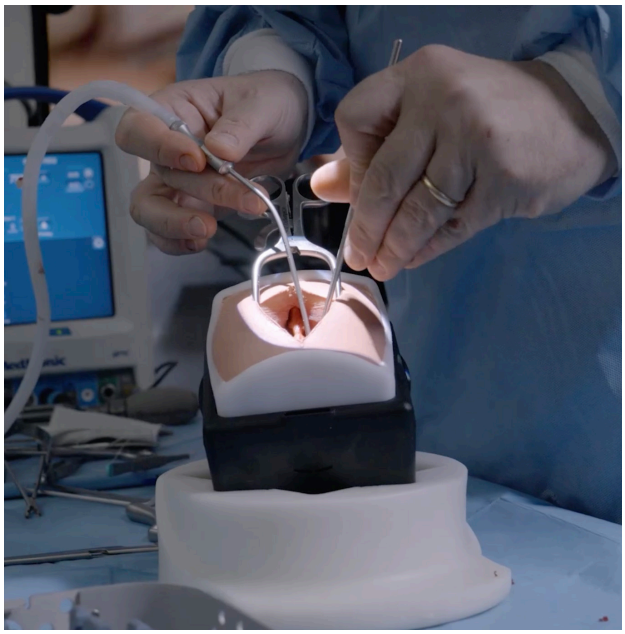
Surgical Realism

ODORLESS

NON-PERISHABLE

1. Ultra-accurate anatomy
2. Hyper-realistic materials



ANATOMY INCLUDED IN THIS APPROACH:

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

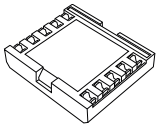
Mobile X-Ray

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.

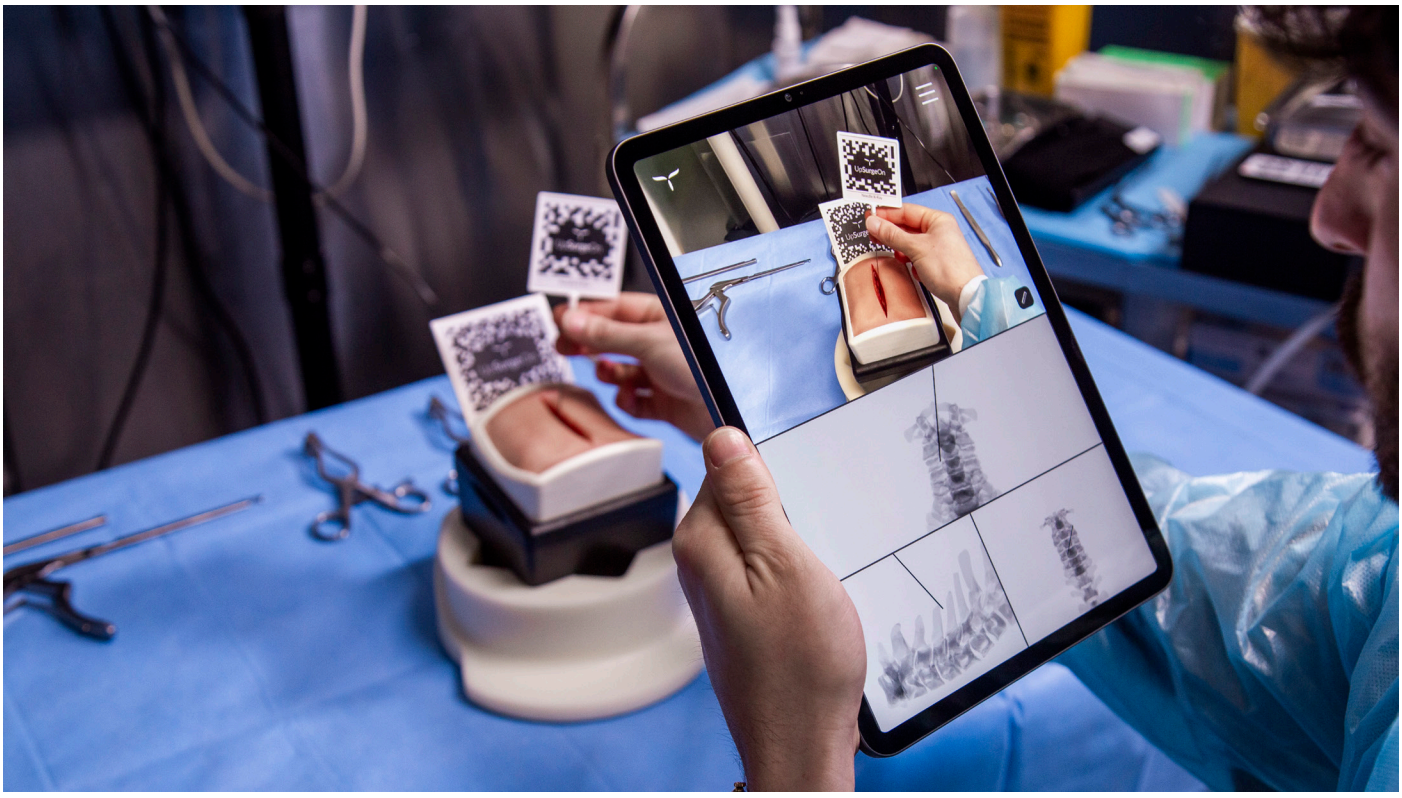
*Attention: Mobile X-Ray module works on Apple Devices only.

Neurosurgery App*

+



Mobile X-Ray Kit



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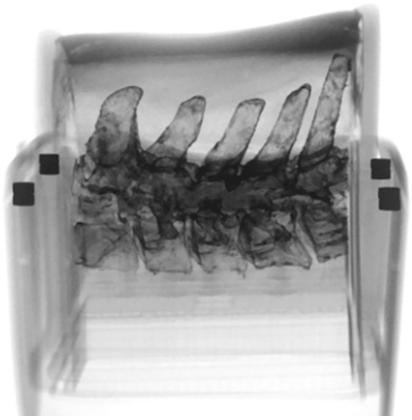
Standard imaging

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.

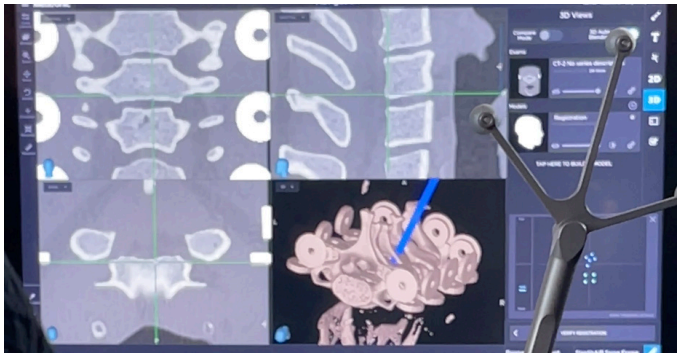


Navigation

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

*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.

Black Box
Reusable

+

Spine Level
Disposable

+

Skin Level
Reusable

What is included

- 1x Workstation:
  Black Box, Black Frame, White Base
- 1x Skin Level
- 1x Spine Level
- Mobile X-Ray Kit
- USB with MRIs for Navigation
- Lubricant

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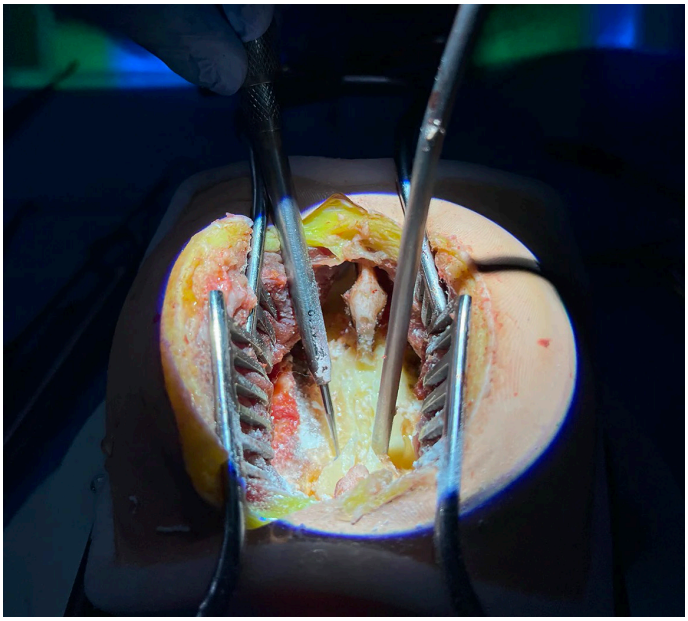

General warnings

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

- 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 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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Reach out to us

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UpSurgeOn is a hi-tech company specialized in psychomotor skill augmentation in microsurgeries through the use of bleeding-edge virtual andphysical simulation technologies.

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