Cranial Series

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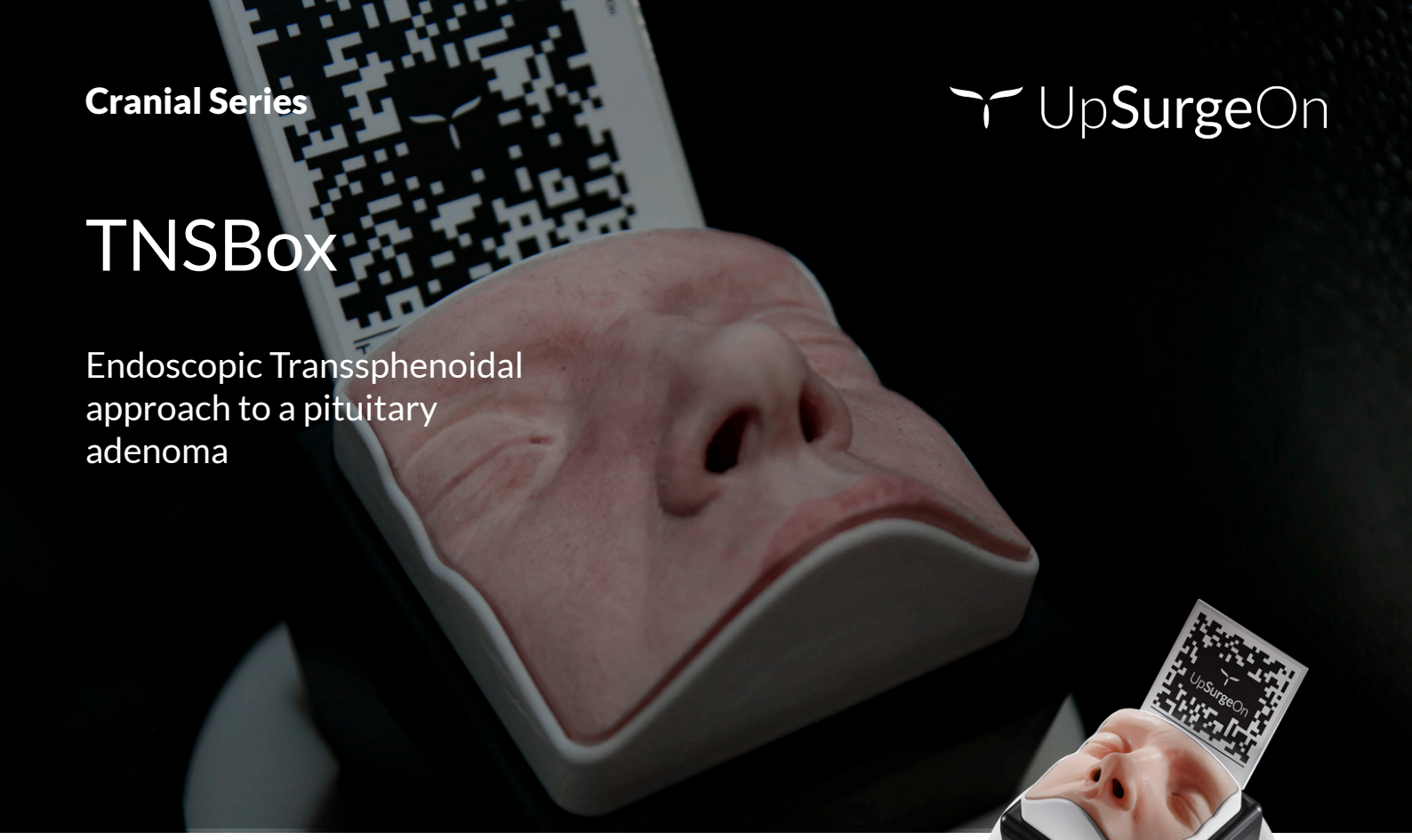
TNSBox

Endoscopic Transsphenoidal approach to a pituitary adenoma



Neurosurgical simulator equipped with mobile AR and navigation.

Features

Mobile endoscope and instruments included

Enhance your simulation experience with our included mobile endoscope and instruments, providing comprehensive hands-on training and procedural practice.

Augmented Reality App

Get the Neurosurgery App to explore cases, navigate 3D models, and utilize Augmented Reality on the simulator to strategize your procedure.

Disposable Parts

Designed to provide near infinite training, disposable parts are intended to be used with the simulator and replaced to keep track of your training.

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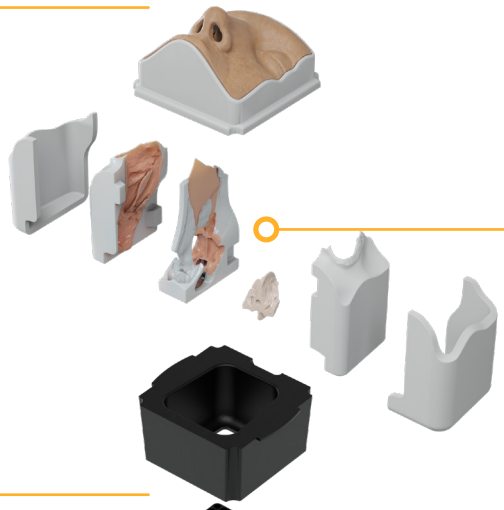
How it is composed

Black Frame
Reusable

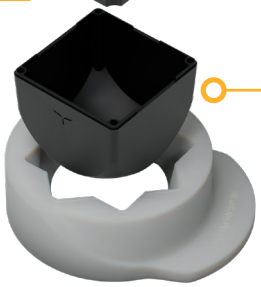
Scenario
Reusable

Cavity
Reusable or Disposable



Black Box
Reusable

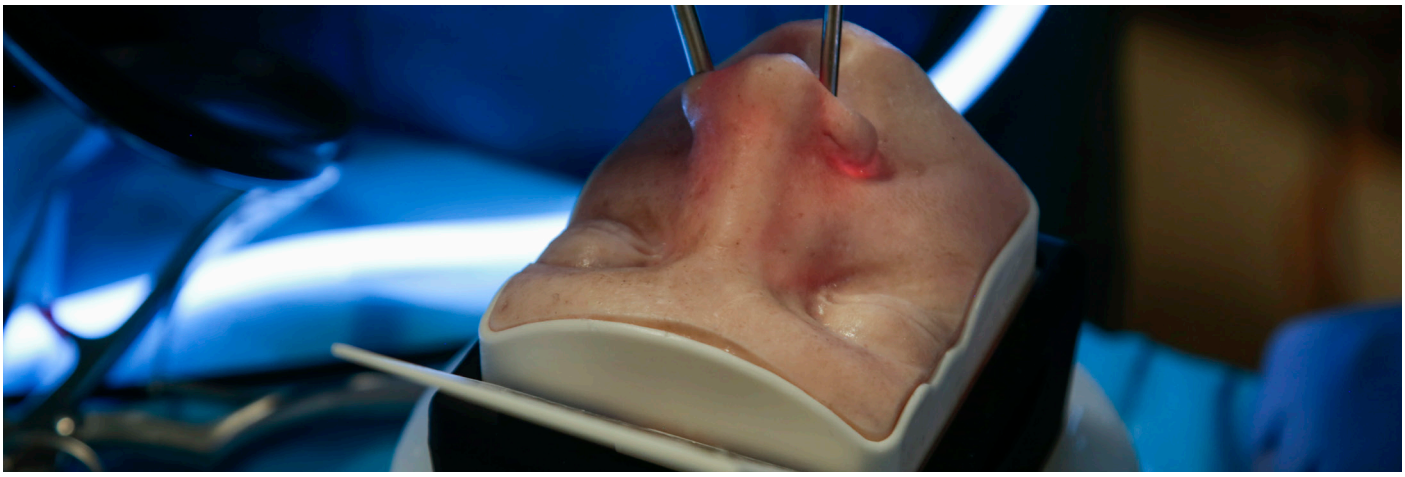
White Base
Reusable



Surgical realism

ANATOMY INCLUDED IN THIS APPROACH:

- Septal Cartilage
- Vomer
- Mucosa
- Perpendicular plate of ethmoid bone
- Sphenoidal Crest
- Nasal Cavity
- Inferior Choana
- Middle Choana
- Superior Choana
- Sphenoid Sinus
- Pituitary Tumor
- Polyposis



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How it works

Reusable and Disposable Cavities

TNSBox
Reusable Cavity Included

What can I do **AT HOME**
Using the tools included in the TNSBox and Neurosurgery App

- Learn how to use surgical instruments
- Explore the nasal cavity
- Handle the Choanae
- Dissect a reusable hypophyseal tumor
- Remove the tumor
- Repeat the exercise multiple times

TNS Disposable Cavity

What can I do **IN A LAB**

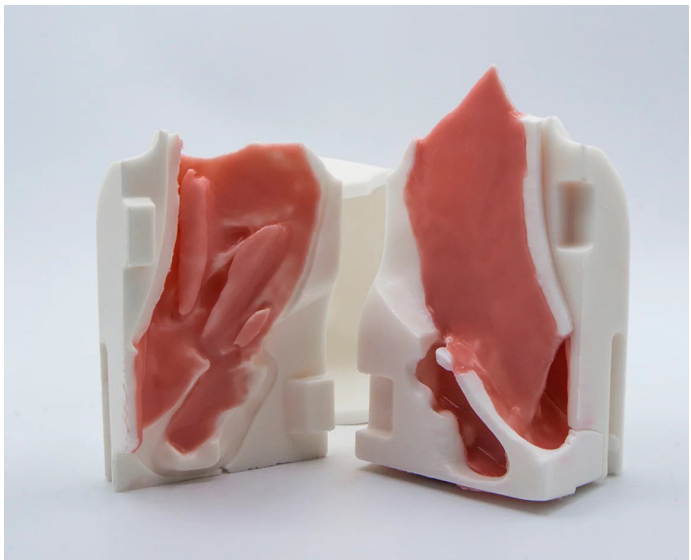
- Learn how to use surgical instruments
- Explore the nasal cavity
- Perform drilling
- Dissect a hypophyseal tumor
- Remove the tumor
- Replace the Disposable Cavity and repeat

Craniotomies with disposable cavities

Prepare the nasal cavities and perform an adenoma resection. Then replace the cavity and start again.

TNSBox is available with two different disposable cavities:

- Disposable Cavity with Pituitary Tumor
- Disposable Cavity with Pituitary Tumor and Polyposis



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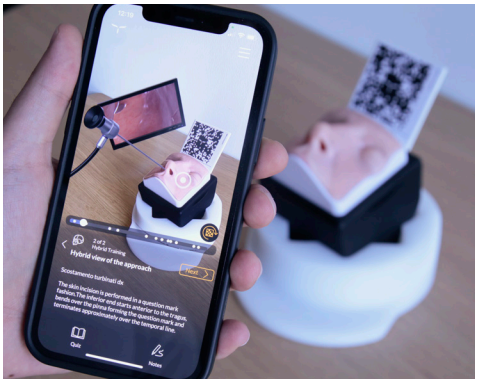
Neurosurgery App



Augmented Reality

TNSBox works with an Augmented Reality app to provide a 360° training experience.

Scan the QR Code and download Neurosurgery App from Google Play and Apple Store.

What is included

- 1x Workstation:
  Black Frame, Black Box, White Base
- 1x TNS Scenario
- 1x Reusable Cavity
- 1x Extra reusable tumor
- Surgical Instruments:
  1x Microsurgical Dissector, 1x Microsurgical tissue forceps
- AR Marker for Augmented Reality App
- LED Endoscope compatible with Android, Windows PC and MacOS
- Quick Start Guide
- Lubricant

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 simulator
- 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 are 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

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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.

Go to website www.upsurgeon.com

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