

TNS Box

Endoscopic
Transsphenoidal
approach to a
pituitary adenoma

**Neurosurgical simulator
equipped with mobile AR
and navigation.**



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

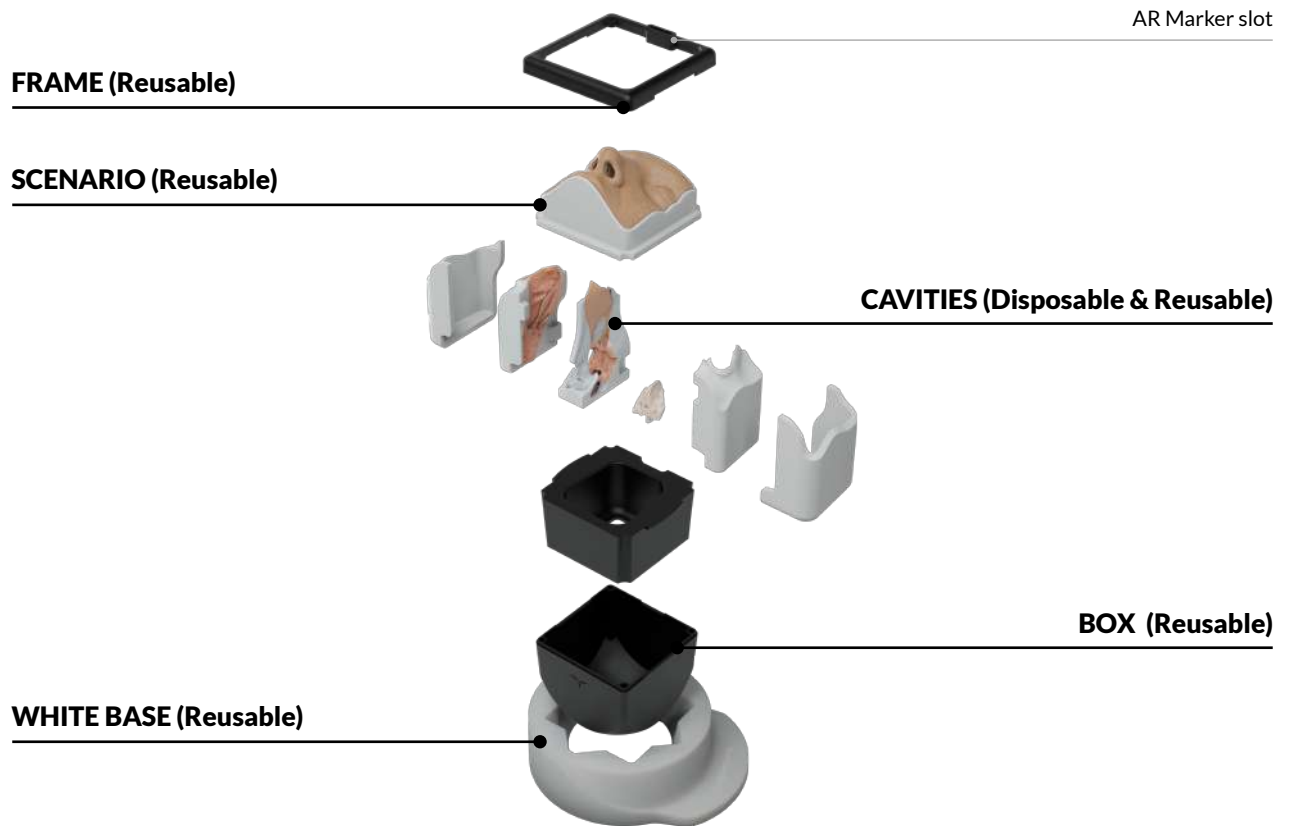
Get the Neurosurgery App to explore cases, navigate 3D models, and utilize Augmented Reality on the Box to strategize your procedure.



Disposable Parts

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

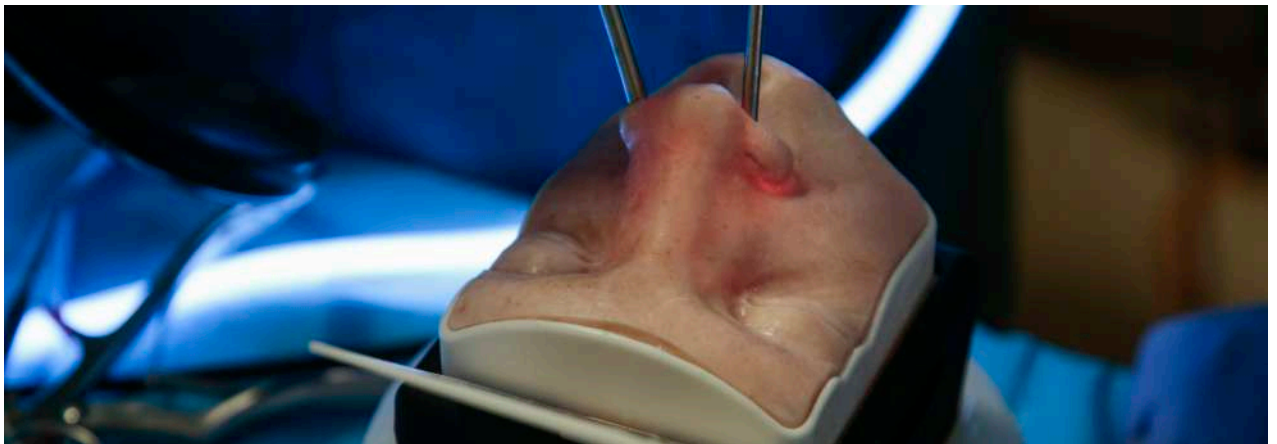
How it is composed



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



How it works

Reusable and Disposable Cavities

TNS Box

Reusable Cavity Included



What can I do AT HOME

Using the tools included in the BrainBox 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 infinite times

TNS Disposable Cavity



What can I do in a Lab

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

Disposable Cavities

Disposable Cavities Prepare the nasal cavities and perform an adenoma resection tumor. 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



Neurosurgery App



Augmented Reality

TNS Box works with an *Augmented Reality* app to provide a 360° training experience.

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



What is included

- White base for patient positioning
- 1x Spatula
- 1x Bayonet Forceps
- 1x AR Marker for Augmented Reality App
- 1x Mobile Navigation Kit
- 1x Lubricant
- 1x Microsurgical Dissector
- 1x Microsurgical tissue forceps
- 1x Led Endoscope compatible with Android, Windows PC and MacOS
- 1x 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 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.

Reach out to us

If you wish to acquire further information, please contact us at the following contact details according to your country of origin.

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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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