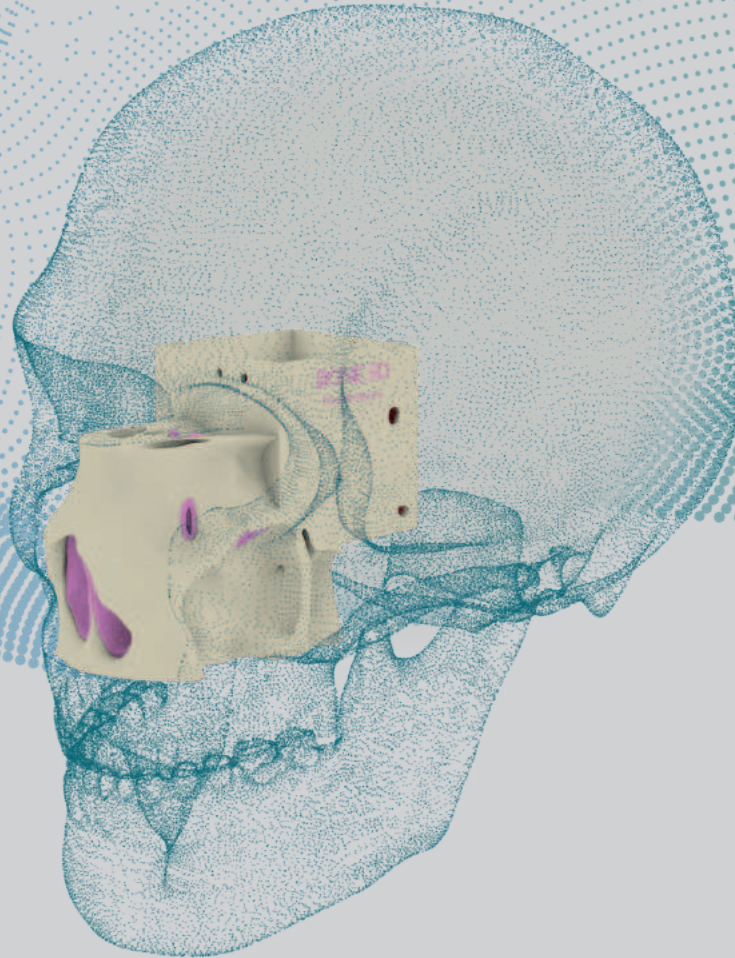


TRAIN
ENDONASAL –
PITUITARY ADENOMA by BONE 3D

**Our 3D-printed training models
designed for surgeons' formation**

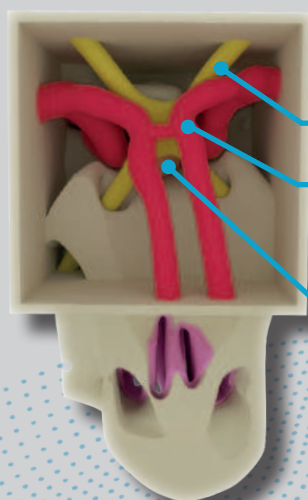


BONE 3D

PERSONALIZED MEDICINE

Product Description

Included Structures

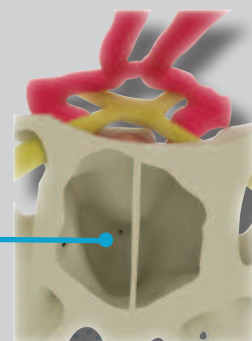


Optic nerve

Internal carotids

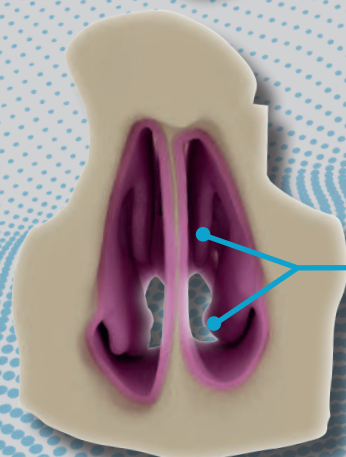
Pituitary gland
&
Pituitary
Adenoma.

Sphenoidal
Sinus



Dimensions :

4.5 cm * 6.9 cm * 9.6 cm



Turbinates



Target Surgery : Endoscopic Endonasal
Transsphenoidal surgery

Pathology : Pituitary adenoma

The simulators are printed in multi-material making the simulation experience realistic in term of sensation.

MICRO ADENOMA



The tumor, in **blue**, is located inside the pituitary gland

MACRO ADENOMA



The tumor, in **blue**, is located inside **and** above the pituitary gland

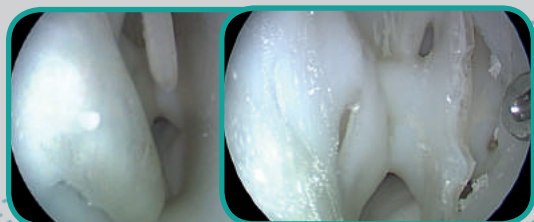
CRANIOPHARYNGIOMA



The tumor, in **blue**, is located above the pituitary gland

Inside the simulator

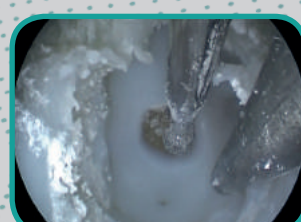
It is possible to perform the different steps of the surgery on the simulator :



1 Nasal navigation, turbinectomy and septum luxation



2 Sphenoidotomy



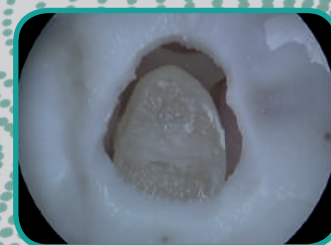
3 Sellar opening



4 Pituitary Incision & Adenoma Removal

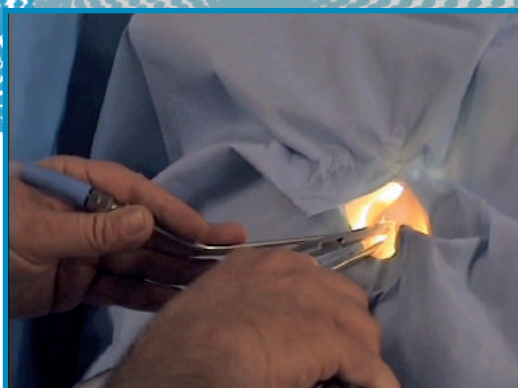


5 Exploration of resection cavity



6 Extended approach

Training on a Micro Adenoma model



A surgeon performing the surgery on the simulator in a realistic environment inside an operating room.

The simulator is composed of a **disposable cartridge** which can be plugged on a reusable support. Thus, the simulation can be performed in every kind of environment.



BONE 3D is specialized in the manufacturing of personalized 3D printed medical devices. BONE 3D combines the knowledge of doctors, engineers and surgeons aware of the usefulness of 3D printing in medical applications.

From this partnership was born our first product: C-RHINO® - a splint for a nose surgery wether plastic or reconructive.

We also offer personalized maxillary and mandibular repositioning gutters, anatomical models, surgery simulators and many other solutions for human and veterinary medicine.

You may contact us for further information.

BONE 3D

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