1st LAUSANNE NET Lab SKULL BASE COURSE: 3D PRINTED HEAD MODELS WITH TUMORS

THE EUROPEAN ASSOCIATION OF NEUROSURGICAL SOCIETIES

COURSE DIRECTOR

Prof. Roy Thomas Daniel. Lausanne, SWITZERLAND

LOCAL FACULTY

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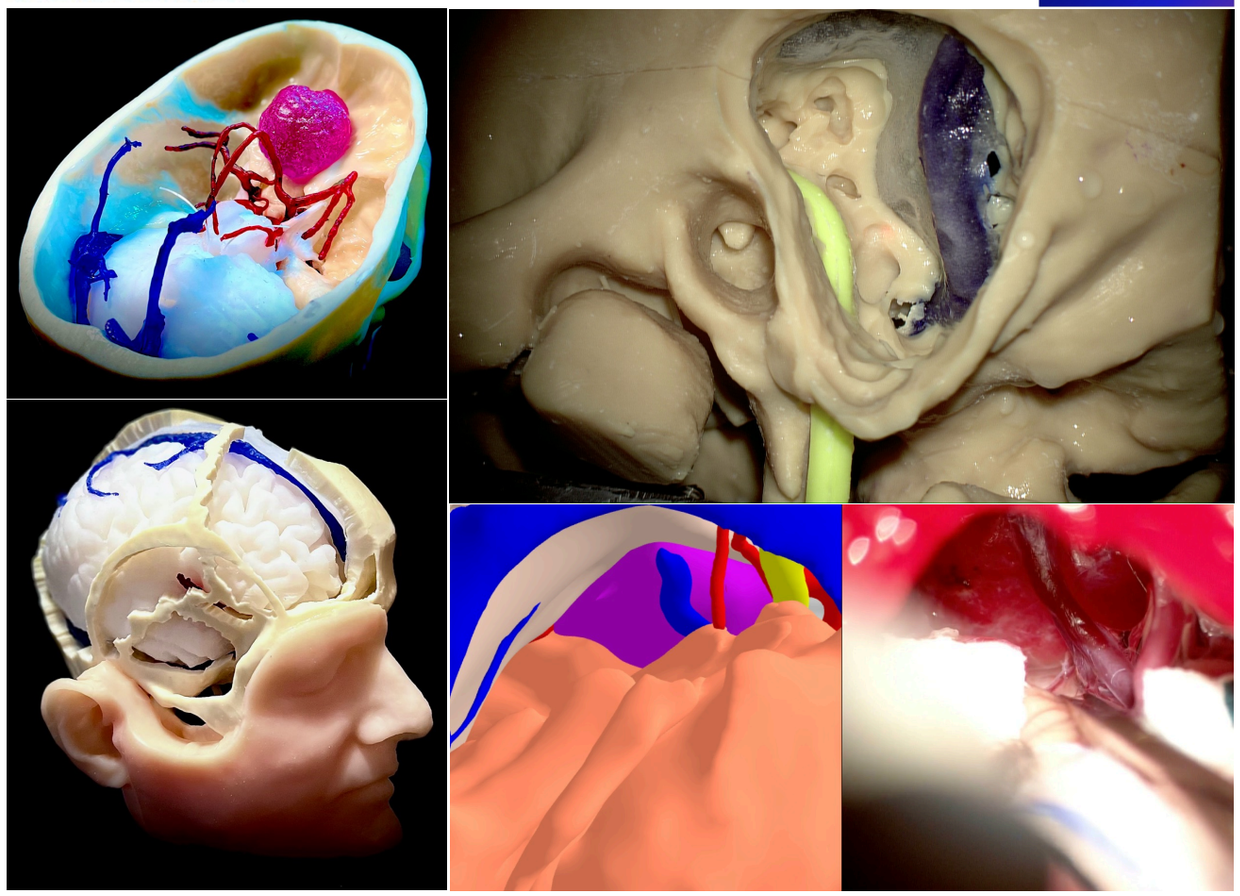


Course Endorsements:
European Association of Neurosurgical societies
International Academy of Neurosurgical Anatomy

COURSE FEES:
Euros 1200 including lunch, refreshments and the social course dinner.
10% discount is offered to EANS members.

ACCOMODATIONS:
Rooms have been pre-reserved near the course venue

Registration/accomodation:
Pr. Roy Thomas Daniel roy.daniel@chuv.ch,
Ms. Myriam Annabi myriam.annabi@chuv.ch

This course will provide a hands-on training on skull base surgery using 3D printed models. The models have printed tumoral pathologies such as clinoidal meningioma, vestibular schwannoma, petroclival chordoma and pineal tumor. There are lectures from renowned faculty on neuroanatomy, trans-cranial approaches and treatment of these tumors. The trainees will be guided to study, discuss, plan and perform the surgery, step by step, on the 3D printed models. Instructors will show how to use the regular neurosurgical instruments (drills, ultrasonic aspirators, microscope and nerve stimulation) on the models (2 trainees per model) that are almost lifelike. These models are printed based on radiological data of real cases rendering the anatomy and pathology to accurately reflect the real scenario. The models include nerves with implanted wires that enable electrical stimulation during dissection. The anatomy of the tumors will be also analyzed on a virtual reality environment. The clinical presentation, radiology, intraoperative videos and outcomes of each case will be presented to the trainees to give context to the lab training. Therefore, this training will be as close as possible to the real scenario, a fact that is a distinct advantage over the current gold standard namely cadaveric courses for training in skull base surgery.

27th - 28th May 2024

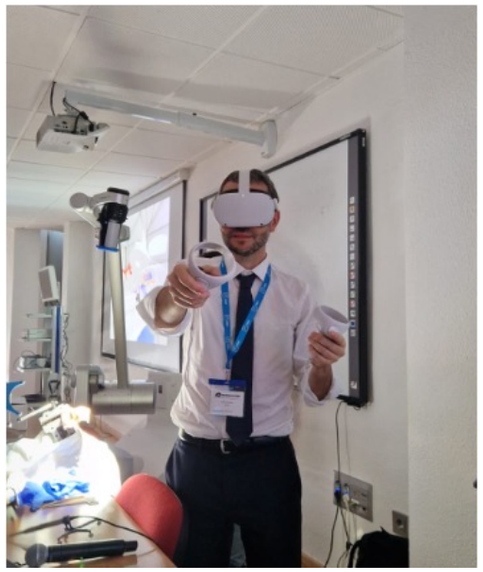
Lausanne University Hospital
Rue du Bugnon 46, Lausanne 1011, Switzerland

ZEISS Baxter NSL medical stryker

Monday 27th May

Anterolateral skull base surgery: TS meningioma

Lectures: 8.00-9.30
Neuroanatomy for anterolateral skull base surgery
Pterional craniotomy and FTOZ
Extradural anterior clinoidectomy
Radiosurgery for skull base tumors as adjuvant therapy
Case presentation (clinical, radiology and intraop video)
Lab 10.00-1 pm: Anterolateral skull base approach



Anterior Petrosectomy: Petroclival chordoma

Lectures: 2.00-3.00 pm
Neuroanatomy of the middle fossa and petrous apex
Technique of Anterior Petrosectomy
Case presentation (clinical, radiology, operative video)
Lab 3.00-6.00 pm: Anterior petrosal approach

Tuesday 28th May

Posterior fossa surgery: Vestibular schwannoma

Lectures: 8.00-9.30
Neuroanatomy of the CP angle including petrous bone
Retrosigmoid approach
Petrosal approaches
Case presentation (clinical, radiology and intraoperative video)
Lab 10.00-1.00 pm: Retrosigmoid and trans-lab approach

Pineal region tumor

Lectures: 2.00-2.30 pm
Neuroanatomy of the pineal region
Approaches to pineal region
Case presentation (clinical, radiology and intraoperative video)
Lab 3.00-5.00 pm: Occipito-transtentorial /Supra cerebellar infratentorial approach

17.30: Course evaluation, Delivery of certificate of attendance