



THE EUROPEAN ASSOCIATION
OF NEUROSURGICAL SOCIETIES



INTERNATIONAL FACULTY

EANS SKULL BASE COMMITTEE
INTERNATIONAL ACADEMY OF NEUROSURGICAL ANATOMY

LOCAL FACULTY

Pr. ROY THOMAS DANIEL

Dr. MAHMOUD MESSERER

Dr. LORENZO GIAMMATTEI

Dr. DANIELE STARNONI

Dr. MERCY GEORGE

Dr. GIULIA COSSU



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



Course Endorsements:

European Association of Neurosurgical societies
International Academy of Neurosurgical Anatomy

COURSE FEES:

Euros 1200 including lunch, refreshments and gala dinner.
10% discount is offered to EANS members.

ACCOMODATIONS:

Rooms can be pre-reserved near the course venue

Registration:

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 from a 360° perspective using 3D printed models. The models have printed tumoral pathologies such as clinoidal meningioma, vestibular schwannoma, petroclival chordoma and pineal tumor. There will be lectures from renowned faculty on neuroanatomy along with the 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, CUSA, 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.

23rd – 24th May 2025

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



Friday 23rd May

Anterolateral skull base surgery: TS meningioma

Lectures: 8.00-9.30

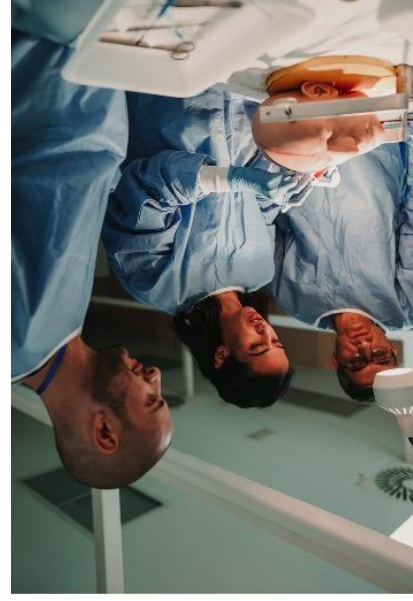
Neuroanatomy for anterolateral skull base surgery

Pterional craniotomy and FT0Z

Extradural anterior clinoidectomy

Radiotherapy 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

Saturday 24th 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/or trans lab approach



Supracerebellar space : Falco tentorial meningioma

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/SCIT approach

17.30: Course evaluation, Delivery of certificate of attendance