

FACULTY

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3DNEUROANATOMY

INTRINSIC BRAIN LESIONS:
THE CEREBRAL SUBSTANCE, VENTRICULAR SYSTEM,
CEREBELLUM & BRAINSTEM.
ANATOMY & SURGICAL APPROACHES

ORGANIZED BY

DEPARTMENT OF NEUROSURGERY HOSPITAL GENERAL DE ALICANTE
DEPARTMENT OF HISTOLOGY AND ANATOMY SCHOOL OF MEDICINE CAMPUS DE SAN JUAN (UMH)



More information:
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2nd-4th March 2017
ALICANTE (SPAIN)

THURSDAY 2nd

MORNING - 3D THEATER

- Course introduction and welcome. Phylogenetic evolution of the CNS. A surgical perspective.
- Sulco-gyral architecture and the craniometric points of the skull. The cerebral lobes.
- The opercular region and Sylvian fissure. Anatomy and surgery.
- Brain plasticity applied to subcortical cerebral tumors.

Coffee break

- The white matter of the human brain. Surgical implications.
- Limbic and paralimbic tumors. Anatomy and related surgical approaches.
- Epilepsy surgery. The importance of surgical planning.
- The insular lobe. Anatomy and surgery.
- Awake surgery. From the decision to the wound closure.

Lunch break

LABORATORY STATIONS:

STATION 1: (90 minutes). Brain mapping

STATION 2: (45 minutes). OsiriX. Brain surface

STATION 3: (45 minutes). Limbic and Paralimbic surgical anatomy

FRIDAY 3rd

MORNING - 3D THEATER

- Arachnoid cysts surgical management.
- Diencephalic fiber tracts and deep nuclei. Dissection technique, anatomy and surgical implications.
- Deep brain stimulation imaging-based targets.
- Pineal gland and neighbor structures surgical anatomy.

Coffee break

- The supratentorial ventricular system anatomy.
- Image-guided surgery for deep-seated lesions.
- Intraventricular tumors surgery. Endoscopic assisted microsurgery.
- Endoscopic third ventriculostomy. Relevant anatomy and indications.
- Pure neuroendoscopic hippocampo-amigdalectomy. An anatomical experimental study.

Lunch break

LABORATORY STATIONS

STATION 1: (90 minutes). Cerebellum and brainstem

STATION 2: (45 minutes). StealthViz Planning station. The role of surgical planning

STATION 3: (45 minutes). Intraventricular endoscopic anatomy and approaches

SATURDAY 4th

- Brainstem and cerebellum surgical anatomy.
- Endoscopic surgical modalities in and around the posterior fossa contents.
- The cerebellopontine angle cranial nerves and posterior fossa cisterns. Anatomy and surgery.

Coffee break

- Brainstem cavernous malformations. Safe surgical corridors.
- Cerebellovermian intrinsic tumors.
- Fourth ventricle anatomy and surgery.

CLOSURE

