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3DNEUROANATOMY

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

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:

STA TION 1: (90 minutes). Brain mapping
STA TION 2: (45 minutes). OsiriX. Brain surface
STA TION 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

STA TION 1: (90 minutes). Cerebellum and brainstem
STA TION 2: (45 minutes). StealthViz Planning station. The role of surgical planning
STA TION 3: (45 minutes). Intraventricular endoscopic anatomy and approaches

SUNDAY 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