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3DNEUROANATOMY

Intrinsic brain anatomy and surgical approaches

ALICANTE 5-7/MARCH/2020

3DN

3DN2020

THURSDAY 5th

MODULE 1: Surface Surgical Anatomy.

- Phylogenetic evolution of the human brain.
- The cerebral lobes.
- Craniometric points of the skull.
- Brain surface functional understanding through intraoperative mapping.

MODULE 2: The Cerebral Substance (I).

- The white matter of the human brain.
- Lateral dorsal & ventral tracts.
- How I do it: awake surgery.
- Technical adjuncts for glioma surgery.
- How I do it: endoscopic assisted glioma surgery.

SURGICAL STATION 1: Hands-On.

- Intrinsic brain tumor resection on a 3D printed model.

SURGICAL STATION 2: Break-out Session.

- The case for discussion: INSULAR GLIOMA.

SURGICAL STATION 3: Quiz Session.

- Sulco-gyral organization and cortical 3D understanding based on real cases.

FRIDAY 6th

MODULE 3: The Cerebral Substance (II).

- Limbic and paralimbic areas.
- How I do it: limbic and paralimbic tumors.
- The central core of the human brain.
- How I do it: DBS surgery.

MODULE 4: The Supratentorial Ventricular System.

- Surgical anatomy of the lateral ventricles.
- Surgical anatomy of the third ventricle.
- How I do it: intraventricular tumors.
- How I do it: endoscopic third ventriculostomy.
- The pineal region surgical anatomy.

SURGICAL STATION 4: Hands-On.

- Intrinsic brain tumor resection on a 3D printed model.

SURGICAL STATION 2: Hands-On.

- Brainstem & cerebellum white matter dissection.

SATURDAY 7th

MODULE 5: Brainstem & Cerebellum.

- Brainstem functional anatomy.
- Brainstem and cerebellum 3D anatomical understanding.
- The posterior fossa cranial nerves.
- Cerebellovermian tumors surgical implications.
- How I do it: fourth ventricle tumors.

MODULE 6: Epilepsy & Neuromodulation.

- How I do it: brainstem cavernous malformations.
- The temporomesial region. Surgical anatomy for amygdalohippocampectomy.
- How I do it: disconnective surgery.
- How I do it: intractable multifocal epilepsy.
- Neuromodulation in blind patients. A present clinical trial.