WFNS NEUROANATOMY COMMITTEE

- **Meeting Name:** 3DNEUROANATOMY & NEUROSURGICAL APPROACHES WFNS COURSE. 14th international edition

- **Title:** INTRINSIC BRAIN ANATOMY & SURGICAL APPROACHES

- **Dates:** 5th-7th March 2020

- **Website:** [https://3dneuroanatomy.com/3dneuroanatomy-neurosurgical-approaches-course-2020-14th-international-edition/](https://3dneuroanatomy.com/3dneuroanatomy-neurosurgical-approaches-course-2020-14th-international-edition/)

- **Organizers:** Pablo González-López, Javier Abarca, Víctor Fernández. Department of Neurosurgery. Hospital General Universitario Alicante. SPAIN

- **Other collaborations:** SENEC (Spanish Society of Neurosurgery)

- **PROGRAM:**

  Thursday 5th March 2020

**MODULE 1: Surface Surgical Anatomy.**

- Phylogenetic evolution of the human brain. *Pablo González*
- The cerebral lobes. *Matías Baldoncini*
- Craniometric points of the skull. *Víctor Fernández*
- Brain surface functional understanding through intraoperative mapping. *Luis Jiménez*

**MODULE 2: The Cerebral Substance (I).**

- The white matter of the human brain. *Igor Maldonado*
- Lateral dorsal & ventral tracts. *Juan Martino*
- How I do it: awake surgery. *Luis Jiménez*
- Technical adjuncts for glioma surgery. *Stefan Wolfsberger*
- How I do it: endoscopic assisted glioma surgery. *Puneet Plaha*

**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. Igor Maldonado

Friday 6th March 2020

MODULE 3: The Cerebral Substance (II).
- Limbic and paralimbic areas. Ruben Rodríguez
- How I do it: limbic and paralimbic tumors. Pablo González
- The central core of the human brain. Igor Maldonado
- How I do it: DBS surgery. Antonio Gutiérrez

MODULE 4: The Supratentorial Ventricular System.
- Surgical anatomy of the lateral ventricles. Javier Abarca
- Surgical anatomy of the third ventricle. Thomas Santarius / Ramez Kirollos
- How I do it: intraventricular tumors. Thomas Santarius / Ramez Kirollos
- How I do it: endoscopic third ventriculostomy. Víctor Fernández
- The pineal region surgical anatomy. Thomas Santarius / Ramez Kirollos

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 March 2020

MODULE 5: Brainstem & Cerebellum.
- Brainstem functional anatomy. Stefan Wolfsberger
- Brainstem and cerebellum 3D anatomical understanding. Ruben Rodríguez
- The posterior fossa cranial nerves. Pablo González
- Cerebellovermian tumors surgical implications. Victor Fernández
- How I do it: fourth ventricle tumors. Javier Abarca

MODULE 6: Epilepsy & Neuromodulation.
- How I do it: brainstem cavernous malformations. Roy Thomas Daniel
- The temporomesial region. Surgical anatomy for amygdalohippocampectomy. Thomas Santarius / Ramez Kirollos
- How I do it: disconnective surgery. Albert Sufianov
- How I do it: intractable multifocal epilepsy. Roy Thomas Daniel
- Neuromodulation in blind patients. A present clinical trial. Eduardo Fernández