

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/>
- *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*