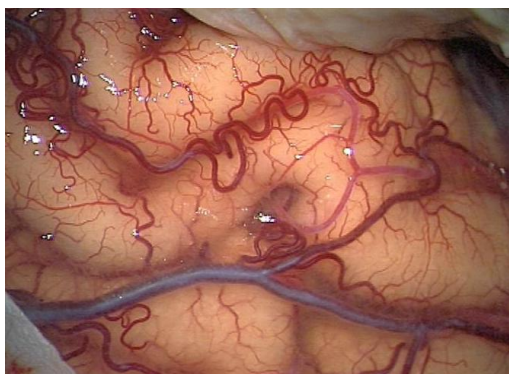


# 3rd HANDS-ON COURSE OF NEUROSURGICAL APPROACHES

## Cerebral sulci, fissures and gyri



Valencia, June 28/july 02, 2010

Department of Neurosurgery  
Hospital Clínico Universitario  
Valencia, Spain

Course Co-Directors:  
**Evandro de Oliveira**  
**José M González-Darder**

### SESSION 1

June 28

#### CEREBRAL CORTEX 1

08,30-09,00	Structural and functional organization of the cerebral cortex	GUILHERME RIBAS
09,00-10,00	Craniometric anatomy	GUILHERME RIBAS
10,30-13,30	LABORATORY: <ul style="list-style-type: none"><li>- Craniometric landmarks</li><li>- Cranial localization of sulci/fissures/gyri in cadaveric specimens with marks</li><li>- Skull resection</li></ul> NEURONAVIGATION SIMULATIONS: <ul style="list-style-type: none"><li>- Localization of sulci/fissures/gyri in cadaveric specimens comparing craniometric and navigation techniques</li></ul>	ALL FACULTY MEMBERS

### SESSION 2

June 28

#### CEREBRAL CORTEX 2

15,30-16,00	Anatomical localization of cortical function and its subcortical connectivity by means of navigated transcranial magnetic stimulation	JOSEP ESPADALER
16,00-17,00	Anatomy of cerebral sulci, fissures and gyri	CAROLINA MARTINS
17,30-20,30	LABORATORY: <ul style="list-style-type: none"><li>- Duramater removal</li><li>- Identification of sulci/fissures/gyri</li><li>- Correlation with craniometric landmarks</li><li>- Trans-sulcal microsurgical approach</li></ul> NEURONAVIGATION SIMULATIONS: <ul style="list-style-type: none"><li>- Localization of sulci/fissures/gyri in cadaveric specimens comparing craniometric and navigation techniques</li></ul>	ALL FACULTY MEMBERS

### SESSION 3

June 29

#### SYLVIAN FISSURE

08,30-09,00	Microsurgical anatomy of Sylvian fissure and middle cerebral artery	EVANDRO DE OLIVEIRA
09,00-10,00	Opening of the Sylvian fissure and surgical applications	EVANDRO DE OLIVEIRA
10,30-13,30	LABORATORY: <ul style="list-style-type: none"><li>- Sylvian fissure dissection</li><li>- Middle cerebral artery dissection</li><li>- Aneurysmal clipping simulation</li><li>- Hypocampectomy</li></ul>	ALL FACULTY MEMBERS

### SESSION 4

June 29

#### TENTORIAL INCISURE AND PINEAL

15,30-16,00	Microsurgical anatomy of the pineal region and tentorial incisure	EVANDRO DE OLIVEIRA
16,00-16,30	Magnetic resonance imaging of pineal tumours	JOSÉ L LEÓN-GUIJARRO
16,30-17,00	Surgery of pineal region lesions	EVANDRO DE OLIVEIRA
17,30-20,30	LABORATORY: <ul style="list-style-type: none"><li>- Pineal region dissection</li><li>- Tentorial incisure dissection</li></ul>	ALL FACULTY MEMBERS

**SESSION 5**  
June 30

**INTERHEMISPHERIC FISSURE**

08,30-09,00	Microsurgical anatomy of the interhemispheric fissure and precentral lobe	CAROLINA MARTINS
09,00-09,30	Pathology of intraventricular tumours	MIGUEL CERDÁ-NICOLÁS
09,30-10,00	Microsurgical approaches to the ventricles	EVANDRO DE OLIVEIRA
10,30-13,30	LABORATORY: <ul style="list-style-type: none"><li>- Interhemispheric fissure dissection</li><li>- Precentral lobe dissection</li><li>- Transcallosal approaches</li></ul>	ALL FACULTY MEMBERS

**SESSION 6**  
June 30

**VERBAL & MOTOR ELOQUENT AREAS**

15,30-16,00	Preoperative localization of eloquent cortical areas with functional MRI	CÉSAR ÁVILA
16,00-16,30	Intraoperative neurophysiological monitorization of motor eloquent areas	VICTORIA CORTÉS-DOÑATE
16,30-17,00	Microsurgery of intrinsic cerebral tumors located in motor eloquent areas	JOSÉ M GONZALEZ-DARDER
17,30-20,30	LABORATORY: <ul style="list-style-type: none"><li>- Localization and dissection of central sulcus and precentral and postcentral gyri</li><li>- Localization and dissection of frontal operculi</li></ul> NEURONAVIGATION SIMULATIONS: <ul style="list-style-type: none"><li>- Localization of sulci/fissures/gyri in cadaveric specimens comparing craniometric and navigation techniques</li></ul>	ALL FACULTY MEMBERS

**SESSION 7**  
July 01

**SUBCORTICAL WHITE MATTER 1**

08,30-09,00	Cerebral white fibers anatomy and neurophysiology	FRANCISCO MARTÍNEZ-SORIANO
09,00-10,00	Cerebral white fibers dissection (lateral, medial and basal cerebral)	UGUR TÜRE
10,30-13,30	LABORATORY: <ul style="list-style-type: none"><li>- White fibers dissection (lateral) and insula</li><li>- White fibers dissection (medial and basal)</li></ul> PLANNIFICATION STATION SIMULATIONS: <ul style="list-style-type: none"><li>- Tractography</li></ul>	ALL FACULTY MEMBERS

**SESSION 8**  
July 01

**SUBCORTICAL WHITE MATTER 2**

15,30-16,15	Cerebral white fibers anatomy by tractography	ALBERTO PRATS-GALINDO
16,15-17,00	Cerebral white fibers dissection (lateral, medial and basal)	UGUR TÜRE
17,30-20,30	LABORATORY: <ul style="list-style-type: none"><li>- White fibers dissection (lateral) and insula</li><li>- White fibers dissection (medial and basal)</li></ul> PLANNIFICATION STATION SIMULATIONS: <ul style="list-style-type: none"><li>- Tractography</li></ul>	ALL FACULTY MEMBERS

**SESSION 9**  
July 02

**INSULA**

08,30-09,00	Microsurgical anatomy of the insula	UGUR TÜRE
09,00-09,30	Intraoperative anatomical navigation and functional monitorization of the insula	GERARDO CONESA
09,30-10,00	Surgery of insular tumours	UGUR TÜRE
10,30-13,30	LABORATORY: <ul style="list-style-type: none"><li>- Dissection of the insula</li></ul>	ALL FACULTY MEMBERS

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