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NEUROANATOMY

BRAINSTEM INTRINSIC LESIONS & POSTERIOR FOSSA APPROACHES



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31st May - 2nd June 2023

DEPARTMENT OF NEUROSURGERY.
HOSPITAL GENERAL UNIVERSITARIO ALICANTE
ALICANTE, SPAIN

WEDNESDAY 31st MAY

3D THEATER

7.45am. Welcome.

8.00-8.25am. **ANATOMICAL ASPECTS (I)**. Bones, venous sinuses and dural layers in the posterior fossa. *Igor Maldonado*

8.30-8.55am. **ANATOMICAL ASPECTS (II)**. Cerebellum and brainstem anatomy. *Stefan Wolfsberger*

9.00-9.25am. **ANATOMICAL ASPECTS (III)**. Vascular anatomy of the posterior fossa. *Elena Baño / Juan Nieto*

9.30-9.55am. **ANATOMICAL ASPECTS (IV)**. Radiological anatomy of the posterior fossa vessels. *Igor Maldonado*

10.00-10.30am. COFFEE BREAK

10.30-10.55am. **INTRODUCTION**. The posterior fossa compartments. Choosing how to reach the posterior fossa. *Víctor Fernández*

11.00-11.25am. **POSTERIOR APPROACHES (I)**. Fourth ventricle anatomy and surgical concepts. *Javier Abarca*

11.30-11.55am. **POSTERIOR APPROACHES (II)**. Cerebello-vestibular intrinsic tumors. Medial & paramedial suboccipital approaches. *Thomas Santarius*

12.00-12.25pm. **POSTERIOR APPROACHES (III)**. Microsurgical, endoscopic, endoscope-assisted and purely endoscope-controlled approaches to the pineal tumors. *Samer Elbabaa*

12.30-12.55pm. **POSTERIOR APPROACHES (IV)**. Tectal lesions. Supracerebellar infratentorial & occipital interhemispheric transtentorial approaches. *Thomas Santarius*

1.00-2.00pm. LUNCH

HANDS-ON & VIRTUAL REALITY STATIONS

STATION 1: The skull base bony structures

STATION 2: Cases discussion (4th ventricle tumors). Anatomy & surgical planning

STATION 3: Petrous bone drilling station. VR and Hands-on

THURSDAY 1st JUNE

3D THEATER

8.00-8.25am. **POSTEROLATERAL APPROACHES (I)**. Cerebellopontine angle & tentorial incisura anatomy. Lateral suboccipital approach. *Pablo González*

8.30-8.55am. **POSTEROLATERAL APPROACHES (II)**. Endoscopic assisted microsurgery in the cerebellopontine angle. *Henry Schroeder*

9.00-9.25am. **POSTEROLATERAL APPROACHES (III)**. Posterior fossa aneurysms and other vascular lesions. *Ramez Kirillos*

9.30-9.55am. **POSTEROLATERAL APPROACHES (IV)**. Surgical approaches to the jugular foramen. *Luis Borba*

10.00-10.30am. COFFEE BREAK

10.30-10.55am. **ANTEROLATERAL APPROACHES (I)**. The petrous bone anatomy. *Pablo González*

11.00-11.25am. **ANTEROLATERAL APPROACHES (II)**. Surgical anatomy and safe entry zones to the brainstem. *Matias Baldoncini*

11.30-11.55am. **ANTEROLATERAL APPROACHES (III)**. Intertentorial approaches: a renaissance for petrosectomy? *Roy T. Daniel*

12.00-12.25pm. **ANTEROLATERAL APPROACHES (IV)**. Endoscope assisted microsurgical management of brain and skull base tumors. *Samer Elbabaa*

12.30-12.55pm. **ANTEROLATERAL APPROACHES (V)**. Petroclival region Anatomy. Different approaches: anterior transpetrosal, presigmoid & retrosigmoid suprameatal approaches. *Alvaro Campero*

1.00-1.25pm. **POSTEROLATERAL APPROACHES (V)**. Foramen magnum anatomy. Far lateral approach and variations. *Alvaro Campero*

1.30-2.30pm. LUNCH

HANDS-ON & VIRTUAL REALITY STATIONS

STATION 4: Cerebellopontine angle anatomy: 3D & virtual reality

STATION 5: Cases discussion (Petroclival meningiomas). Anatomy & surgical planning

STATION 6: Cerebellopontine angle & supracerebellar epidermoid lesions. Hands-on

FRIDAY 2nd JUNE

3D THEATER

8.30-8.55am. **ANTERIOR APPROACHES (I)**. Nasal and paranasal anatomy. *Irene Monjas*

9.00-9.25am. **ANTERIOR APPROACHES (II)**. Expanded pure endoscopic endonasal approach for midline clival lesions. *Ariel Kaen*

9.30-9.55am. **ANTERIOR APPROACHES (III)**. Clival chordomas. *Henry Schroeder*

10.00-10.30am. COFFEE BREAK

10.30-10.55am. **ANTERIOR APPROACHES (IV)**. Lateral extension of the endoscopic endonasal approach in the coronal plane: petrous apex, Meckel's cave and other transpterygoid routes. *Ariel Kaen*.

11.00-11.25am. **ANTERIOR APPROACHES (V)**. Endoscopic endonasal approach to classically "hidden" areas: petrous apex, cavernous sinus, retrosellar and retroclival regions. *Henry Schroeder*

11.30-11.55am. **ANTERIOR APPROACHES (VI)**. Endoscopic endonasal approach to the odontoid and the cranio-cervical junction. *Ariel Kaen*

12.00-12.25pm. **ANTERIOR APPROACHES (VII)**. Chordomas and Chondrosarcomas. How to deal with them. *Stefan Wolfsberger*

12.30-12.55pm. **ANTERIOR APPROACHES (VIII)**. Anterior compartment of the posterior fossa. Transcranial vs endonasal corridors. Lecture and Case discussion. *Javier Abarca*

1.00-2.00pm. LUNCH

HANDS-ON & VIRTUAL REALITY STATIONS

STATION 7: Endoscopic endonasal: 3D & virtual reality

STATION 8: Cases discussion (Petrous apex tumors). Anatomy & surgical planning

STATION 9: Clival chordoma. Hands-on