

SPEAKERS

Dr. Javier Abarca

Hospital General de Alicante (Alicante, Spain)

Dr. Miguel Angel Arraez

Hospital Universitario Carlos Haya (Málaga, Spain)

Dr. José Fernández Alén

Hospital Universitario 12 de Octubre (Madrid, Spain)

Dr. Francisco González Llanos

Complejo Hospitalario de Toledo. Virgen de la Salud (Toledo, Spain)

Dr. Victor Fernández Cornejo

Hospital General de Alicante (Alicante, Spain)

Dr. Pablo González-Lopez

Hospital General de Alicante (Alicante, Spain)

Dr. Jaime Lloret

Hospital General Universitario (Alicante. Spain)

Dr. Carlos Ruiz-Ocaña

Hospital Quirón de Madrid (Madrid, Spain)

Dr. Enrique Urculo

Hospital de Donostia (San Sebastián, Spain)



SOCIEDAD ESPAÑOLA DE NEUROCIRUGÍA | SENEC

IV SENEC HANDS-ON COURSE: MICROSURGICAL APPROACHES TO THE SKULL BASE IV CURSO/I CICLO



Organization: Sociedad Española de Neurocirugía (SENEC)

*Dr. Hinojosa. Secretary SENEC
Hospital Universitario 12 de Octubre*

*Dr. Ruiz Ocaña. President SENEC
Hospital Quirón de Madrid*

Coordination

Dr. LLoret. Hospital General de Alicante (Alicante. Spain)

Invited Faculty

Dr. Vincenzo Paternó (INI-Hannover, Germany)

**September 25th, 26th and 27th, 2014
Department of Human Anatomy
Faculty of Medicine. Campus San Juan. (Alicante)**

OBJECTIVES OF THE COURSE

The hands-on course has been designed to provide residents and neurosurgeons an opportunity to enhance their own skills in a variety of microsurgical approaches to the skull base.

At the end of the course, trainees should be familiar and confident with the:

- Anatomy of the anterior, lateral and posterior regions of the skull base
- Indications for the treatment of lesions
- Different corridors and surgical techniques to approach the skull base
- Avoidance and management of complications

Trainees will:

- Review and perform surgical approaches to the anterior, lateral and posterior skull base on cadaveric specimens, under the direction of renowned faculty
- Prepare for cadaveric dissection viewing surgical videos and faculty skills on specimens
- Discuss the surgical techniques and complexity of the various surgical skull base approaches, interacting with experts in the field.
- Discuss complication avoidance and management

The objectives will be met in part by performing the procedures on specially prepared cadavers:

- Comprehensive review of the microscopic anatomy of the skull base, including posterior fossa, middle fossa and petrous bone, anterior and anterolateral skull base.
- Discussion of the surgical decision making process in the management of the skull base surgical lesions.
- Description and demonstration of the step-wise approach in performing posterior, lateral and anterior skull base approaches.
- Hands-on microsurgical approaches to the skull base.
- Tutorial and video demonstration of anatomy and operative approaches.
- Prevention and management of complications during microsurgical procedures.



SCIENTIFIC PROGRAM

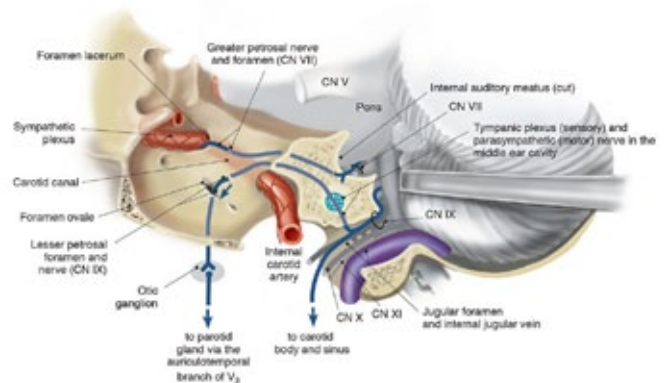
SESSION 1

Thursday, September 25th, 2014

POSTERIOR AND POSTEROLATERAL APPROACHES

- 09:00-09:10** Introduction to the course. **Dr. Hinojosa**
- 09:15-09:30** Lecture: 3D anatomy of posterior fossa and vertebral artery. **Dr. Abarca**
- 09:30-09:50** Lecture: Surgical approaches to lesions in and around the foramen magnum. **Dr. Paternó**
- 10:00-10:45** Anatomic demonstration. Retrosigmoid approach to the cerebello-pontine angle. **Dr. Urculo**
- 11:00-13:30** **LABORATORY.** Retrosigmoid approach.
TRAINEES AND FACULTY

Objectives: Microsurgical intradural approaches in cerebello-pontine angle: (a) jugular foramen; (b) internal auditory canal; (c) Meckel 's cave.



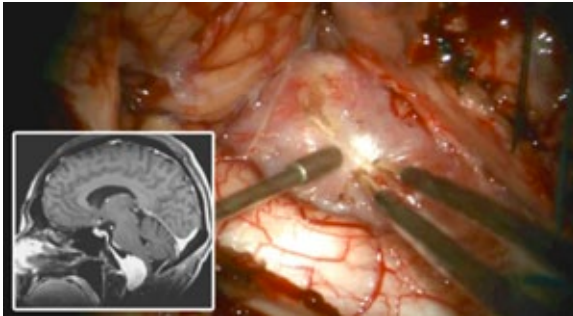
SESSION 2

Thursday, September 25th, 2014

POSTERIOR AND POSTEROLATERAL APPROACHES (cont.)

- 15:30-15:45** Lecture: Extradural posterolateral approaches. Indications. **Dr. Urculo**
- 16:00-17:00** Anatomic demonstration. Far lateral approach and transcondilar approaches. **Dr. Paternó**
- 17:00-19:30** **LABORATORY.** Far lateral and transcondilar approaches. **TRAINEES AND FACULTY**

Objectives: Comprehensive review of the anatomy and approaches to extradural lesions around foramen magnum and pathology situated in anterior third of the foramen magnum and jugular foramen.

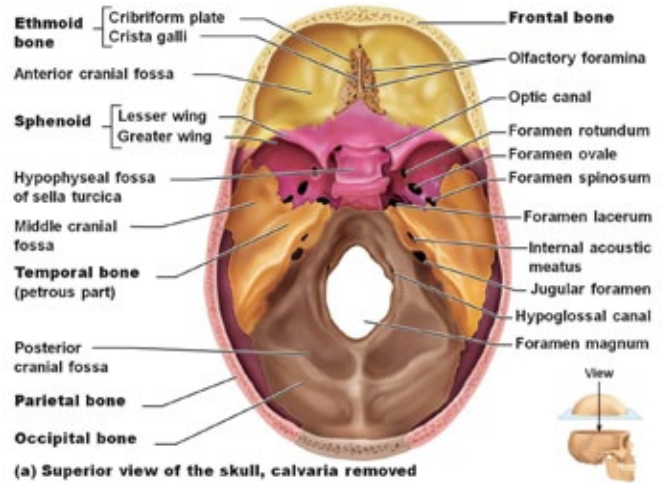


SESSION 3

Friday, September 26th, 2014

MIDDLE FOSSA AND LATERAL APPROACHES

- 08:00-08:20** Lecture: Surgical anatomy of petrous bone. **Dr. Fernández Cornejo**
- 08:30-09:00** Lecture. Middle fossa and anterior petrosal approach. **Dr. Arraez**
approach
- 09:00-09:15** Anatomic demonstration. Anterior petrosal approach. **Dr. Arraez**
approach
- 09:30-12:45** **LABORATORY.** Middle fossa and anterior petrosal approach. **TRAINEES AND FACULTY**
approach
- 13:00-13:30** Lecture: petroclival meningiomas. **Dr. Fernández Alén**



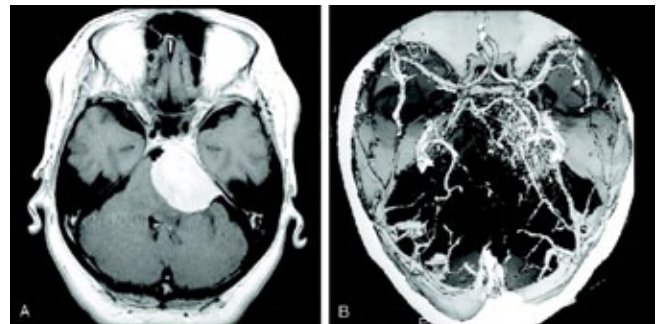
SESSION 4

Friday, September 26th, 2014

MIDDLE FOSSA AND LATERAL APPROACHES (cont.)

- 15:30-16:00** Lecture: Posterior petrosal approach and petrosectomy. **Dr. González-López**
- 16:00-17:15** Anatomic demonstration. Mastoidectomy and posterior petrosal approach. Petrosectomy. **Dr. González-López**
- 17:30-20:00** **LABORATORY.** Mastoidectomy and posterior petrosal approach. Petrosectomy. **TRAINEES AND FACULTY**

Objectives: Approaches to petroclival meningiomas and Meckel's cave tumours. Comprehensive review of anterior petrosal approach and avoidance of complications. Extended petrosectomies.



A. Axial contrast-enhanced T1-weighted image reveals a mass at the right petroclival region.
B. 3D-CT angiography showing the tumor and its adjacent vessels.

SESSION 5

Saturday, September 27th, 2014

ANTERIOR AND ANTEROLATERAL APPROACHES

- 08:15-08:30** Lecture: 3D anatomy of the orbit and anterior cranial fossa.
Dr. Abarca
- 08:30-08:50** Lecture: Anatomy of the internal carotid artery and dural rings. **Dr. Fernández Alén.**
- 09:00-09:45** Anatomic demonstration. Cranio-orbital-zygomatic approach.
Dr. Fernández Alén.
- 10:00-12:15** **LABORATORY.** Cranio-orbital-zygomatic approach.
TRAINEES AND FACULTY
- 12:30-13:30** Lecture. Cavernous and trans cavernous sinus approaches.
Dr. González Llanos

SESSION 6

Saturday, September 27th, 2014

ANTERIOR AND ANTEROLATERAL APPROACHES (cont.)

- 15:30-16:30** Anatomic demonstration. Clinoidectomy and superior trans cavernous approach. Lateral approaches to the cavernous sinus. **Dr. González Llanos**
- 16:30-18:30** Clinoidectomy and superior trans cavernous approach.
FACULTY AND TRAINEES
- 18:30-19:00** Anatomic demonstration. Subfrontal-transbasal interhemispheric approach. **Dr. Paternó**
- 19:00-20:30** Subfrontal interhemispheric approach.
FACULTY AND TRAINEES
- Objectives:** Knowledge of the main corridors to the pathology in the anterior fossa, paraclinoidal region and cavernous sinuses. Avoidance of complication. Extension of anterior- anterolateral approaches
- 20:30-21:00** **Adjourn and critical analysis of the course.** **Dr. Ruiz Ocaña**

