

## 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. Víctor 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 NEUROCIROGÍA | 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)**

## 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

## SCIENTIFIC PROGRAM

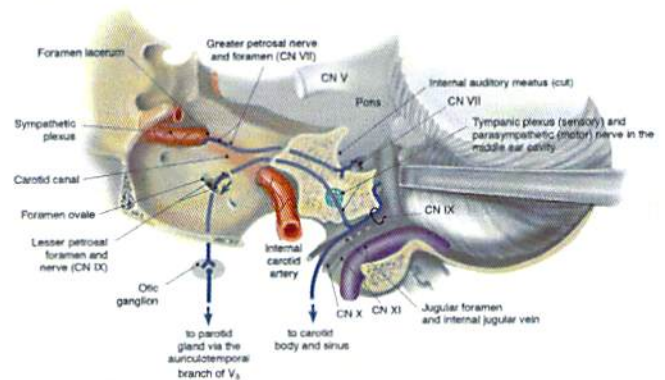
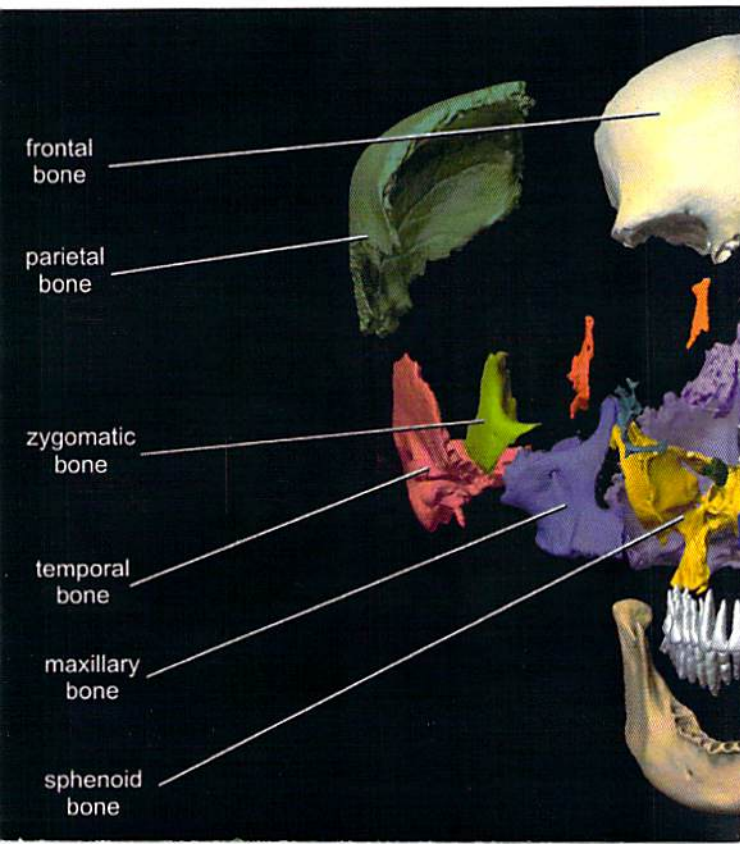
### SESSION 1

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
- 10:45 — CAFE
- 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.



13:30 COMIDA

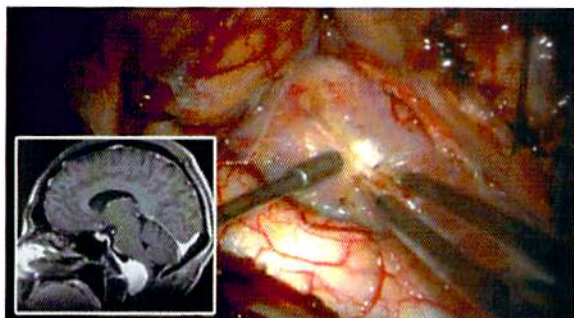
## SESSION 2

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.

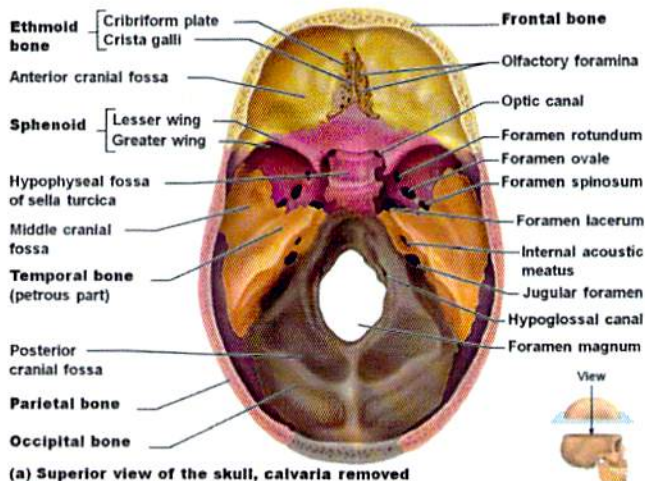


## SESSION 3

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
- 09:00-09:15 Anatomic demonstration. Anterior petrosal approach. Dr. Arraez
- 10:45 CAFE
- 09:30-12:45 **LABORATORY.** Middle fossa and anterior petrosal approach. TRAINEES AND FACULTY
- 13:00-13:30 Lecture: petroclival meningiomas. Dr. Fernández Alén



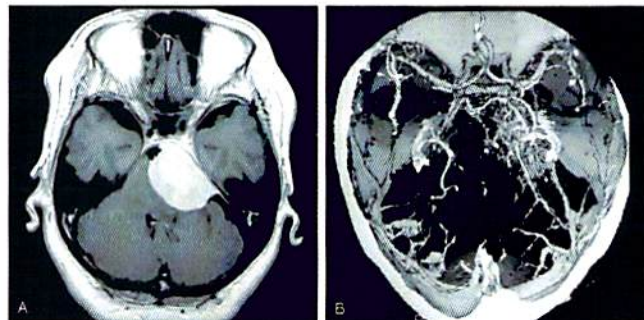
## SESSION 4

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.

## 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:**

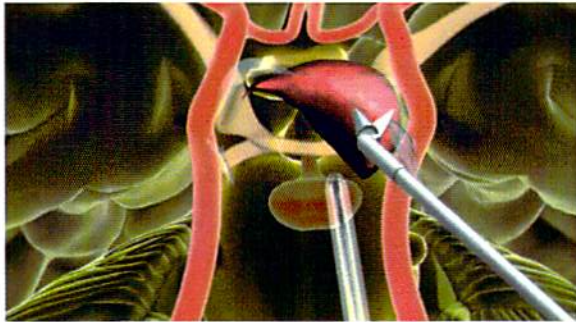
- Anatomy of the anterior, lateral and posterior regions of the skull base
- Indications for the treatment of lesions
- Different corridors and surgical techniques to approach the skull base
- Avoidance and management of complications

**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.



## SESSION 6

Saturday, September 27th, 2014

### ANTERIOR AND ANTEROLATERAL APPROACHES (cont.)

**15:30-16:30** Anatomic demonstration. Clinoidectomy and superior transcavernous approach. Lateral approaches to the cavernous sinus. **Dr. González Llanos**

**16:30-18:30** Clinoidectomy and superior transcavernous 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, paraclinoid 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**

