



EMORY  
UNIVERSITY  
SCHOOL OF  
MEDICINE

## CRANIAL BASE SURGERY COURSE

“A 360 DEGREE PERSPECTIVE”

HANDS-ON WORKSHOP

MARCH 14-16

# 2019

EMORY UNIVERSITY SCHOOL OF MEDICINE  
FACULTY OFFICE BUILDING  
49 JESSE HILL JR DRIVE SE  
ATLANTA, GA 30303

### COURSE DIRECTORS

- OSWALDO A. HENRIQUEZ, MD, FACS
- NELSON OYESIKU, MD, PHD, FACS
- GUSTAVO PRADILLA, MD, FAANS
- ARTURO SOLARES, MD
- ESTHER VIVAS, MD



To register online  
visit, <https://form.jotform.com/83044245292151>, or to register via your smartphone  
scan the QR Code to the left

If you have any questions or concerns,  
please contact Brittney Bettison at  
[bbetti2@emory.edu](mailto:bbetti2@emory.edu) or (404)778-1398

## **Course Description**

Ongoing advances in conventional microscopy, skull base endoscopy and recent developments in exoscopic techniques, as well as robotic-assisted visualization, have increased the enthusiasm for complex skull base techniques. Coupled with advanced pre-operative and intraoperative imaging capabilities our ability to tackle complex skull base pathologies continues to expand. Practicing neurosurgeons, ENT surgeons, and residents in training have incorporated some of these techniques in their surgical practice and have expressed an interest in these technical advances and their impact on operative technique and complication avoidance and management.

This three-day course will be conducted by skull base ENT and neurosurgeons who will address the theoretical basis of traditional skull base microsurgical techniques, discuss advanced expanded endoscopic techniques, introduce the concept of robotic-assisted exoscopic visualization and advanced neuro-imaging planning and navigation, and review case and technique selection as well as complication avoidance and management. Bioskills workshop sessions will be used to simulate procedures in a hands-on laboratory setting using preserved and injected cadaveric specimens.

Course attendees will have the benefit of expert colleagues providing lectures and videos illustrating the theoretical basis of the techniques presented, proctored dissections by the faculty and individual mentored dissections using state of the art technology. Additional instruction will be available for those attendees who would like to increase their understanding of white matter anatomy, MR-tractography, and DTI based neuronavigation and their use in port-based subcortical surgery. To allow the greatest educational experience, maximum enrollment in this course will be limited to 24 participants.

## **Intended Audience**

This hands-on workshop is designed for neurosurgery and otolaryngology medical providers at various stages of their careers including residents, fellows, attendings and neurosurgery team members, including nurse practitioners and physician assistants.

## **Objectives**

Upon completion of the workshop, participants should be able to:

- Discuss the anatomical basis of open and endoscopic skull base techniques, and describe the basic principles of microscopic, endoscopic, and exoscopic technique selection.
- Increase technical proficiency in a cadaveric setting and describe complication avoidance principles in skull base surgery
- Describe advanced skull base reconstructive techniques and management strategies for neuro-vascular injuries in skull base approaches.
- Understand the role of pre-operative DTI planning and robotic-assisted visualization in skull base approaches.

## **Course Date and Location**

All lecture and workshop sessions will be held on Emory's School of Medicine Grady campus: 49 Jesse Hill Jr Drive SE, Atlanta, GA 30303 from Thursday, March 14-16, 2019. Lectures will be in the Faculty Office Building on the 1st floor. The hands-on workshops will be held in Woodruff Ext Building 46 Armstrong Street Rm 220/221

## Registration

To register online, visit <https://form.jotform.com/83044245292151>. A maximum enrollment of 18 participants has been set so early registration is encouraged. Fees include the use of dissection labs, course syllabus, refreshment breaks, dinner on Thursday evening and complimentary transportation to and from the hotel. A letter of confirmation will be sent upon registration for the course.

Registration Fees:

Physicians	\$1,200.00
Residents/Others	\$650.00

## Cancellation Policy

Written cancellations received by February 1, 2019, will be refunded minus an administrative fee of \$100. No refunds will be made after February 15, 2019.

## Travel and Lodging Accommodations

The Westin Peachtree Plaza Atlanta

210 Peachtree St NW

Atlanta, GA 30303

Phone: 1-800-937-8461

website:

<https://www.starwoodmeeting.com/Book/emoryuniversitydepartmentofneurosurgery>

The Westin Peachtree Plaza Atlanta is offering hotel rooms for attendees and their guests at the following group rates plus applicable taxes.

King: \$189.00 per night

Double Queen: \$189.00 per night

In order to receive the special rate, identify yourself as a participant of the "Emory University Skull Base Workshop". Reservations must be made by Monday, February 11, 2019 or before the room block is filled, whichever comes first. There is limited guest room availability at the special rates; early reservations are based on availability. The standard hotel reservations cancellation policy will apply to all reservations. Attendees are responsible for their own reservations. Guests receive complimentary in-room internet service. Rooms are limited so we encourage early booking.

You may also wish to view [www.atlanta.net](http://www.atlanta.net) for additional accommodations as well as recreation and leisure activities.

Emory University is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

## Transportation

Transportation will be provided by Uber, utilizing our course discount code that will be given prior to arrival.

## Social Programs

Welcome Reception – Thursday, March 14, 2019

On Thursday evening, after the day's educational activities, join us for an evening at \_\_\_\_\_ for dinner and the opportunity for informal discussion with the program faculty. Transportation to and from dinner will be provided utilizing the course discount code within Uber from The Westin Peachtree Plaza Atlanta.

## Course Directors

Oswaldo A. Henriquez, MD, FACS

Nelson Oyesiku, MD, PhD, FACS

Gustavo Pradilla, MD, FAANS

Arturo Solares, MD

Esther Vivas, MD

## Faculty

Daniel Barrow, MD

Christopher Deibert, MD

John DelGaudio, MD

Douglas Mattox, MD

## Guest Faculty



### Ricardo Carrau, MD, FACS

- Director, Comprehensive Skull Base Surgery Program
- Co-Director, Research & Education Laboratory ALT-VISION

Ricardo L. Carrau, MD, FACS, joined the Department of Otolaryngology-Head and Neck Surgery Department at The Ohio State University as a tenured professor in April 2011. He is Director of the Comprehensive Skull Base Surgery Program and Co-director of the research and education laboratory ALT-VISION (Anatomy Laboratory Toward Visuo-Spatial Innovations in Otolaryngology and Neurosurgery). He also organizes, develops, and promotes the sialendoscopy and salivary disorders program and the swallowing disorders rehabilitation program.



### **Enrique Iturriaga, MD**

- Director, Rhinology and Skull Base Center
- Medical Director, Medtronic ENT

Enrique Iturriaga, MD studied medicine at Universidad Central Venezuela. He did Fellowships of Endoscopic Sinus Surgery and Skull base in France, Germany, and the United States. Former ex-President of several national and international Scientific Societies and co-coauthor of multiple scientific articles in the area of Rhinology. Dr. Iturriaga is also a continuous speaker at multiple conferences and courses in Rhinology and Skull Base.



### **Ben Panizza, MD**

- Director, Otolaryngology-Head and Neck Surgery at Princess Alexandra Hospital
- Chairman/Director, The Queensland Skull Base Unit, Princess Alexandra Hospital
- Director, Queensland Head and Neck Cancer Centre

Dr Panizza is a graduate of the University of Queensland and a professor of surgery in the Faculty of Medicine at UQ. After completing his specialist qualifications he undertook two years of fellowship training in Head and Neck/Skull Base Surgery in London then in Otology/Skull Base Surgery in Italy. He is active in clinical research being the lead investigator in a number of clinical trials and supervises numerous research higher degree students through the University of Queensland. Dr Panizza sits on the editorial boards of multiple journals and sits on the governing councils of both the International Federation of Head and Neck Oncologic Societies and the World Skull Base Society.





**Daniel Prevedello, MD**

- Director, Minimally Invasive Cranial Surgery Program and Pituitary Surgery Program
- Co-Director, Comprehensive Skull Base Surgery Center
- Professor, Neurological Surgery

Dr. Daniel Prevedello is the Director of the Skull Base and Pituitary Surgery Programs at the Wexner Medical Center at The Ohio State University and Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. Dr. Prevedello has been at OSU since July 2010 and was promoted to Professor in June 2017. He specializes in an endoscopic endonasal approach (EEA) for brain tumor removal, a minimally invasive neurosurgical technique that gives surgeons access to the base of the skull, intracranial cavity and top of the spine by operating via the nose and paranasal sinuses.



**Pablo Rubino, MD**

- Rhoton Fellow, Microsurgical Neuroanatomy, University of Florida
- Vice- Chairman, Neurosurgery. Hospital de Alta Complejidad. Buenos Aires, Argentina.
- Head Of Cerebrovascular section Fundación Favaloro, Buenos Aires, Argentina



**Frank Tomlinson, MBBS, MD, PhD, FRACS**

- Founder, Surgeons in the BrizBrain & Spine Neurosurgery and Orthopaedic Practice
- Associate Professor, Faculty of Medicine for Griffith University and Bond University.

Dr. Frank Tomlinson is a Neurosurgeon with sub-specialties in neurosurgery, spinal surgery, neuro-oncology and skull-based surgery. He completed his undergraduate medical training at the University of Queensland. He completed his advanced neurosurgery training at the Royal Brisbane Hospital. On completing his advanced neurosurgical training, Dr. Tomlinson worked for three years at the Mayo Clinic before returning to Australia to accept a position as a visiting neurosurgical consultant at the Royal Brisbane and Royal Children's Hospitals.

# PROGRAM AGENDA

## THURSDAY, MARCH 14- DAY 1

7:00-7:30A Registration and Continental Breakfast  
7:30-8:00 Welcome and Course Overview- All Faculty  
8:00-8:30 Endoscopic Skull Base Anatomy- Enrique Iturriaga  
8:30-9:00 Microsurgical Anatomy of the Anterior Cranial Fossa- Pablo Rubino

Hands-on: Proctored Session\*

9:00-11:00 Sphenoethmoidectomy/Maxillary Antrostomy/Frontal Sinus Drill Out- Enrique Iturriaga\*  
11:00-12:00P Pedicled Flaps- Oswaldo Henriquez\*  
12:00-1:00 Lunch Lecture: Endoscopic Pituitary Surgery – Nelson Oyesiku

Hands-on: Proctored Session\*

1:00-2:00 Transellar/Transtuberculum/Transplanum- Ricardo Carrau & Daniel Prevedello\*  
2:00-3:00 Orbital Decompression- Oswaldo Henriquez\*  
3:00-4:00 Endoscopic Craniofacial Resection- Ben Panizza\*  
4:00-5:00 COMPLETE ANATOMICAL DISSECTION

Anatomical Dissection: Intranasal Landmarks; Middle Turbinates; Septal Mucosal Flap; Sphenoidotomy; Sella; Suprasellar/Transplanum Approach; Ethmoidectomy; Medial Orbital Decompression; Frontal Sinusotomy (Draf 3 Procedure); Craniofacial Resection

7:00P Welcome Reception

## FRIDAY, MARCH 15- DAY 2

8:00-8:30A Continental Breakfast  
8:30-9:00 Microsurgical Anatomy Middle Tossa- Pablo Rubino  
9:00-9:30 Coronal Plane- Ricardo Carrau

Hands-on: Proctored Session\*

9:30-10:30 Transclival Approach- Ricardo Carrau & Daniel Prevedello\*  
10:30-12:00P Transpterygoid approach/Medial Maxillectomy/Denker's, ITF- C. Arturo Solares & Gustavo Pradilla\*  
12:00-1:00 Lunch Lecture: Lateral Skull Base Pitfalls – Esther Vivas

Hands-on: Proctored Session\*

1:00-2:00 Craniocervical Junction – Gustavo Pradilla & Arturo Solares\*  
2:00-5:00 COMPLETE ANATOMICAL DISSECTION

Anatomical Dissection (Complete as needed): Transclival, Transpterygoid, Medial Maxillectomy, Denker's, Infratemporal Fossa, Cranio-cervical junction

5:00P Adjourn



## **SATURDAY, MARCH 16- DAY 3**

8:00-8:30A Continental Breakfast

8:30-9:30 Transpetrous Approaches to the Skull Base - Ben Panizza

Hands-on: Proctored Session\*

9:30-10:30 Transbasal Subfrontal Approach - Pablo Rubino\*

10:30-12:00P Cranio-Orbito-Zygomatic- Daniel Prevedello\*

12:00-1:00 Lunch Lecture: Endoscopic Anatomy of the Skull Base- Pablo Rubino

Hands-on: Proctored Session\*

1:00-2:00 Pre-Temporal Transcavernous Approach to Meckel's Cave- Arturo Solares & Gustavo Pradilla\*

2:00-3:00 Transpetrous Approaches- Ben Panizza\*

3:00-5:00 COMPLETE ANATOMICAL DISSECTION

Anatomical Dissection: Transpetrous, Subfrontal, COZ, Transbasal

5:00P Closing Remarks