



EMORY  
UNIVERSITY  
SCHOOL OF  
MEDICINE

CRANIAL BASE SURGERY COURSE  
“A 360 DEGREE PERSPECTIVE”  
HANDS-ON WORKSHOP

November 3-5  
2022



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

COURSE DIRECTORS

EMILY BARROW, MD  
TOMAS GARZÓN-MUVDI, MD  
OSWALDO A. HENRIQUEZ, MD  
GUSTAVO PRADILLA, MD, FAANS  
ARTURO SOLARES, MD



To register online  
visit, <https://form.jotform.com/221645659361158>, or to register via your  
smartphone scan the QR Code to the  
left

If you have any questions or concerns,  
please contact Harmony Washington at  
[harmony.washington@emory.edu](mailto:harmony.washington@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 28 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, November 3 to Saturday, November 5, 2022. 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/221645659361158>. A maximum enrollment of 24 participants has been set so early registration is encouraged. Fees include the use of dissection labs, course syllabus, refreshment breaks, and complimentary transportation to and from the hotel. A letter of confirmation will be sent upon registration for the course.

Registration Fees:

Physicians	\$1,500.00
Residents/Others	\$800.00

## Cancellation Policy

Written cancellations received by October 1, 2022, will be refunded minus an administrative fee of \$100. No refunds will be made after October 1, 2022.

## Travel and Lodging Accommodations

Atlanta Marriott Marquis  
265 Peachtree Center Ave NE  
Atlanta, GA 30303

Phone: 1-866-469-5475

Website: <https://book.passkey.com/event/50359552/owner/321/landing>

Atlanta Marriott Marquis is offering hotel rooms for attendees and their guests at the following group rates plus applicable taxes.

King: \$249.00 per night

Double Queen: \$269.00 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 Wednesday, October 12, 2022 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, November 3, 2022

On Thursday evening, after the day's educational activities, join us for an evening at The ROOF at Ponce City Market for drinks and dinner with 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 Marriott Marquis Atlanta.

## Course Directors

Emily Barrow, MD  
Tomas Garzón-Muvdi, MD  
Oswaldo A. Henriquez, MD  
Gustavo Pradilla MD, FAANS  
Arturo Solares, MD

## Faculty

Daniel Barrow, MD  
Christopher Deibert, MD  
John DelGaudio, MD  
Douglas Mattox, MD

## Guest Faculty



### Giovanni Danesi, MD

Director, Neurosciences Department  
Director, Operative Unit of Otolaryngology and Skull Base Microsurgery  
Otolaryngology - Head and Neck Surgery

Dr. Giovanni Danesi has a large record of surgeries in the field of deafness and ear surgery, skull base surgery, oncologic and endoscopic surgery. He refined his specialization in otologic and neurotologic microsurgery targeted to the middle ear and chronic otitis media and to the benign and malignant skull base tumors. He has publications on national and international journals and he's constantly invited as keynote and invited lecturer at scientific meetings worldwide.



### **Enrique Iturriaga, MD**

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

Dr. Enrique Iturriaga 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 Rhinology and Skull Base.



### **Luis Macias, MD**

Assistant Professor, Otolaryngology, Head and Neck Surgery, LaSalle University  
Staff Rhinologist and Skull Base Surgeon

Dr. Luis Fernando Macias-Valle MD, FARS, works in Mexico City as a staff Rhinologist & Skull Base Surgeon for the Spanish Hospital. He is an Assistant Professor of Otolaryngology/Head and Neck Surgery for LaSalle University. He underwent two years of postgraduate fellowship training in Rhinology and Endoscopic Skull Base Surgery at the University of British Columbia, Canada, and subsequently at the University of Adelaide in Australia. He is a Fellow of the American Rhinologic Society and an active member of the North American Skull Base Society. His research interests are novel treatments for inflammatory sinonasal pathology, training models in endoscopic sinus surgery, and integration of multidisciplinary skull base teams. Currently, he is a reviewer for several journals in the field, including the International Forum of Allergy and Rhinology, American Journal of Rhinology and Allergy, Annals of Otolaryngology, Rhinology, and Laryngology and Laryngoscope.



**Pablo Recinos, MD**

Section Head - Skull Base Surgery, Cleveland Clinic  
Co-Director, Minimally Invasive Cranial Base and Pituitary Surgery Program  
Assistant Professor of Neurosurgery

Dr. Pablo Recinos studied medicine at Johns Hopkin University. He completed fellowships at the University of North Carolina Hospitals and Cleveland Clinic Foundation. Dr. Recinos specializes in brain and spinal tumor, cerebrovascular, pituitary, and skull base surgeries. Dr. Recinos works as a staff neurosurgeon at the Cleveland Clinic.



**Raj Sindwani, MD**

Professor and Vice Chairman  
Section Head of Rhinology, Head & Neck Institute  
Vice Chair Surgical Operations, Cleveland Clinic

Dr. Raj Sindwani, MD is a Neurological Skull Base Surgery Specialist in Cleveland, OH and has over 25 years of experience in the medical field. Dr. Sindwani has extensive experience in Sleep Apnea. He graduated from Schulich School Of Medicine At The University Of Western Ontario medical school. He is affiliated with Cleveland Clinic.



**Ong Yew Kwang, MD**

Clinical Director & Senior Consultant, Department of Otolaryngology - Head & Neck Surgery (ENT)NUH

Assistant Professor, Yong Loo Lin School of Medicine

Dr. Ong Yew Kwang obtained his MBBS (Honours) from Trinity College Dublin, Ireland in 1998. He entered Otolaryngology training in Singapore in 2002, during which he obtained the Diploma in Otolaryngology Head & Neck Surgery (DOHNS)(Lon), MRCS (Edin) and Master of Medicine (ORL). He completed his training in 2008 and was a gold medalist in the exit examination. In 2009, he pursued a year of clinical fellowship in endoscopic skull base surgery at the University of Pittsburgh Medical Centre under Dr. Carl Snyderman and Dr. Ricardo Carrau. His training was in complex sinus and skull base surgeries in collaboration with neurosurgeons. Following that, he also spent a mini-fellowship in functional rhinoplasty under Dr. Yong Yu Jang at Asan Medical Center, Seoul. To date, he remains the only fellowship-trained skull base surgeon in Otolaryngology in Singapore.

# PROGRAM AGENDA

## THURSDAY, NOVEMBER 3 - DAY 1

7:00-8:30A Registration & Continental Breakfast/Welcome & Course Overview  
8:30-9:30 Endoscopic Skull Base Anatomy- **Enrique Iturriaga**

Prosection/Supervised Dissections\*

9:30-11:00 Sphenoethmoidectomy/Maxillary Antrostomy/Frontal Sinus Drill Out -  
**Emily Barrow and Raj Sindwani**

11:00-12:00P Pedicled Flaps - **Ong Yew Kwang**

12:00-12:30 Lunch Lecture: Carotid Injury - **Pablo Recinos and Raj Sindwani**

12:30-1:00 Lunch Lecture: Craniofacial Malignancies - **Ong Yew Kwang**

Prosection/Supervised Dissections\*

1:00- 2:00 Transtuberculum/Transplanum/Transcribiform/Transsellar-  
**Pablo Recinos and Raj Sindwani**

2:00-3:00 Transclival and Craniocervical Junction -**Giovanni Danesi and Ong Yew Kwang**

3:00-5:00 Additional Lab Session

7:30P Welcome Dinner

## FRIDAY, NOVEMBER 4 - DAY 2

8:00-8:30A Continental Breakfast

8:30-9:30 Coronal Plane Anatomy - **Enrique Iturriaga**

Prosection/Supervised Dissections\*

9:30-11:00 Prelacrimal/Medial Maxillectomy/Denker's - **Ong Yew Kwang and Luis Macias**

10:30-12:00P ITF/ Transpterygoid approach -  
**Emily Barrow, Arturo Solares, Pablo Recinos, and Raj Sindwani**

12:00-12:30 Lunch Lecture: TBA- **Giovanni Danesi**

12:30-1:00 Lunch Lecture: TBA - **Pablo Recinos**

Prosection/Supervised Dissections\*

1:00-2:00 Meckel's Cave - **Pablo Recinos and Oswaldo Henriquez**

2:00-3:00 Petroclival/Infrapetrous/Parapharyngeal -

**Luis Macias, Giovanni Danesi, and Arturo Solares**

3:00-5:00 Additional Lab Session

5:00P Adjourn



## **SATURDAY, NOVEMBER 5 - DAY 3**

8:00-8:30A Continental Breakfast

8:30-9:30 Transcranial Anatomy: COZ, Cavernous Sinus and Middle Fossa - **Gustavo Pradilla**

Prosection/Supervised Dissections\*

9:30-12:00P Cranio-Orbito-Zygomatic/ Transcavernous/Kawase -

**Tomas Garzón-Muvdi, Gustavo Pradilla, and Pablo Recinos**

12:00-1:00 Lunch Lecture: TBA- **Ong Yew Kwang**

Prosection/Supervised Dissections\*

1:00-2:00 Transpetrous Approaches - **Giovanni Danesi**

2:00-5:00 Additional Lab Session

5:00P Closing Remarks