EMORY
UNIVERSITY
SCHOOL OF
MEDICINE

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

November 30-December 2

2023

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

A Chance to Challenge Yourself With a Real Life ICA Injury Model

COURSE DIRECTORS

EMILY BARROW, MD
TOMAS GARZÓN-MUVDI, MD
GUSTAVO PRADILLA, MD, FAANS
ARTURO SOLARES, MD
ESTHER VIVAS, MD

Residents/Fellows:

Attending:

Early Registration Discount $100 off ends September 16th!

To register online visit,

Residents/Other: https://form.jotform.com/231206124211133

Physicians: https://form.jotform.com/231205597400146

or to register via your smartphone scan the QR Code to the left.

If you have any questions or concerns, please contact Shannah Edwards at shannah.jane.edwards@emory.edu or 706-767-5352

Course Description

Recent advances in technology and skull base techniques have raised the level of complexity that both neurosurgeons and ENT surgeons are able to deal with. As a continuously evolving field, skull base surgery represents a challenge for those who practice it, urging for constant training. Along with expertise, a key element for successful skull base surgery is acknowledging ongoing developments in conventional microscopy, skull base endoscopy, exoscopic techniques, and robotic-assisted visualization. This armamentarium provides an extended selection of techniques that can be tailored for each individualized case in the surgical field.

This three-day course, led by neurosurgeons and ENT surgeons, exposes the theoretical basis of traditional skull base microsurgical techniques along with a detailed insight on expanded endoscopic techniques and robotic-assisted exoscopic visualization. Participants will have the opportunity to enhance their knowledge and skills through hands-on workshop sessions in which key skull base procedures are recreated using preserved and injected cadaveric specimens.

Course attendees will benefit from lectures provided by experts on the field as they review cases and discuss technique selection as well as complication avoidance and management. During bioskills workshops, proctored dissections by the faculty and individual mentored dissections will be available for all participants

Attendees will be able to challenge themselves with a cadaveric real-life internal carotid artery injury model during endoscopic endonasal surgery. The model will be running during the whole course therefore attendees will be able to perform several attempts of repair and practice the ‘best’ technique to cope with this dreadful complication. The model employs a real-life scenario where the OR environment is reproduced so as to test the stress and emotional burden that this unexpected complication can produce. In addition to the technical skills, the attendee will learn and refine the proper ICA injury intraoperative management. Additionally, a live case performed by faculty members will be broadcasted during the course, allowing attendees to interact with the surgeons during the procedure. To allow the greatest educational experience, maximum enrollment in this course will be limited to 20 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 30, 2023 to Saturday, December 2, 2023. 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

A maximum enrollment of 22 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 **(after 9/16/23):**

Attendings	$1,600
Residents/Fellows	$900

Cancellation Policy

Written cancellations received by October 26, 2023, will be refunded minus an administrative fee of $100. No refunds will be made after October 26, 2023.

Travel and Lodging Accommendations

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

Phone: 1-866-469-5475
Website: www.marriott.com/atlmq

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

King: $239 + tax per night
Double Bed: $259 + tax 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, November 1, 2023 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 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 coursed is count code that will be given prior to arrival.

Social Programs

Welcome Reception – Thursday, November 30, 2023
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 with Uber from The Marriott Marquis Atlanta.

Course Directors

Emily Barrow, MD
Tomas Garzón-Muvdi, MD
Esther Vivas, MD
Gustavo Pradilla MD, FAANS
Arturo Solares, MD

Faculty

Daniel Barrow, MD
Christopher Deibert, MD
John DelGaudio, MD
Douglas Mattox, MD
Oswaldo Henriquez, MD
Sarah Wise, MD
Thomas Edwards, MD
Candace Hobson, MD

Guest Faculty

James Bowman, MD

Dr. James Bowman is an ear nose and throat specialist with advanced training in managing conditions of the skull base including vestibular schwannomas and pituitary tumors as well as head and neck cancers.

He collaborates regularly with his BCNC neurosurgical colleagues on complex conditions requiring his expertise to establish safe operating pathways to reach tumors in anatomically complex areas near the brain. This special relationship has been developed over the years with the philosophy that two surgeons operating together as part of a complementary team can achieve better outcomes for patients.

Dr. Bowman regularly manages all ENT conditions and treats adults and children. He is a fellow of the Royal Australasian College of Surgeons.

Enrique Iturriaga, MD

Director, Rhinology and Skull Base Center
Medical Director, Medtronic ENT
Fort Laurderdale, Florida

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.

Paul A. Gardner, MD

Peter J. Jannetta Professor
Executive Vice Chair, Surgical Services
Co-Director, Center for Cranial Base Surgery
Director, Surgical Neuroanatomy Laboratory
Pittsburgh, Pennsylvania

Paul A. Gardner, MD, is the Peter J. Jannetta Endowed Chair in Neurosurgery and a Professor in the Department of Neurological Surgery at the University of Pittsburgh School of Medicine and Neurosurgical Director of the Center for Cranial Base Surgery as well as Executive Vice Chairman for Surgical Services for the Department of Neurological Surgery at the University of Pittsburgh Medical Center (UPMC).

Dr. Gardner joined the faculty of the Department of Neurological Surgery at the University of Pittsburgh School of Medicine in 2008 after completing his residency and fellowship training at the University of Pittsburgh. He completed his undergraduate studies at Florida State University, majoring in biochemistry, and received his Medical Degree from the University of Pittsburgh School of Medicine.

Dr. Gardner completed a two-year fellowship in endoscopic endonasal pituitary and endoscopic and open skull base surgery at the University of Pittsburgh Medical Center. His research has focused on evaluating patient outcomes following these surgeries and more recently on molecular phenotyping of rare tumors. He is recognized internationally as a leader in the field of endoscopic endonasal surgery, a minimally invasive surgical approach to the skull base. His other surgical interests include pituitary tumors, open cranial base surgery, and vascular surgery.

Dr. Gardner is certified by the American Board of Neurological Surgery and is a member of the American Association of Neurological Surgeons, Congress of Neurological Surgeons, and the North American Skull Base Society where he served as a Director-at-Large. Dr. Gardner is co-editor of the textbook Vascular Challenges in Skull Base Surgery published by Thieme and co-director of The Pittsburgh Course: Endoscopic Endonasal Surgery of the Skull Base. He has authored more than 400 peer-reviewed articles and book chapters and he presents frequently on the podia of local, national, and international scientific meetings and courses.

Eric Wang, MD

Professor of Otolaryngology, Neurological Surgery and Ophthalmology, University of Pittsburgh School of Medicine
Director, Division of Rhinology
Director of Education for the UPMC Center for Cranial Base Surgery
Pittsburgh, Pennsylvania

Dr. Eric Wang specializes in rhinology and skull base surgery. His main focus includes endoscopic sinus surgery, endoscopic orbital surgery, and anterior cranial fossa tumors. He has been co-director and course faculty in more than 50 endoscopic courses. He has been invited as lecturer at multiple national meetings. Dr. Wang has published over 150 peer-reviewed articles. His current topic of research includes the development of evidence-based treatment algorithms for skull base surgery.

Shaan M. Raza, MD

Neurosurgical Director, Skull Base and Pituitary Multidisciplinary Program, The University of Texas MD Anderson Cancer Center
Director of Minimally Invasive Skull Base Surgery
Houston, TX

Dr. Shaan M Raza is a faculty member in the Department of Neurosurgery at The University of Texas MD Anderson Cancer Center and serves as Section Chief of the Skull Base Surgery Program in the Department of Neurosurgery. His clinical interests include the surgical management of skull base and pituitary tumors using open, endoscopic and minimally-invasive techniques. Dr. Raza received his medical degree from The Johns Hopkins University. He subsequently completed his residency in neurosurgery at The Johns Hopkins Hospital during which he also completed a two year NIH-funded clinical and research fellowship in neurosurgical oncology. Additionally, Dr. Raza has completed fellowships in skull base surgery at The University of Texas MD Anderson Cancer Center and endoscopic endonasal skull base surgery at Weill Cornell Medical College – New York Presbyterian Hospital. He is one of a handful of surgeons in the country with fellowship training in the full spectrum of surgical techniques for the management of benign and malignant skull base tumors in addition to general brain tumors. Dr. Raza is the recipient of numerous awards including the Sir Charles Ballance Award from British Skull Base Society. He is an active clinician – researcher with his academic efforts focused on skull base pathology, brain tumors and surgical outcomes. He has published nearly one hundred publications, written seventeen book chapters, and edited one neurosurgical textbook.

PROGRAM AGENDA

THURSDAY, NOVEMBER 30 - DAY 1

Morning Lectures - WEB G02

7:00-8:30	Registration & Continental Breakfast/Welcome & Course Overview - ***Gustavo Pradilla and Arturo Solares*** **(Breakfast provided by Panera Bread)**
8:30-9:30	Sagittal Plane Endoscopic Skull Base Anatomy - ***Enrique Iturriaga***

Prosection/Supervised Dissections - WEB 220/221

9:30-11:00	Spheno-ethmoidectomy/Maxillary Antrostomy/Frontal Sinus Drill Out - ***Emily Barrow and*** **Eric Wang**
11:00-12:00	Pedicled Flaps - **Eric Wang**

Lunch Lectures - WEB G02 (Lunch provided by Fox Bros. BBQ)

12:00-12:30	Carotid Injury-Management - ***Paul Gardner***
12:30-1:00	Complex Skull Base Repair Techniques - ***Eric Wang***

Prosection/Supervised Dissections - WEB 220/221

1:00- 2:00	Transtuberculum/Transpanum/Transcribriform/Transellar Approaches - ***Paul Gardner and Eric Wang***
2:00-3:00	Transclival and Craniovertebral Junction - **James Bowman** ***and Shaan Raza***
3:00-5:00	Additional Lab Session and **ICA Injury Model Session I**
7:30	Welcome Dinner @ The Roof at Ponce city Market

FRIDAY, DECEMBER 1 - DAY 2

Morning Lecture - WEB G02

8:00-8:30	Continental Breakfast **(Breakfast Provided by Panera Bread)**
8:30-9:30	Coronal Plane Endoscopic Skull Base Anatomy - ***Enrique Iturriaga***

Prosection/Supervised Dissections - WEB 220/221

9:30-11:00	Prelacrimal/Medial Maxillectomy/Denker's/Calwell-Luc - ***Eric Wang and Shaan Raza***
11:00-12:00	Infratemporal Fossa/Transpterygoid Approach - **Emily Barrow, Arturo Solares, Shaan Raza**

Lunch Lectures - WEB G02 (Lunch Provided by Moes Southwest Grill)

12:00-12:30	Transpetrous Approaches - **James Bowman**
12:30-1:00	Meckel's Cave - 360 Degree Perspective - ***Shaan Raza***

Prosection/Supervised Dissections - WEB 220/221

1:00-2:00	Meckel's Cave - Front Door - ***Paul Gardner and*** **Eric Wang**
2:00-3:00	Petroclivical Region/Parapharyngeal Space - **James Bowman** ***and C. Arturo Solares***
3:00-5:00	Additional Lab Session and **ICA Injury Model Session II**

Live Surgical Case Broadcasting will take place from 9:30-3:30pm by Dr. Gustavo Pradilla

SATURDAY, DECEMBER 2 - DAY 3

Morning Lectures - WEB G02

8:00-8:30 Continental Breakfast **(Breakfast provided by Panera Bread)**

8:30-9:30 Anatomy of the Middle Cranial Fossa - Pretemporal Approach - Approaches to the Cavernous Sinus - ***Gustavo Pradilla***

Prosection/Supervised Dissection - WEB 220/221

9:30-11:00 Cranio-Orbito-Zygomatic/Anterior Clinoidectomy/Transcavernous/ Pretemporal - ***Tomas Garzon-Muvdi and Gustavo Pradilla***

11:00-12:00 Kawase/MCF approach to the IAC - ***C. Arturo Solares and Shaan Raza***

Lunch Lectures - WEB G02 (Lunch Provided by Sufi's Kitchen)

12:00-12:30 Retrolabyrinthine, Translabyrinthine, Transchoclear, and Petro-Occipital Trans-Sigmoid Approaches - **James Bowman**

12:30-1:00 Temporal Bone Resection - Classification and Surgical Technique - ***C. Arturo Solares***

Prosection/Supervised Dissections - WEB 202/221

1:00-3:30 Retrolabyrinthine, Translabyrinthine, Infralabyrinthine, Transchoclear, and Petro-Occipital TransSigmoid Approaches - **James Bowman, *C. Arturo Solares, Esther Vivas***

3:30-5:00 Additional Lab Session and **ICA Injury Model Session III**

5:00 Closing Remarks