



SPECIAL INVITATION

Advanced Training in Open and Endoscopic Surgery: A Hands-on Skull Base Training Program

A comprehensive dissection experience including 2 lab days.

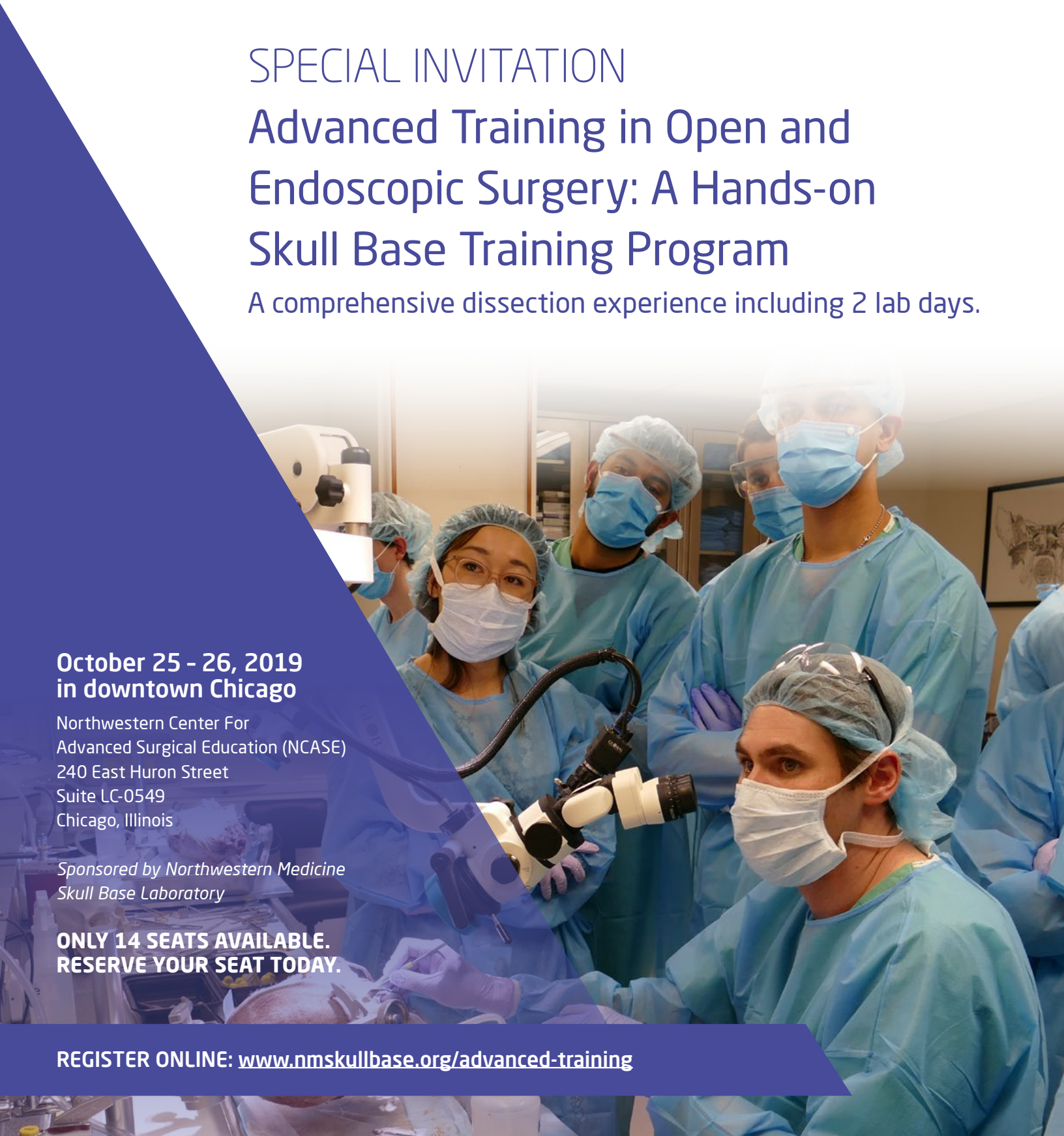
**October 25 - 26, 2019
in downtown Chicago**

Northwestern Center For
Advanced Surgical Education (NCASE)
240 East Huron Street
Suite LC-0549
Chicago, Illinois

*Sponsored by Northwestern Medicine
Skull Base Laboratory*

**ONLY 14 SEATS AVAILABLE.
RESERVE YOUR SEAT TODAY.**

REGISTER ONLINE: www.nmskullbase.org/advanced-training



Advanced Training in Open and Endoscopic Surgery: A Hands-on Skull Base Training Program

Course Directors: James P. Chandler, MD, and Robert C. Kern, MD

Bringing together the skill sets of neurosurgery and otolaryngology, this comprehensive 2-day course offers a unique opportunity to collaborate and learn complex surgical techniques from some of the top experts in the field of skull-based pathologies, and to take advantage of the leading-edge technologies and cadaver dissection available in our lab.

The Skull Base team will teach by didactic presentations, 3D and virtual reality (VR) anatomy demonstrations and guided cadaveric dissection. By incorporating 3D visualizations, we are able to fully illustrate the complexities of the human brain in a way that we believe will further cement your visuospatial knowledge. Our comprehensive and translational approach using real surgical techniques will also better equip your residents and fellows with the skills they need in the OR.

Invited Faculty include, **Omar Arnaout, MD**, and **Timothy R. Smith, MD**, of Harvard University, and **Jean Anderson Eloy, MD**, of Rutgers New Jersey Medical School.

PROGRAM OBJECTIVES

The objective of this course is to improve patient care through didactic instruction and 3D visualization. Participating surgeons will have hands-on dissection experience, each group utilizing two specimens to rehearse several complex approaches in both open and endoscopic cranial base surgery.

Upon completion of the course, participants will be able to:

- 1) Review the surgical approaches (open and endoscopic) for complex, skull base pathologies.
- 2) Recognize the advantages of a team-based approach for managing pre-, peri- and postoperative skull base pathologies.
- 3) Demonstrate proficient endoscopic instrument handling and performing standard open skull base approaches.

For more information, please contact **Sarah Baggs**, Continuing Medical Education administrator, Northwestern Memorial HealthCare, at **sbaggs@nm.org**, or visit www.nmskullbase.org/advanced-training.

- COMPREHENSIVE 2-DAY DISSECTION EXPERIENCE
- OPEN AND ENDOSCOPIC SURGICAL APPROACHES
- 3D AND VIRTUAL REALITY (VR) ANATOMY GUIDED DEMONSTRATIONS

Friday, October 25, 2019

7:00 am	Breakfast and Registration
7:15 am	Welcome/Course Overview <i>James P. Chandler, MD</i>
MODULE 1:	SELLAR/PARASELLAR/SUPASELLAR APPROACHES
7:30 am	3D Anatomy <i>Michael Walsh, MD</i>
8:00 am	Endoscopic Endonasal Sellar w/ Nasoseptal flap <i>Robert C. Kern, MD</i>
8:30 am	LAB: Endoscopic Dissection
10:00 am	Transcranial Suprasellar Approach
10:30 am	LAB: Transcranial Dissection
12:00 pm	Lunch with Case Presentations
MODULE 2:	ANTERIOR CRANIAL BASE
1:00 pm	3D Anatomy <i>Michael Walsh, MD</i>
1:30 pm	Endoscopic Anterior Cranial Base Resection: Suprasellar Approach <i>David B. Conley, MD</i>
2:00 pm	LAB: Endoscopic Dissection
3:30 pm	Anterior Cranial Base Resection: Subfrontal Approach w/ Pericranial Flap <i>James P. Chandler, MD</i>
4:00 pm	LAB: Open Dissection
5:00 pm	Review and Adjournment
7:00 pm	Dinner with Faculty and Participants

Saturday, October 26, 2019

7:00 am

Breakfast

MODULE 3:

MIDDLE CRANIAL FOSSA, INFRATEMPORAL SKULL BASE

7:30 am

3D Anatomy

Michael Walsh, MD

8:00 am

Endoscopic Endonasal Transpterygoid/Transmaxillary Approach to the Middle Cranial Fossa

Jean Anderson Eloy, MD, FACS, FARS, and Robert C. Kern, MD

8:30 am

LAB: Endoscopic Dissection

10:00 am

Lateral Subtemporal Approach to the Middle Cranial Fossa

Alan G. Micco, MD, and Timothy R. Smith, MD, PhD, MPH

10:30 am

LAB: Subtemporal Dissection

12:00 pm

Lunch with Case Presentations

MODULE 4:

TRANSLIVAL APPROACHES

1:00 pm

3D Anatomy

James P. Chandler, MD, David B. Conley, MD, and Michael Walsh, MD

1:30 pm

Endoscopic Endonasal Transclival Approach

James P. Chandler, MD, David B. Conley, MD, Jean Anderson Eloy, MD, FACS, FARS, and Michael Walsh, MD

2:00 pm

LAB: Endoscopic Dissection

3:30 pm

Transpetrosal/Far Lateral Approach to the Clivus

Omar Arnaout, MD

4:00 pm

LAB: Far Lateral Dissection

5:30 pm

Review and Adjournment

Program Course Directors

James P. Chandler, MD

*Vice Chair, Department of Neurological Surgery
Lavin/Fates Professor of Neurological Surgery
Director, Skull Base Laboratory
Co-director,
Lou and Jean Malnati Brain Tumor Institute
of the Robert H. Lurie Comprehensive Cancer Center
Professor of Neurosurgery and Otolaryngology – Head
and Neck Surgery
Northwestern University
Feinberg School of Medicine*

Robert C. Kern, MD

*Chair, Department of Otolaryngology – Head and Neck Surgery
George A. Sisson, MD, Professor
of Otolaryngology
Professor of Otolaryngology –
Head and Neck Surgery and Medicine (Allergy and Immunology)
Northwestern University
Feinberg School of Medicine*

Invited Faculty

Omar Arnaout, MD

*Center for Skull Base and Pituitary Surgery
Co-Director,
Computational Neuroscience Outcomes
Center (CNOC)
Assistant Professor of Neurosurgery,
Harvard Medical School Department
of Neurosurgery,
Brigham and Women's Hospital*

Jean Anderson Eloy, MD

*Professor and Vice Chairman
Department of Otolaryngology -
Head and Neck Surgery
Director, Rhinology and Sinus Surgery;
Director, Otolaryngology Research
Co-Director, Endoscopic Skull Base
Surgery Program
Professor of Neurological Surgery;
Professor of Ophthalmology and
Visual Science
Rutgers New Jersey Medical School*

Timothy R. Smith, MD, PhD, MPH

*Computational Neurosurgical
Outcomes Center
Assistant Professor of Neurosurgery
Harvard Medical School
Department of Neurosurgery,
Brigham and Women's Hospital*

Program Faculty

David B. Conley, MD

*Associate Professor, Otolaryngology -
Head and Neck Surgery
Northwestern University
Feinberg School of Medicine*

Alan G. Micco, MD

*Professor, Otolaryngology, Head
and Neck Surgery Medical Education
and Neurological Surgery
Northwestern University
Feinberg School of Medicine*

Michael Walsh, MD

*Health System Clinician,
Neurological Surgery
Northwestern University
Feinberg School of Medicine*

Osaama H. Khan, MD, MSc

*Oncology and Skull Base Neurosurgeon
Director, Surgical Neuro-oncology
Director, Brain Tumor Bank
Northwestern Medicine
Central DuPage Hospital
Northwestern Medicine
Cancer Center Warrenville
Assistant Professor,
Department of Neurosurgery
Northwestern University
Feinberg School of Medicine*



Program Location

The program will be held at [Northwestern Center For Advanced Surgical Education \(NCASE\)](#) on Northwestern Medicine's downtown campus,

240 East Huron Street, Suite LC-0549
Chicago, Illinois 60611

Hotel Accommodations

Visit [nm.org](#) to [download our Hotel Guide](#). Or contact Sarah Baggs, Continuing Medical Education administrator, Northwestern Memorial HealthCare, at sbaggs@nm.org.

Parking

Discounted day and overnight parking will be available at 222 East Huron Street.

Audience

This comprehensive 2-day course is designed for both novice and experienced surgeons, residents and fellows in neurosurgery and otolaryngology.

Registration Fee

The fee is \$2,500 for physicians and \$1,500 for trainees. Breakfast, refreshments and lunch are provided. Space is limited. No refunds will be issued after **October 1**.

Register as a pair (neurosurgery and otolaryngology - head and neck surgery) and receive a discount of \$250 off your registration.

Registration Procedure

To register online, please visit www.nmskullbase.org/advanced-training. If paying with check, please mail your check, made payable to **Northwestern Memorial Hospital (CME)**, to the following address, prior to **October 1**.

Sarah Baggs
c/o Northwestern Memorial HealthCare
420 East Superior Street, Suite 9-905
Chicago, Illinois 60611

Accreditation Statement

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation Statement

The Northwestern University Feinberg School of Medicine designates this educational activity for a maximum of *18.5 AMA PRA Category 1 Credit(s)[™]*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Family Attractions

Northwestern Medicine's downtown campus is located in the heart of Chicago, within walking distance of a variety of restaurants, Navy Pier and the Magnificent Mile, Chicago's premier shopping area. For a listing of all Chicago has to offer, visit cityofchicago.org.

Advanced Training in Open and Endoscopic Surgery:
A Hands-on Skull Base Training Program



October 25 – 26, 2019

Registration Form

Registration Category

- Attending Physician \$2,500
- Trainee \$1,500
- Neuro/Oto Team \$2,250/\$1,250

How to Register

 **ONLINE:** www.nmskullbase.org/advanced-training

OR MAIL with check (*payable to Northwestern Memorial Hospital (CME)*)

Sarah Baggs
c/o Northwestern Memorial HealthCare
420 East Superior Street
Suite 9-905
Chicago, Illinois 60611

For Questions:

Email: sbaggs@nm.org

Phone: 312.503.4005

Please Type or Print

Last Name _____ First Name _____

Institution _____

Address _____

City _____ State _____ ZIP Code _____

Email (Required) _____
Your registration confirmation will be emailed

Specialty _____

Special Dietary Requirements _____

Disability Accommodations _____
Please advise us of your needs

How did you hear about our program?

- Brochure
- Email
- Website
- Twitter
- Word of Mouth
- Previous Attendee