

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

Comprehensive dissection experience  
that includes three lab days



**March 7 - 9, 2025**

Downtown Chicago on the campus  
of Northwestern Memorial Hospital

**Course directors**

James P. Chandler, MD, and Robert C. Kern, MD

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

The Skull Base Lab team instructs via didactic presentation, 3D and virtual reality (VR) anatomy demonstration, and guided cadaveric dissection. Participating surgeons get hands-on dissection experience using specimens to practice several complex approaches in both open and endoscopic cranial base surgery.

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

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Review the surgical approaches (open and endoscopic) for complex skull base pathologies.

Recognize the advantages of a team-based approach for managing pre-, peri- and postoperative skull base pathologies.

Demonstrate proficient endoscopic instrument handling and perform standard open skull base approaches.

Master minimally invasive endoscopic endonasal approaches to the sellar and peri-sellar area through advanced orbital-zygomatic craniotomy.

Identify complex skull base pathologies.

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View the agenda and register online:  
[nmskullbase.org/advanced-training](https://nmskullbase.org/advanced-training)

# Course Details

## Location and parking

### Northwestern Simulation Laboratory

McGaw Pavilion  
240 East Huron Street, Suite LC-0540  
Chicago, Illinois 60611

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

## Audience

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

## Registration fees

- Attending physician ..... \$2,500
- Trainee ..... \$1,000
- Pair registration (neurosurgery and otolaryngology - head and neck surgery) ..... \$3,500
- Northwestern University Feinberg School of Medicine alumni ..... \$1,000

Breakfast, refreshments, lunch and Friday dinner are provided. Space is limited.

## Hotel accommodations

We have a limited number of rooms reserved for participants coming from out of town. Please contact Rajashree Sarkar, MBBS/MS, at 312.695.2523 or [rajashree.sarkar@northwestern.edu](mailto:rajashree.sarkar@northwestern.edu) for information.

## 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 live activity for an estimated maximum of *21.75 AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## American Board of Surgery Continuous Certification Program

Successful completion of this CME activity enables the learner to earn credit toward the CME requirement(s) of the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS credit.

## Questions?

Email: [rajashree.sarkar@northwestern.edu](mailto:rajashree.sarkar@northwestern.edu)  
Phone: 312.695.2523 (TTY: 711)

## Registration

To register, please visit [nmskullbase.org/advanced-training](http://nmskullbase.org/advanced-training). You can also contact Rajashree Sarkar, MBBS/MS, at 312.695.2523 or [rajashree.sarkar@northwestern.edu](mailto:rajashree.sarkar@northwestern.edu).

## Sponsored by

Northwestern Skull Base Laboratory

## Course Faculty

### Course directors

James P. Chandler, MD  
Robert C. Kern, MD

### Northwestern University faculty

David B. Conley, MD  
Osaama Khan, MD  
Stephen T. Magill, MD, PhD  
Alexander Schneider, MD  
Michael Walsh, MD  
Kevin C. Welch, MD  
Richard M. Wiet, MD  
Kevin Zhan, MD

### Guest speakers

Omar Arnaout, MD  
Jean Anderson Eloy, MD, FACS, FARS  
Timothy R. Smith, MD, PhD  
Gabriel Zada, MD

# Course Agenda

## Friday, March 7

7:00 am Registration, 3D Device Set Up  
Northwestern University Simulation Lab

7:15 am **Welcome/Course Overview**  
*James P. Chandler, MD*  
VR Conference Room

### Module 1: Endoscopic Sellar/Suprasellar Approaches

7:30 am **3D Anatomy**  
*Michael Walsh, MD*  
VR Conference Room

8:00 am **Extended Endoscopic Endonasal Sellar With Nasoseptal Flap**  
*Gabriel Zada, MD*  
VR Conference Room

8:30 am **Lab: Endoscopic Dissection**  
Simulation Lab

10:00 am **Endoscopic Anterior Cranial Base Resection: Suprasellar Approach**  
*Jean Anderson Eloy, MD, FACS, FARS*  
VR Conference Room

10:30 am **Reconstruction of Skull Base**  
*David B. Conley, MD*  
VR Conference Room

11:00 am **Lab: Endoscopic Dissection**  
Simulation Lab

Noon **Lunch**  
Northwestern University  
Simulation Room 0414

### Module 2: Endoscopic Trans Pterygoid/Trans Maxillary/Trans Clival Approaches

1:00 pm **3D Anatomy**  
*Michael Walsh, MD*  
VR Conference Room

1:30 pm **Endoscopic Endonasal Trans Pterygoid/Trans Maxillary Approach to the Middle Cranial Fossa**  
*Robert C. Kern, MD, and Jean Anderson Eloy, MD, FACS, FARS*  
VR Conference Room

2:00 pm **Lab: Endoscopic Dissection**  
Simulation Lab

3:30 pm **Endoscopic Endonasal Trans Clival Approach**  
*Stephen T. Magill, MD, PhD*  
VR Conference Room

4:00 pm **Lab: Endoscopic Dissection**  
Simulation Lab

5:30 pm Review and Adjournment

7:00 pm **Dinner With Faculty and Participants**  
Capital Grille  
633 West Ontario Street, Chicago  
Reservation name is Dr. Chandler.

## Saturday, March 8

7:00 am Breakfast, 3D Device Set Up  
VR Conference Room

### Module 3: Open Suprasellar/Middle Cranial Fossa Approaches

7:30 am **3D Anatomy**  
*Michael Walsh, MD*  
VR Conference Room

8:00 am **Transcranial Suprasellar Approaches: Orbitozygomatic Approach**  
*Osaama Khan, MD*  
VR Conference Room

8:30 am **Lab: Open Dissection**  
Simulation Lab

10:00 am **Lateral Sub Temporal Approach to the Middle Cranial Fossa With Anterior Petrosectomy**  
*Timothy R. Smith, MD, PhD, and Kevin Zhan, MD*  
VR Conference Room

10:30 am **Lab: Open Dissection**  
Simulation Lab

Noon **Lunch**  
Northwestern University  
Simulation Room 0414

#### Module 4: Trans Petrosal/Far Lateral Approaches

- 1:00 pm **3D Anatomy**  
*Michael Walsh, MD*  
VR Conference Room
- 1:30 pm **Far Lateral Transcondylar Approach**  
*James P. Chandler, MD*  
VR Conference Room
- 2:00 pm **Lab: Open Dissection**  
Simulation Lab
- 3:30 pm **Trans Petrosal Approach to the Clivus and Petrous Apex**  
*Omar Arnaout, MD*  
VR Conference Room
- 4:00 pm **Lab: Open Dissection**  
Simulation Lab
- 5:30 pm **Review and Adjournment**  
*James P. Chandler, MD*  
VR Conference Room

#### Sunday, March 9

- 8:00 am **Breakfast**  
VR Conference Room

#### Module 5: Complications

- 9:00 am **Complication Avoidance and Management**  
*James P. Chandler, MD*  
*Osaama Khan, MD*  
*Stephen T. Magill, MD, PhD*  
*Robert C. Kern, MD*  
*David B. Conley, MD*  
*Gabriel Zada, MD*  
VR Conference Room
- 10:00 am **Lab: Open Dissection**  
Simulation Lab
- Noon **Endoscopic Transorbital Approach**  
*Osaama Khan, MD*  
*Stephen T. Magill, MD, PhD*
- 1:00 pm **Review and Adjournment**  
*James P. Chandler, MD*  
Simulation Lab