

## Join us for an innovative Summer Master Class!

Strictly limited to 18 participants, the course assures everyone will have plenty of hands-on time. Every participant will have the opportunity to perform each procedure taught, with one rotation on each procedure assisted by virtual reality headsets and software. The 1.5-day course includes online material, 3 hours of classroom instruction, plus a full day in our state-of-the-art Neurosurgical Innovations and Training Center.

**Note: This summer master class is not accredited for CME.**

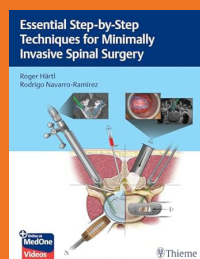
## FEES AND REGISTRATION Lecture + Hands-on Lab Course

**Premium Registration: \$795      Basic Registration: \$650**

Fee includes:

- pre-course online material
- 3 hours of classroom instruction
- 1 full day of hands-on training in our state-of-the-art Neurosurgical Innovations Center

Premium Registration includes Dr. Härtl's book, which he will sign for you at the course



**REGISTER ONLINE: [nyc-miss.org](https://nyc-miss.org)**

or email [neurosurgery-subs@med.cornell.edu](mailto:neurosurgery-subs@med.cornell.edu) for other registration options. All registrations must be paid in advance.

**REFUND POLICY:** A fee will be retained on all cancellations. Refund requests must be in writing and must be received by July 15, 2024. After this date, no refunds are possible. Please note this course is **NOT** available online; there is no streaming option.

**Save the Date for  
NYC-MISS 2024!**

**December 13-14, 2024**

Scan this code to sign up for our course mailing list. We'll notify you about upcoming courses as they open for registration.



Weill Cornell Medical College  
1300 York Avenue, New York, NY 10065

Weill Cornell Medicine | NewYork-Presbyterian

# NYC



# MISS 2024

**Summer Hands-On Intensive August 16-17, 2024 [nyc-miss.org](https://nyc-miss.org)**

**Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center**

**AUGUST 16-17, 2024**  
In person, hands-on!

## An Immersive Spine Intensive Summer Master Class

**ACQUIRE** hands-on experience using state-of-the-art training models

**MASTER** complex, advanced techniques from world leaders in the field

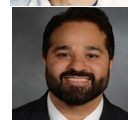
**UNDERSTAND** the technical demands of minimally invasive tubular surgery using virtual reality

### COURSE DIRECTORS



**Roger Härtl, MD**

Hansen-MacDonald Professor of Neurological Surgery, Weill Cornell Medicine  
Director, Och Spine at NewYork-Presbyterian at the Weill Cornell Medicine Center for Comprehensive Spine Care



**Ibrahim Hussain, MD**

Assistant Professor, Neurosurgery  
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

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QUESTIONS? email [neurosurgery-subs@med.cornell.edu](mailto:neurosurgery-subs@med.cornell.edu)

**Visit [nyc-miss.org](https://nyc-miss.org)**

## DAY 1: Friday, August 16, 2024

### Lectures, Discussion, Case Presentations (STARR conference room, 6th floor)

Time	Topic	Faculty
3:00-3:10 pm	Coffee and Introductions	Roger Härtl, MD
3:10-3:30 pm	ULBD Lumbar	Galal Elsayed, MD
3:30-4:00 pm	ULBD Cervical	Roger Härtl, MD
4:00-4:30 pm	Lumbar Far Lateral	Michael Virk, MD, PhD
4:30-5:00 pm	Cervical Foraminotomy	Ibrahim Hussain, MD
5:00-5:30 pm	Dural Repair and Closure	TBA
5:30-6:00 pm	Tubes vs Endoscope	Osama Kashlan, MD

## DAY 2: Saturday, August 17, 2024

### Hands-On Lab Class (Neurosurgical Innovations and Training Center, 8th floor)

7:30-8:00 am	Continental Breakfast (STARR conference room)
8:00-9:15 am	Group A on station 1, Group B on station 2, Group C on station 3, Group D on station 4, Group E on station 5, Group F on VR
9:15-10:30 am	Each group moves one station (Group A now on station 2, B on 3, C on 4, etc.)
10:30-11:45 am	Each group moves one station (Group A now on station 3, etc.)
12:00-12:45 pm	Lunch (return to Starr 651)
1:00-2:15 pm	Continue rotation (Group A now on station 4, etc)
2:15-3:30 pm	Continue rotation (Group A now on station 5, etc)
3:30-4:45 pm	Continue rotation (Group A now on VR etc)
4:45-5:00 pm	Wrapup and Adjourn

The lab has 5 workstations plus space for Virtual Reality training. You will be assigned to one of six groups (A through F) and rotate through all stations

Station 1 ULBD (Lumbar and Durastat)  
Station 2 Lumbar Far Lateral Discectomy  
Station 3 ULBD (Cervical)  
Station 4 Cervical Foraminotomy  
Station 5 CSF Leak Repair  
Plus... Virtual Reality training area

[nyc-miss.org](http://nyc-miss.org)

## ABOUT THE COURSE

Microscopes and tubular retractors have become common in spine surgery as they offer a lower-risk, minimally invasive option for many procedures. Virtual reality-assisted teaching is entering the market quickly. This course offers important access to both: A small class of just 18 students will learn tubular approaches, using VR to facilitate training, in an exciting extension of the world-famous NYC-MISS course held every December. This Summer Master Class will provide intensive, in-depth training, using real microsurgical tools and instruments, under the supervision of experts in the field. You will be working on advanced RealSpine simulation models using VR technology in the high-tech Weill Cornell Medicine Neurosurgical Innovations and Training Center.

*Did you ever wonder...*

- how to achieve a complete “over the top” decompression and contralateral foraminotomy through an ipsilateral lumbar tubular approach?
- how to get to that far lateral disc herniation in the lumbar spine?
- how to perform safely and effectively a tubular MIS cervical bilateral decompression or foraminotomy in the cervical spine?
- how do masters fix CSF leaks through small tubes?

Now is your chance to learn all the tips and tricks from surgeons who are masters in the field!

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### TARGET AUDIENCE: NATIONAL/INTERNATIONAL

Designed for residents, fellows, early-career orthopedic surgeons and neurosurgeons, as well as more advanced spine specialists who would like to gain microscopic and tubular experience using VR headsets.

