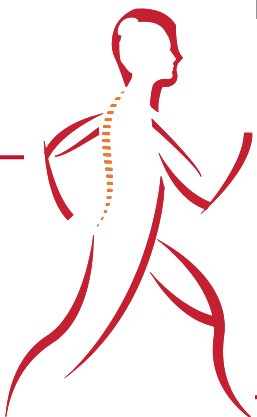




**Weill Cornell Medicine**

**NewYork-Presbyterian**

# NYC



# MISS

**20  
24**

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

**18th New York City MIS, Endoscopy, Robotics, 3D Navigation, Augmented Reality, VR, and AI Spine Symposium Case-based and hands-on**

**December 13-14, 2024**

**Weill Cornell Medicine  
1300 York Avenue  
New York, NY 10065**

## **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



**Luiz Pimenta, MD, PhD**

Attending Neurosurgeon  
University of California, San Diego Neurospine Surgery  
Instituto de Patologia da Coluna  
Sao Paulo, Brazil

**Please join us for this annual must-attend course! Each December, NYC-MISS brings national and international practicing neurosurgeons and orthopedic spine surgeons, fellows, and residents in training to explore minimally invasive spinal surgery techniques and navigation for spinal surgery. The entire agenda is focused on teaching new operative skills and encouraging debate and discussion around MIS spine techniques. Combining didactic and case-based sessions with hands-on cadaveric dissections and learning on state-of-the-art simulation models, the course will equip participants with the skills they need to start utilizing these approaches in their own practices.**

## **The Must-Attend MISS Course of the Year**

**Learn** the advanced techniques (with and without navigation) for the operative treatment of spinal disorders

**Hear** proponents and critics of MIS surgery discuss and debate MIS approaches

**Acquire** skills essential in selecting appropriate patients

**Practice** the latest techniques, including spinal navigation, using cadavers and state-of-the-art models.

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

Questions? Email [neurosurgery-subst@med.cornell.edu](mailto:neurosurgery-subst@med.cornell.edu)

**Friday, December 13, 2024**

7:30 am	Please join us in Griffis Faculty Club for breakfast, coffee, and exhibits	
7:50 am	Welcome (Uris Auditorium)	Roger Härtl, MD, and Luiz Pimenta, MD, PhD

**UPDATES IN MISS** URIS AUDITORIUM

MODERATORS: ROGER HÄRTL, MD, AND IBRAHIM HUSSAIN, MD

Time	Topic	Faculty
8:00 am	Evolution of MIS Deformity Surgery	Neel Anand, MD
8:15 am	Prone Transposas Lateral Interbody Fusion (PTP)	Luiz Pimenta, MD, PhD
8:30 am	Navigation in Spine Surgery	Roger Härtl, MD
8:45 am	Role of Endoscopy in Spine Surgery	Christoph Hofstetter, MD
9:00 am	Thoracic Disc Herniation: Tubular or Endoscopic?	Juan Uribe, MD
9:15 am	Robotics in MIS Spine Surgery	Sheeraz Qureshi, MD, MBA

9:30 AM **COFFEE AND EXHIBITS** GRIFFIS FACULTY CLUB**MASTER SERIES PART 1****MY PREFERRED SURGICAL STRATEGY (HOW AND WHY I DO THIS!)** URIS AUDITORIUM**GRADE I AND II LUMBAR SPONDYLOLISTHESIS**

MODERATORS: ROGER HÄRTL, MD, AND IBRAHIM HUSSAIN, MD

10:00 am	Zeeshan Sardar, MD
10:15 am	Dean Chou, MD
10:30 am	Michael Virk, MD, PhD

10:45 AM **COFFEE AND EXHIBITS** GRIFFIS FACULTY CLUB**DEGENERATIVE SCOLIOSIS**

MODERATORS: OSAMA KASHLAN, MD, AND ROGER HÄRTL, MD

11:15 am	Luis Pimenta, MD, PhD
11:30 am	Andrew Chan, MD
11:45 am	Luis Tumialán, MD

**1- AND 2-LEVEL LUMBAR DECOMPRESSION**

MODERATORS: GALAL ELSAYED, MD, AND ROGER HÄRTL, MD

12:00 pm	Osama Kashlan, MD
12:15 pm	Avelino Parajón, MD
12:30 pm	Xiaofeng Lian, MD

**WORKING LUNCH: VR/AR SESSION** GRIFFIS FACULTY CLUB

12:45 pm Moderators: Galal Elsayed, MD; Osama Kashlan, MD; Anthony CI, MBBS; and Mousa Hamad, MD

**MISS ENABLING TECHNOLOGIES** URIS AUDITORIUM

MODERATOR: GALAL ELSAYED, MD

1:45 pm	Introduction to Augmented Reality in Spine	Roger Hartl, MD
2:00 pm	Use of Augmented Reality Through the Microscope	Ibrahim Hussain, MD
2:15 pm	Spatial Computing Preplanning in Spine Oncology	Edward Andrews, MD
2:30 pm	Headset-Based Augmented Reality in Spine	Frank Phillips, MD
2:45 pm	Spatial Computing and MIS Navigation	Muhammad Abd-El-Barr, MD, PhD
3:00 pm	Future Horizons in Spatial Computing	Galal Elsayed, MD

3:15 pm **COFFEE AND EXHIBITS** GRIFFIS FACULTY CLUB

## SESSION IV

**SOCRATIC BATTLE** URIS AUDITORIUM

MODERATOR: MOUSA HAMAD, MD

3:30 pm	Tubes!	Roger Härtl, MD
3:45 pm	Endoscopes!	Choll Kim, MD
4:00 pm	Q&A	

## SESSION V

**MASTER SERIES PART 2: HOW WOULD YOU DO THIS?** URIS AUDITORIUM**1- TO 3-LEVEL CERVICAL DEGENERATIVE DISEASE**

MODERATORS: ROGER HÄRTL, MD, AND IBRAHIM HUSSAIN, MD

4:15 pm		Jesús Lafuente, MD
4:30 pm		J Patrick Johnson, MD
4:45 pm		K. Daniel Riew, MD

## WRAPUP

**FINAL TALKS**

5:00 pm	TBD	Juan Uribe, MD
5:15 pm	How to Build a Career in MIS and Balance Your Life	Michael Wang, MD
5:30 pm	Lifestyle Medicine: When will spine surgery become lifestyle surgery?	Roger Härtl, MD
5:45 pm	Cervical Disc Arthroplasty in Athletes	Robert Watkins, MD
6:00 pm	Closing Remarks and Lecture Evaluations	Roger Härtl, MD, and Luiz Pimenta, MD, PhD

## DAY 2

**Saturday, December 14, 2024**

7:30 am Registration and Breakfast: Please join us in Griffis Faculty Club for breakfast and coffee, then proceed to Anatomy Lab (Basement level, Room A001)



## SESSION VI

**TECHNIQUES AND HANDS-ON LAB**

7:45 am	Lab Overview/Instructions	Roger Härtl, MD
8:00 am	Surgical Demonstration and Lab Dissection	All faculty

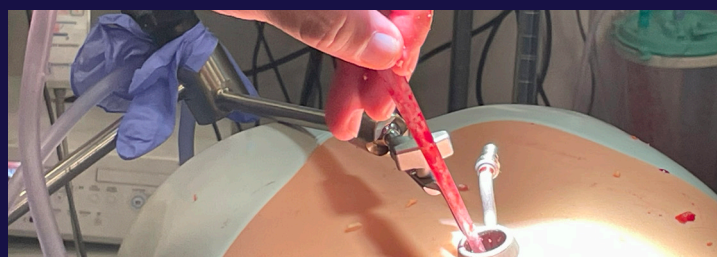
Coffee and refreshments will be available outside the lab

**WORKING LUNCH: VR/AR SESSION** GRIFFIS FACULTY CLUB

2:00 pm Moderators: Galal Elsayed, MD; Osama Kashlan, MD; Anthony CI, MBBS; and Mousa Hamad, MD

**END OF COURSE WRAP-UP**

3:30 pm Closing Remarks, Course Evaluation, Adjourn Roger Härtl, MD

**Don't Miss Our Summer Master Class**

Our new August master class has been a tremendous success since its debut in 2023. We have focused on the specifics of minimally invasive spine surgery, teaching the fundamentals of decompressions using tubular techniques as well as repairing CSF leaks using minimally invasive approaches. Strictly limited enrollment guarantees personal attention and instruction in our state-of-the-art neurosurgical training lab, using advanced spine models that simulate actual pathologies. The course has sold out quickly in the past, so please visit [nyc-miss.org](http://nyc-miss.org) to join our mailing list to be notified when a course opens for registration.

Note: This course is not accredited for CME.

Questions? Email [neurosurgery-subst@med.cornell.edu](mailto:neurosurgery-subst@med.cornell.edu)

## Fees and Registration: Lecture Only or Lecture + Hands-on Lab Course

### Lecture Series + Hands-on Laboratory Dissection

Practicing Neurosurgeons, Orthopedic Spine Surgeons, Other MDs: \$2,500

Residents/PAs/Fellows (in training): \$1,250

### Lectures Only (no access to lab)

Practicing Neurosurgeons, Orthopedic Spine Surgeons, Other MDs: \$750

Residents/Fellows (in training): \$400

APPs (NPs, PAs, RNs, other clinical): \$250

There is a 20% discount for registrations received by November 1, 2024

Discounts available for NYP-affiliated staff; email [neurosurgery-cme@med.cornell.edu](mailto:neurosurgery-cme@med.cornell.edu) for promo code.

### Register at [nyc-miss.org](https://nyc-miss.org)

Can't register online? Email [neurosurgery-cme@med.cornell.edu](mailto:neurosurgery-cme@med.cornell.edu) for offline registration information. All registrations must be paid in advance.

### REFUND POLICY

An administrative fee will be retained on all cancellations. All refund requests must be in writing and must be made by November 15, 2024. After this date, no refunds are possible.

**Please note this course is NOT available online; there is no streaming option.**

## SUMMARY

This unique annual course provides a comprehensive overview of new and less invasive techniques with and without stereotactic navigation for the operative treatment of spinal disorders. Proponents and critics of MIS surgery will discuss the pros and cons of MIS approaches, establishing the skills essential in selecting appropriate patients for MIS surgery. Practical sessions will allow the participant to apply the latest spinal techniques, including spinal navigation, both in cadavers and in state-of-the-art simulator models. Combining didactic and case-based sessions with hands-on cadaveric dissections, the course will equip participants with the skills they need to start utilizing these approaches in their own practices. Participants will have an opportunity to discuss difficult cases with the faculty during the Q&A and case presentation sessions. We will discuss in detail the six "T's" of MIS surgery.

## PRACTICE GAPS

Minimally invasive spinal surgery techniques and navigation for spinal surgery are rapidly evolving. This course will teach and update spine surgeons on the current surgical techniques and will provide up-close views of advanced new techniques. Traditional spinal surgery carries a risk for injury to back muscles and is associated with significant blood loss, long hospital stays, and extended recovery times. Recent reports on less invasive spinal surgery indicate that minimally invasive spinal surgery reduces these downsides. Minimally invasive surgery and navigation are rapidly evolving and include technically demanding techniques that require extensive training and education.

## EDUCATIONAL OBJECTIVES

It is intended that this course will lead to improved patient care, including improvements in knowledge, competence, or performance. At the conclusion of this activity, participants should be able to:

- Identify the anatomy and radiology of spinal and paraspinal structures
- Determine which types of pathology are amendable to minimally invasive spinal surgery
- Be familiar with state-of-the-art minimally invasive surgery used in these approaches
- Recognize the principles of stereotactic spinal navigation and its use for minimally invasive spinal procedures
- Debate on the pros and cons of MIS approaches and election of patients for MIS surgery

**THIS COURSE IS NOT ACCREDITED FOR CONTINUING MEDICAL EDUCATION (CME) CREDIT**

## The 6 T's of Minimally Invasive Spine Surgery

<b>Target:</b>	appropriate patient and procedure selection
<b>Technology:</b>	specialized technology that enables or facilitates MISS
<b>Technique:</b>	surgical skills and perioperative techniques and procedures
<b>Training:</b>	adequate teaching of the surgeon and collaborating team
<b>Testing:</b>	critical review and testing of surgical outcomes (research)
<b>Talent:</b>	development of surgical talent

## Target Audience

### National/ International

Designed for practicing neurosurgeons and orthopedic surgeons at any level, including residents, fellows, and early-career as well as more advanced spine specialists who would like to gain experience and develop expertise on the latest minimally invasive surgical tools and techniques. We welcome internal WCM, Columbia, and NYP providers as well as other specialty physicians from neurology, neurological surgery, general surgery, and orthopedics at private practices, clinical sites, and academic institutions worldwide.

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

## Be the first to know about future spine courses

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





# NYC-MISS 2024 Course Faculty

## COURSE DIRECTORS

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### **Roger Härtl, MD**

Hansen-MacDonald Professor of Neurological Surgery  
Weill Cornell Medicine  
Neurosurgical Director, Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

### **Luiz Pimenta, MD, PhD**

Attending Neurosurgeon  
University of California, San Diego Neurospine Surgery  
Instituto de Patologia da Coluna  
Sao Paulo, Brazil

## FACULTY

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### **Muhammad Abd-El-Barr, MD, PhD**

Associate Professor of Neurosurgery  
Duke Health

### **Neel Anand, MD**

Professor of Orthopaedic Surgery  
Medical Director, Minimally Invasive Spine Surgery  
Spine Center, Cedars Sinai Medical Center

### **Edward Andrews, MD**

Assistant Professor of Neurological Surgery  
University of Pittsburgh Medical Center

### **Andrew Chan, MD**

Assistant Professor of Neurological Surgery  
Co-Director, Minimally Invasive Scoliosis Surgery  
Director, Neurosurgical Spine Research  
Och Spine at NewYork-Presbyterian/Columbia University Irving Medical Center

### **Dean Chou, MD**

Professor and Chief of the Spine Division  
Vice Chair, Department of Neurosurgery  
Och Spine at NewYork-Presbyterian/Columbia University Irving Medical Center

### **Galal Elsayed, MD**

Assistant Professor of Neurosurgery, Weill Cornell Medicine  
Director of Quality, Och Spine at NewYork-Presbyterian Queens

### **Christoph Hofstetter, MD, PhD**

Professor of Neurological Surgery  
University of Washington Medical Center

### **Ibrahim Hussain, MD**

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

### **J Patrick Johnson, MD, MS**

Co-Medical Director, Cedars Sinai Spine Center  
Vice Chair, Department of Neurosurgery  
Cedars Sinai Medical Center

### **Osama Kashlan, MD**

Associate Professor of Neurological Surgery  
Weill Cornell Medicine  
NewYork-Presbyterian Brooklyn Methodist

### **Choll Kim, MD, PhD**

Orthopaedic Spine Surgeon  
Excel Spine Center  
UCSD Medical Center East Campus

### **Jesus Lafuente, MD**

Spine Surgeon  
Barcelona Spine Institute

### **Xiaofeng Lian, MD, PhD**

Professor of Orthopedics  
Director, Minimally Invasive Spine Surgery Center  
Director, Spine Surgery  
Shanghai 6th People's Hospital, Shanghai Jiaotong University

### **Avelino Parajón, MD**

Chief of Spine Section Neurosurgery  
Hospital Universitario Ramón y Cajal, Madrid

### **Frank Phillips, MD**

Ronald DeWald Endowed Professor of Spinal Deformities  
Director, Division of Spine Surgery  
Fellowship Co-Director, Spine Surgery  
Rush University Medical Center

### **Sheeraz Qureshi, MD**

Associate Professor, Orthopaedic Surgery  
Weill Cornell Medicine, Hospital for Special Surgery

### **K. Daniel Riew, MD**

Professor of Orthopaedic Surgery in Neurological Surgery  
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

### **Zeeshan Sardar, MD, MSc**

Associate Professor of Orthopedic Surgery  
Medical Director, Spine Unit  
Och Spine at NewYork-Presbyterian/Allen Hospital

### **Luis Tumialán, MD**

Professor of Neurosurgery  
Barrow Neurological Institute

### **Juan Uribe, MD**

Professor and Vice Chair, Department of Neurological Surgery  
Chief Division of Spinal Disorders  
Volker K. H. Sonntag Chair of Spine Research  
Barrow Neurological Institute

### **Michael Virk, MD, PhD**

Associate Professor of Neurological Surgery  
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

### **Michael Wang, MD, MBA**

Professor, Neurological Surgery & Rehab Medicine  
Spine Fellowship Director  
Chief of Neurosurgery  
University of Miami Miller School of Medicine

### **Robert Watkins, MD**

Orthopedic Spine Surgeon  
Co-Director, Watkins Spine  
Marina del Rey, California