

nyc-miss.org



Weill Cornell Medicine



NewYork-Presbyterian

NYC



MISS

2023

17th New York City MIS, Endoscopy, Robotics, 3D Navigation, and Augmented Reality Spine Symposium

DECEMBER 15-16, 2023

In person, hands-on!

Visit nyc-miss.org to register



The Must-Attend MISS Course of the Year

COURSE DIRECTORS



Roger Härtl, MD

Hansen-MacDonald Professor of Neurological Surgery
Weill Cornell Medicine
Director, Weill Cornell Medicine Center for Comprehensive Spine Care
Neurosurgical Director, Ochs 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



Weill Cornell Medicine

Center for Comprehensive Spine Care

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.

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.

WEILL CORNELL MEDICAL COLLEGE
1300 YORK AVENUE, NEW YORK, NY 10068

Visit nyc-miss.org

DAY 1: Friday, December 15, 2023

LECTURES:
BELFER RESEARCH BUILDING
413 EAST 69TH STREET
NEW YORK, NY 10021
(Between York and First Avenues)

7:30-8:00 am

Registration, Breakfast, and Exhibits
Belfer Research Building, Second and Third Floors

8:00-8:10 am

Welcome and Introduction
Belfer Research Building, Third Floor

Roger Härtl, MD, and Luiz Pimenta, MD, PhD



SESSION I

Updates on MISS (all talks 10 min with 10 min discussion)

Belfer Research Building, Third Floor

8:10-8:20 am
8:30-8:40 am
8:50-9:00 am
9:10-9:20 am
9:30-9:40 am
9:50-10:00 am

Single-Position Surgery: State of the Art
Prone Lateral: Advantages
Total Navigation: TLIF vs ELIF
Deformity MISS: Where Are We?
Thoracic Disc Herniation: MIS and Classification
Complication Avoidance with MISS

Frank Phillips, MD
Luiz Pimenta, MD, PhD
Roger Hartl, MD
Neel Anand, MD
Juan Uribe, MD
Nitin Agarwal, MD

10:10-10:30 am

MORNING BREAK: COFFEE AND EXHIBITS
Belfer Research Building, Second and Third Floors



SESSION II

Breakout Sessions, MISS Cases

"This is what I did—what would you do?"

Belfer Research Building, Second and Third Floors

10:30 am-12:00 pm

Room 1: Cases From the Masters
Cases from Themistocles Protopsaltis, Chevy Iyer, Frank Phillips
Room 2: VR Case Presentations
Cases From Roger Hartl, Michael Virk, Ibrahim Hussain, Lynn McGrath, Jr.

Moderator: Luiz Pimenta, MD, PhD
Moderator: Galal Elsayed, MD



SESSION III

Robotics in MISS

Belfer Research Building, Third Floor

12:00-12:10 pm
12:20-12:30 pm
12:40-12:50 pm

TLIF with the Robot
New Developments in Robotic Spine Surgery
Comparison of Accuracy in Robotic Spine Surgery

Sheeraz Qureshi, MD
Jesus Lafuente, MD
Ibrahim Hussain, MD

1:00 -1:40 pm

Working Lunch: Video Cases From the Masters
Belfer Research Building, Third Floor

Moderator: Rachel Bratescu, MD



SESSION IV

MISS Enabling Technologies

Belfer Research Building, Third Floor

1:40-1:50 pm
2:00-2:10 pm
2:20-2:30 pm
2:40-2:50 pm
3:00-3:10 pm
3:20-3:30 pm

Current and Future State of Robotics
3D Navigation and MISS
Current Status and Future of Spine Endoscopy
New MIS Devices for Muscle Pain
How to Incorporate Endoscopy Into Your MISS Practice
New Directions for Augmented Reality in MISS

Ronald Lehman, Jr., MD
Avelino Parajón, MD
Christoph Hofstetter, MD, PhD
Neel Mehta, MD
Sravisht (Chevy) Iyer, MD
Roger Härtl, MD

3:40-4:00 pm

AFTERNOON BREAK: COFFEE AND EXHIBITS
Belfer Research Building, Second and Third Floors



SESSION V Breakout Sessions, MISS Cases *"This is what I did—what would you do?"*

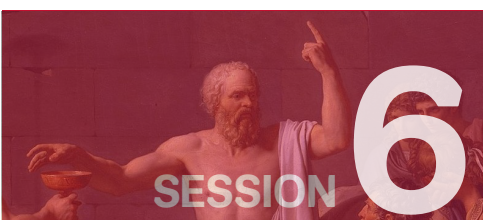
Belfer Research Building, Second and Third Floor

4:00 pm-5:00 pm

Room 1: Cases From the Masters
Cases from Themistocles Protopsaltis, Chevy Iyer, Jesus Lafuente
Room 2: VR Case Presentations
Cases From Christoph Hofstetter, Ronal Lehmann, Jr., Juan Uribe

Moderator: Luiz Pimenta, MD, PhD

Moderator: Galal Elsayed, MD



SESSION VI Socratic Battle: Grade I Spondylolisthesis & Stenosis

Belfer Research Building, Third Floor

Moderated by Roger Härtl, MD

5:00-5:10 pm

Fuse It!

Alexander Vaccaro, MD, PhD, MBA

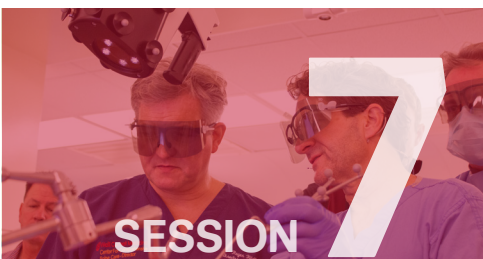
5:10-5:20 pm

Only Decompress

Zoher Ghogawala, MD

5:20-5:40 pm

Q&A



SESSION VII Special Topics in MISS

Belfer Research Building, Third Floor

5:40-5:50 pm

Social Media and MISS

Juan Uribe, MD

6:00-6:10 pm

Annular Closure Techniques in MISS

Claudius Thomé, MD

6:20 pm

Closing Remarks, Surveys and Adjourn

Roger Härtl, MD

DAY 2: Saturday, December 16, 2023

7:30-7:45 am

Registration and Breakfast
Griffis Faculty Club, 1300 York Avenue

7:45-8:00 pm

Lab Overview/Instructions

Roger Härtl, MD



SESSION VIII Techniques and Hands-on Lab

Anatomy Lab A001 (Basement Level of 1300 York Ave.)

8:00-2:00 pm

Surgical Demonstrations and Lab Dissections

All Faculty

2:00-3:30 pm

Working Lunch/VR Cases (Non Nocere)
Griffis Faculty Club

Moderators: Galal Elsayed, MD
Rachel Bratescu, MD

3:30-3:45 pm

Closing Remarks, Surveys, and Adjourn

Roger Härtl, MD

SIGN UP TO BE NOTIFIED OF OUR 2024 COURSE! VISIT [NYC-MISS.ORG](https://nyc-miss.org)

FEES AND REGISTRATION

There is a 20% discount for all registrations received before November 1, 2023

Lecture Series + Hands-on Laboratory Dissection Course

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/PAs/Fellows (in training): \$400

Discounts available for NYP-affiliated staff; email neurosurgery-cme@med.cornell.edu for promo code.

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

REGISTER ONLINE: nyc-miss.org

or email neurosurgery-cme@med.cornell.edu for other registration options. All registrations must be paid in advance.

Please note that this course is NOT accredited for CME.

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, 2023. After this date, no refunds are possible.

INFORMATION

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

TARGET AUDIENCE—NATIONAL/INTERNATIONAL

This course is intended for local, regional, national, and international practicing neurosurgeons and orthopedic spine surgeons, fellows, and residents in training. 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.

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

Don't Miss Our Summer Master Class



We held our first summer Master Class in 2023 and look forward to the 2024 class! Sign up for email notifications at nyc-miss.org

The 6 T's of Minimally Invasive Spine Surgery

Target: appropriate patient and procedure selection

Technology: specialized technology that enables or facilitates MISS

Technique: surgical skills and perioperative techniques and procedures

Training: adequate training and teaching of the surgeon and collaborating team and trainees

Testing: critical review and testing of surgical outcomes (research)

Talent: development of surgical talent

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FACULTY

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Hansen-MacDonald Professor of Neurological Surgery
Weill Cornell Medicine
Director, Weill Cornell Medicine Center for Comprehensive Spine Care
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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Director, Minimally Invasive Spine and Robotics Surgery
University of Pittsburgh Medical Center

Neel Anand, MD
Professor of Orthopedic Surgery
Director of Spine Trauma
Cedars Sinai Medical Center, Los Angeles

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

Zoher Ghogawala, MD
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Tufts University School of Medicine, Boston
Chairman of Neurosurgery
Lahey Hospital & Medical Center, Burlington

Christoph Hofstetter, MD, PhD
Professor of Neurological Surgery
University of Washington Medical Center, Seattle

Ibrahim Hussain, MD
Assistant Professor of Neurosurgery
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

Sravisht (Chevy) Iyer, MD
Assistant Professor of Orthopedics
Weill Cornell Medicine, Hospital for Special Surgery

Jesus Lafuente, MD
Spine Surgeon
Barcelona Spine Institute

Ronald Lehmann, Jr., MD
Professor of Orthopaedic Surgery, Columbia University Medical Center
Division Chief, Spine Surgery

Och Spine at NewYork-Presbyterian Allen Hospital

Lynn McGrath, Jr., MD
Assistant Professor of Neurosurgery
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

Neel Mehta, MD
Associate Professor of Clinical Anesthesiology
Division Chief, Pain Management
Co-Director, Weill Cornell Medicine Center for Comprehensive Spine Care
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center

Avelino Parajón, MD
Chief of Neurosurgery
Hospital Ruber Juan Bravo Quirón
Madrid

Frank Phillips, MD
Ronald DeWald Endowed Professor of Spinal Deformities
Director, Division of Spine Surgery
Rush University Medical Center
Chicago

Themistocles Protopsaltis, MD
Professor, Department of Orthopedic Surgery
NYU Grossman School of Medicine
Chief, Division of Spine Surgery, Department of Orthopaedic Surgery
NYU Langone Health

Sheeraz Qureshi, MD, MBA
Patty and Jay Baker Chair in Minimally Invasive Spine Surgery
Co-Chief of HSS Spine and Attending Orthopedic Surgeon
Weill Cornell Medicine, Hospital for Special Surgery

Claudius Thomé
Professor and Department Head, Neurosurgery
Medical University of Innsbruck

Juan Uribe, MD
Professor and Vice Chair, Chief of Spinal Disorders
Sonntag Chair of Spine Research
Barrow Neurological Institute, Phoenix

Alexander Vaccaro, MD, PhD, MBA
Richard H. Rothman Professor and Chairman, Department of Orthopaedic Surgery
Rothman Orthopaedics at Jefferson Health, Philadelphia

Michael Virk, MD, PhD
Associate Professor of Neurological Surgery
Och Spine at NewYork-Presbyterian/Weill Cornell Medical Center



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