NYC

⊣NewYork-Presbyterian

MISS 20 23

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



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, 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



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 Single-Position Surgery: State of the Art 8:30-8:40 am Prone Lateral: Advantages 8:50-9:00 am Total Navigation: TLIF vs ELIF 9:10-9:20 am Deformity MISS: Where Are We? 9:30-9:40 am 3D Navigation and MISS

Optimizing Trans-Kambin Surgery

10:10-10:30 am MORNING BREAK: COFFFF 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 Moderator: Luiz Pimenta, MD, PhD

Cases from Themistocles Protopsaltis, Chevy Iyer, Frank Phillips

Room 2: VR Case Presentations (NonNocere) Moderator: Galal Elsaved, MD

Cases From Roger Härtl, Michael Virk, Ibrahim Hussain, Lynn McGrath, Jr.



SESSION III

Robotics in MISS

Belfer Research Building, Third Floor

12:00-12:10 pm TLIF with the Robot 12:20-12:30 pm New Developments in Robotic Spine Surgery 12:40-12:50 pm Comparison of Accuracy in Robotic Spine Surgery

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

Frank Phillips, MD

Roger Härtl, MD

Neel Anand, MD

Avelino Paraión, MD

Muhammad Abd-El-Barr, MD, PhD

Luiz Pimenta, MD, PhD

1:00 -1:40 pm

3:00-3:10 pm

3:20-3:30 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

Current and Future State of Robotics Thoracic Disc Herniation: MIS and Classification 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 Juan Uribe, MD Christoph Hofstetter, MD, PhD Neel Mehta, MD Sravisht (Chevy) Iver, 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

Room 1: Cases From the Masters 4:00 pm-5:00 pm

Cases from Christoph Hofstetter, Juan Uribe, Claudius Thomé

Room 2: VR Case Presentations (NonNocere)

Roger Härtl, Michael Virk, Ibrahim Hussain, Lynn McGrath, Jr.

Moderator: Luiz Pimenta, MD, PhD

Moderator: Galal Elsayed, MD



SESSION VI Socratic Battle: Grade I Spondylolisthesis & Stenosis

Belfer Research Building, Third Floor

Fuse It!

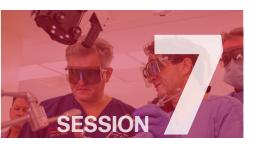
5:00-5:10 pm 5:10-5:20 pm Only Decompress

5:20-5:40 pm 08A

6:00-6:10 pm

Alexander Vaccaro, MD, PhD, MBA Zoher Ghogawala, MD

Moderated by Roger Härtl, MD



SESSION VII Special Topics in MISS

Belfer Research Building, Third Floor

5:40-5:50 pm Social Media and MISS

Annular Closure Techniques in MISS

6:20 pm Closing Remarks, Surveys, and Adjourn Juan Uribe, MD Claudius Thomé, MD

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/Mixed Reality Cases (Intravision XR? TBD) Moderators: Galal Elsayed, MD

> Griffis Faculty Club Rachel Bratescu, MD

Closing Remarks, Surveys, and Adjourn 3:30-3:45 pm Roger Härtl, MD

SIGN UP TO BE NOTIFIED OF OUR 2024 COURSE! VISIT 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 <u>neurosurgery-cme@med.cornell.edu</u> 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:

- a. Identify the anatomy and radiology of spinal and paraspinal structures
- b. Determine which types of pathology are amendable to minimally invasive spinal surgery
- c. Be familiar with state-of-the-art minimally invasive surgery used in these approaches
- d. Recognize the principles of stereotactic spinal navigation and its use for minimally invasive spinal procedures
- e. 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.

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

nyc-miss.org

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

FACULTY

COURSE DIRECTORS

Roger Hartl, MD

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

Dean Chou, MD

Muhammad Abd-El-Barr, MD, PhD Associate Professor of Neurosurgery Duke Health, Raleigh-Durham, North Carolina

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

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

Zoher Ghogawala, MD Professor, Department of Neurosurgery 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 Spine Section Neurosurgery Hospital Universitario Ramón y Cajal 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



SUPPORTERS

EDUCATIONAL GRANTS PROVIDED BY

Atec Spine Bioventus

DePuy Synthes

Globus Medical

Joimax

Medtronic

Providence Medical Technology

Spineology

Stryker

Synaptive

EXHIBITORS























