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Weill Cornell Medicine | NewYork-Presbyterian

NYC

MISS 2021

DECEMBER 9-11, 2021
via Virtual Live Stream

15th New York City Minimally Invasive Spine and Enabling Technologies Symposium

nyc-miss.org



NEWYORK-PRESBYTERIAN
Weill Cornell Medicine and
Columbia University
**#1 IN NEUROSURGERY
IN THE WORLD**



The Must-Attend MISS Course of the Year

COURSE DIRECTORS



Roger Härtl, MD
Professor of Neurological Surgery
NewYork-Presbyterian Weill Cornell Medicine
Director, Weill Cornell Medicine Center for Comprehensive Spine Care
Neurosurgical Director, NewYork-Presbyterian Och Spine



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

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

See real-time demonstrations of the latest techniques, including spinal navigation, using state-of-the-art models.

Weill Cornell Medicine | NewYork-Presbyterian
Center for Comprehensive Spine Care | Och Spine

COURSE COORDINATOR: Tatiana Soto email: neurosurgery-cme@med.cornell.edu

COURSE SUMMARY This unique course will provide 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. Live spinal surgery demonstrations will allow the participant to watch the latest spinal techniques, including spinal navigation, using state-of-the-art models.

CALL FOR ABSTRACTS
Submit your unpublished work for consideration.
Visit nyc-miss.org

**NOTE: All times are
NYC EST (GMC-5)**

Preparation materials available on the meeting hub (Registrants receive link to the hub after payment)

Please note that the pre-course webinar originally scheduled for Wednesday, December 1, 2021, has been cancelled due to a family emergency.

**In lectures, all talks are 10
minutes plus 5 minutes of Q&A**

DAY 1: Thursday, Dec. 9, 2021

The AO Spine MISS Curriculum: BLENDED LEARNING

Moderated by: Roger Härtl, MD, and Luiz Pimenta, MD, PhD

8:00am	Welcome Remarks
8:05–8:15am	The 6 Ts of MISS
8:20–8:30am	MISS Over the Top Decompression: Step by Step
8:35–8:45am	Far Lateral Discectomy
8:50–9:00am	MISS TLIF
9:05–9:15am	MISS LLIF
9:20–9:30am	MISS ALIF/OLIF
9:35–9:45am	Endoscopic Over the Top (Uniportal and Biportal Endoscopy)
9:50–10:00am	Endoscopic Transforaminal

Roger Härtl, MD
Roger Härtl, MD
Arvind Kulkarni, MD
Mohammed Assous, MD
Richard Assaker, MD
Nestor Taboada, MD
Paul Taylor, MD
Luke Kim, MD
Christoph Hofstetter, MD



**surgical
demonstration**

10:05–11:05am MIS ULBD

Surgeon: Michael Virk, MD, PhD

11:05am break



Complex MISS State of the Art

Moderated by: Dan Riew, MD, and Ibrahim Hussain, MD

11:35–11:45am	Endoscopic TLIF
11:50–12:00pm	Cervical MISS–Pedicule Screws
12:05–12:15pm	MIS Lateral ACR
12:20–12:30pm	Prone LLIF
12:35–12:45pm	MIS TLIF vs. Lateral: Pros and Cons
12:50–1:00pm	MISS Deformity Correction: Where Are We?
1:05–1:15pm	Exoscopic Visualization in MISS
1:20–1:30pm	MISS and Spinal Tumors
1:35–1:45pm	ACDF vs. TDR

Michael Wang, MD
Domagoj Coric, MD
Juan Uribe, MD
Luiz Pimenta, MD, PhD
Paul Park, MD
Neel Anand, MD
Jason E. McGowan, MD
Roger Härtl, MD
K. Daniel Riew, MD

**surgical
demonstration**

1:50–2:50pm TLIF
2:50pm end of Day 1

Surgeon: Roger Härtl, MD

DAY 2: Friday, Dec. 10, 2021



Abstract Presentations: Research in Navigation / Robotics / Planning / AR

Moderated by: Michael Virk, MD, PhD, and Ibrahim Hussain, MD

8:00-8:15am

Finalist Presentations (three 5-minute presentations; finalists to be determined)

8:15-8:20am

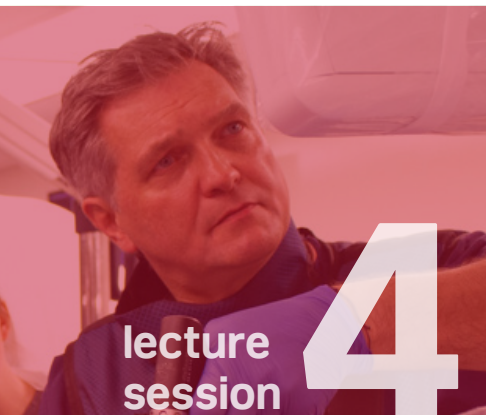
Best Paper Award

**surgical
demonstration**

8:20-9:20am

Endoscopy

Surgeon: Ralf Wagner, MD



Navigation / Robotics / Planning / AR, VR & AI

Moderated by: Adrian Terander, MD, and Daniel Sciubba, MD

9:20-9:30am

Overview: Where Are We With Navigation?

Roger Härtl, MD

9:35-9:45am

Augmented Reality and Spinal Surgery

Daniel Sciubba, MD, MBA

9:50-10:00am

Robotics

Ronald A. Lehmann, Jr., MD

10:05-10:15am

AR and MISS: New Directions

Roger Härtl, MD

10:20-10:30am

VR and Applications in Spine Surgery

Jakub Godzik, MD

10:35-10:45am

Ultrasound-Assisted Spinal Navigation

Yongjian Zhu, MD

10:50-11:00am

AR and Pedicle Screw Placement

Adrian Elmi-Terander, MD, PhD

11:05-11:15am

AI in Spine: Current Status and Future Directions

Dino Samartzis, DSc

11:20-11:45am

BREAK

Special Topics in MISS

Moderated by: Domagoj Coric, MD, and Sheeraz Qureshi, MD

11:45-11:55pm

MISS in Sports

Robert Watkins, MD

12:00-12:10pm

Single-Stage Single-Position Lateral Surgery

Sheeraz Qureshi, MD

12:15-12:25pm

Biologics for Disc Repair, Regeneration, and Replacement: Where Are We?

Gianluca Vadala, MD

Socratic Debates

12:30-1:15pm

MISS for Spinal Deformity Correction

Pro: Neel Anand, MD

Con: Zeeshan Sardar, MD

1:15pm-2:00pm

Cervical MISS: The Last Frontier

Pro: "Technology will win" Domagoj Coric, MD

Con: "Too risky" Alex Vaccaro, MD



**surgical
demonstration**

2:00-3:00pm

Cervical Laminoplasty

Surgeon: K. Daniel Riew, MD

DAY 3: Saturday, Dec. 11, 2021

Breakout Rooms: Case Presentations and Discussions

8:00-9:30am *Parallel Sessions*

Room 1

Tubular: "How I Do It"

Local Moderator: Ibrahim Hussain, MD

Paul Park, MD
Rick Fessler, MD
Roger Hartl, MD, and Rodrigo Navarro, MD

9:30-9:45am **BREAK**

9:45-11:15am *Parallel Sessions*

Room 1

TLIF, OLIF, LLIF, ALIF: What, When, and Why?

Local Moderator: Michael Virk, MD, PhD

Giuseppe Barbagallo, MD
Zeeshan Sardar, MD
Sraivisht Iyer, MD

Room 2

Endoscopic: "How I Do It"

Local Moderator: Lynn McGrath, MD

Christoph Hofstetter, MD
Albert Telfeian, MD
Ralf Wagner, MD

Room 2

Single Stage/Single Position: "How I Do It"

Local Moderator: Ibrahim Hussain, MD

Juan Uribe, MD
Frank Phillips, MD
William Taylor, MD



**surgical
demonstration**

11:15-12:15pm Posterior Cervical Foraminotomy Surgeon: Roger Härtl, MD

12:15pm break

Breakout Rooms: Case Presentations and Discussions

12:30-2:10pm *Parallel Sessions*

Room 1

Navigation / Robotics / Planning / AR

Local Moderator: Lynn McGrath, MD

Kevin Foley, MD
Paul Park, MD
Roger Härtl, MD

Room 2

Navigation / Robotics / Planning / AR

Local Moderator: Ibrahim Hussain, MD

Daniel Sciubba, MD, MBA
Adrian Elmi-Terander, MD, PhD
Luis Tumialán, MD



2:10-2:30pm Closing Remarks, Surveys, and Adjourn Roger Härtl, MD

CALL FOR ABSTRACTS! VISIT NYC-MISS.ORG

FEES AND REGISTRATION Lecture Sessions + Surgical Demonstrations
Neurosurgeons, Orthopedic Spine Surgeons, Other MDs: \$500.00
Residents/ Fellows/Other clinical: \$250.00

EARLY REGISTRATION DISCOUNT

Fully paid prior to November 30, 2021

Neurosurgeons, Orthopedic Spine Surgeons, Other MDs: \$400.00

Residents/ Fellows/Other clinical: \$150.00

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

REGISTER ONLINE: nyc-miss.org

or email neurosurgery-cme@med.cornell.edu for other registration options.

All registrations must be paid in advance.

REFUND POLICY

Refund requests must be made in writing, and an administrative fee of \$50 will be retained on all cancellations. All requests for a refund must be in writing and must be postmarked by December 1, 2021. After this date, no refunds are possible.

CME INFORMATION

ACCREDITATION AND CREDIT DESIGNATION STATEMENTS

Weill Cornell Medical College is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Weill Cornell Medical College designates this live activity for a maximum of *18.75 AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLOSURE OF RELATIONSHIPS/CONTENT VALIDITY

Weill Cornell Medical College is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

It is the policy of Weill Cornell Medical College to adhere to ACCME Criteria, Policies, and Standards for Commercial Support and content validation in order to ensure fair balance, independence, objectivity, and scientific rigor in all its sponsored activities. All speakers, Course Directors, Co-Course Directors, planners, reviewers, and staff members participating in sponsored activities are expected to disclose relevant financial relationships pertaining to their contribution to the activity. Relationship information is analyzed to determine whether conflicts of interest exist. All conflicts of interest are resolved prior to participation in the planning or implementation of this activity.

EDUCATIONAL OBJECTIVES

By the conclusion of this activity, participants should be able to:

- a. Identify the spinal and paraspinal structures;
- b. Determine which types of pathology are amenable 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 selection of patients for MIS surgery

TARGET AUDIENCE—NATIONAL/INTERNATIONAL

This CME 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.

NYC-MISS 2020

Highlights of last year's course on YouTube or at nyc-miss.org



MORE NYC-MISS

We are hoping to offer an extended webinar series in early 2022 as a followup to the NYC-MISS CME course. Please visit nyc-miss.org to sign up for our mailing list to be notified about the webinar.

nyc-miss.org

FACULTY

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Director, Weill Cornell Medicine Center for
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Neurosurgical Director, NewYork-Presbyterian Och Spine

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The University of Alabama at Birmingham

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(in Neurological Surgery)
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Neurosurgery One

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