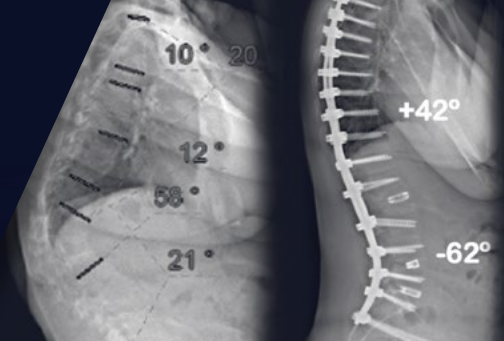


8TH ANNUAL

# International Spinal Deformity Symposium



December 2-3, 2022  
CONVENE CONFERENCE CENTER



## COURSE CHAIRS



Lawrence G.  
Lenke, MD



Frank J.  
Schwab, MD



Christopher I.  
Shaffrey, MD

## COURSE DIRECTORS



Michael  
Kelly, MD, MSc



Han Jo  
Kim, MD



Ronald A.  
Lehman, Jr., MD



Justin S.  
Smith, MD, PhD

JOINTLY PROVIDED BY



BROADWATER<sup>LLC</sup>

IN COLLABORATION WITH



# ISDS returns to New York in 2022!

The course chairs and directors invite you to attend this interactive and in-depth program on spinal deformity. Sessions are case-based and structured to tackle each deformity condition from beginning to end, including:

- Review of relevant research
- Analysis of imaging and decision-making
- Step-by-step treatment options
- Post-op outcomes and complications
- Tips & pearls from expert faculty

You'll return to your practice with numerous insights to use right away. **See you in New York!**

The chairs would like to thank  
these supporting partners:



## CHAIRS



**Lawrence G. Lenke, MD**  
Columbia University  
Medical Center,  
Och Spine Hospital  
New York, NY



**Frank J. Schwab, MD**  
Lenox Hill Hospital  
Northwell Health  
New York, NY



**Christopher I. Shaffrey, MD**  
Duke University  
School of Medicine  
Durham, NC

## DIRECTORS



**Michael Kelly, MD, MSc**  
Rady Children's Hospital,  
UC San Diego  
San Diego, CA



**Han Jo Kim, MD**  
Hospital for Special Surgery  
New York, NY



**Ronald A. Lehman, Jr., MD**  
Columbia University  
Medical Center,  
Och Spine Hospital  
New York, NY



**Justin S. Smith, MD, PhD**  
University of Virginia  
Dept. of Neurosurgery  
Charlottesville, VA

## Invited Faculty

**Christopher Ames, MD**  
UCSF School of Medicine  
San Francisco, CA

**Neel Anand, MD**  
Cedars-Sinai  
Los Angeles, CA

**Sigurd Berven, MD**  
UCSF Health  
San Francisco, CA

**Laurel Blakemore, MD**  
Pediatric Specialists of Virginia  
Fairfax, VA

**Andrew Chan, MD**  
Columbia University  
Medical Center,  
Och Spine Hospital  
New York, NY

**Sam Cho, MD**  
Mount Sinai School of Medicine  
New York, NY

**Dean Chou, MD**  
Columbia University  
Medical Center,  
Och Spine Hospital  
New York, NY

**Alan H. Daniels, MD**  
Rhode Island Hospital  
Providence, RI

**Marinus DeKleuver, MD**  
Radboud University Medical Center  
Nijmegen, the Netherlands

**Jeffrey L. Gum, MD**  
Norton Hospitals INC  
Louisville, KY

**Munish Gupta, MD**  
Washington University  
Orthopedics  
St. Louis, MO

**Stuart Hershman, MD**  
Massachusetts General Hospital  
Boston, MA

**Khaled Kebaish, MD**  
Johns Hopkins Medicine  
Baltimore, MD

**Eric Klineberg, MD**  
UC Davis  
Davis, CA

**Tyler Koski, MD**  
Northwestern Medicine  
Chicago, IL

**Virginie Lafage, MD**  
Northwell Health  
New York, NY

**Stephen Lewis, MD**  
Toronto Western Hospital and  
Hospital for Sick Children  
Toronto, CA

**Joseph M. Lombardi, MD**  
Columbia University  
Medical Center,  
Och Spine Hospital  
New York, NY

**Jonathan Oren, MD**  
Northwell Health  
Black Hall, NY

**Joseph Osorio, MD, PhD**  
UCSD  
La Jolla, CA

**Paul Park, MD**  
Weill-Cornell Medicine,  
Och Spine Hospital  
New York, NY

**Peter Passias, MD**  
NYU Langone Medical Center  
New York, NY

**Ferran Pellisé Urquiza, MD, PhD**  
Barcelona Spine Institute  
Barcelona, Spain

**David Polly, MD**  
University of Minnesota  
Minneapolis, MN

**Themistocles Protopsaltis, MD**  
NYU Langone Medical Center  
New York, NY

**Zeeshan Sardar, MD**  
Columbia University  
Medical Center,  
Och Spine Hospital  
New York, NY

**Dan Sciubba, MD**  
Northwell Health  
Great Neck, NY

**Rajiv Sethi, MD**  
Virginia Mason Medical Center  
Seattle, WA

**Lee Tan, MD**  
UCSF School of Medicine  
San Francisco, CA

*Faculty Subject to Change*

# Program | Friday, December 2, 2022

7:00 am	Registration, Breakfast, and Exhibit Viewing
8:00–9:20 am	<b>SESSION 1: 45-degree Adult Degenerative Lumbar Scoliosis, Spinal Stenosis and Mild Sagittal Malalignment with Moderate Thoracic Kyphosis: What is the Best Way to Treat and is a UT or LT UIV Best?</b>
Introduction to problem, recent literature review, and analysis and decision making based on clinical and radiographic presentation	
<b>Option #1:</b> Fusion to UT is more reliable and a better approach	
<b>Option #2:</b> Fusion ending LT ideal: faster, safer, better approach	
<b>Option #3:</b> Hybrid or MIS-only is a great option with less morbidity	
Post-op considerations, complications, return to normal function, and outcomes	
Tips and Pearls	
Case Discussion	
9:25–10:45 am	<b>SESSION 2: C-T PJK Following a Scheuermann's Kyphosis PSF with a UIV of T3 in a Middle-aged Male with Mild Cervical DDD; How to Correct and How Cephalad does One have to Go?</b>
Introduction to problem, recent literature review, and analysis and decision making based on clinical and radiographic presentation	
<b>Option #1:</b> Traction first and then I would select a UIV	
<b>Option #2:</b> 3CO or no? How to decide	
<b>Option #3:</b> Extension to C7/T1 or T2? Which UIV better and why?	
Post-op considerations, complications, return to normal function, and outcomes	
Tips and Pearls	
Case Discussion	
10:45 am	Refreshment Break and Exhibit Viewing
11:10 am–12:30 pm	<b>SESSION 3: Middle-aged Female with Prior Lumbar Congenital Fusion-in-Situ now with Progressive Deformity and Combined Coronal and Sagittal Malalignment</b>
Introduction to problem, recent literature review, and analysis and decision making based on clinical and radiographic presentation	

<b>Option #1:</b> ASF/PSF approach is best	
<b>Option #2:</b> PSF alone with PCO's will suffice	
<b>Option #3:</b> A 3CO will be needed for optimal correction	
Post-op considerations, complications, return to normal function, and outcomes	
Tips and Pearls	
Case Discussion	
12:30 pm	Lunch Break
1:00–2:25 pm	<b>SESSION 4: Technology Presentations</b> <i>Not CME accredited</i>
2:30–3:50 pm	<b>SESSION 5: What is the Best Way to Interbody Fuse Mid-lower Lumbar Spine: ALIF, LLIF, TLIF with Primary Degenerative Lumbar Spine with Stenosis and Sagittal Malalignment Due to Loss of Distal Lumbar Lordosis after a Previous 1 or 2 Level Fusion? Incorporating Technology for Optimal Solutions</b> <i>Not CME accredited</i>
Introduction to problem, recent literature review, and analysis and decision making based on clinical and radiographic presentation	
<b>Option #1:</b> Tried and true: I can get all my correction from ALIF, especially with patient specific implants	
<b>Option #2:</b> A true deformity TLIF can address realignment parameters with appropriate preoperative planning and intraoperative execution	
<b>Option #3:</b> An all lateral/oblique approach is the best of both worlds. Join the revolution?	
Post-op considerations, complications, return to normal function, and outcomes	
Tips and Pearls	
Case Discussion	
3:50 pm	Refreshment Break and Exhibit Viewing
4:10–5:30 pm	<b>SESSION 6: Special Session</b>
Keynote and Expert Lectures	
5:30 pm	Adjourn

**“Greatly informative and educational” — PAST ATTENDEE**

# Program | Saturday, December 3, 2022

7:00 am	Registration, Breakfast, and Exhibit Viewing
7:30 am	<b>Concurrent Breakout Case Discussions</b>
8:30–10:25 am	<b>SESSION 7: Adult Spinal Deformity Patient with Marked Implant Failure/Pseudarthrosis in the Lower Lumbar/Lumbosacral Region and Malalignment: How to Revise and Strategies to Prevent this from Happening</b>
	Introduction to problem, recent literature review, and analysis and decision making based on clinical and radiographic presentation
	<b>Option #1:</b> The patient needs more metal: Use of supplemental rods to revise instrumentation failure and to prevent it from happening in the first place
	<b>Option #2:</b> Supplemental rods are only delaying failure if bony fusion is not achieved: Grafting and osteobiologics strategies to salvage pseudarthrosis and prevent its occurrence
	<b>Option #3:</b> Appropriate alignment is critical for promoting solid arthrodesis and construct durability: Strategies to align the malaligned ASD patient with pseudarthrosis and implant failure
	Post-op considerations, complications, return to normal function, and outcomes
	Tips and Pearls
	Case Discussion
9:55 am	Keynote Lecture
10:25 am	Refreshment Break and Exhibit Viewing
10:45–11:40 am	<b>SESSIONS 8 &amp; 9: Concurrent Free Paper Sessions</b>
11:40 am	Lunch Break
12:10–1:30 pm	<b>SESSION 10: Technology Presentations</b> <i>Not CME accredited</i>

1:40–2:45 pm	<b>SESSION 11: Best Paper and Quick Tips</b>
2:45 pm	Refreshment Break and Exhibit Viewing
3:00–4:10 pm	<b>SESSION 12: Young Adult Balanced Idiopathic Curve: Should We Recommend Surgery or Not?</b> <i>Not CME accredited</i>
	Introduction to problem, recent literature review, and analysis and decision making based on clinical and radiographic presentation
	<b>Option #1:</b> Non-operative management
	<b>Option #2:</b> Posterior selective thoracic fusion
	<b>Option #3:</b> Anterior posterior double major fusion
	Discussion
4:10 pm	Adjourn

**“Fantastic meeting. It is extremely helpful to hear what works and what doesn’t work for ASD from a faculty that treats these difficult cases every day”**

— PAST ATTENDEE

## Course Objectives

As a result of this activity, the participant should be better able to:

- Summarize current research and best practices in analysis and decision-making in the management of adolescent and adult spinal deformity
- Describe step-by-step treatment options for optimal outcomes for adult degenerative scoliosis with stenosis; PJK following Scheuermann's kyphosis; prior fusion with coronal and sagittal malalignment; and implant failure/pseudarthrosis in the deformity patient
- Discuss the latest technology and approaches for spinal fusion for degenerative lumbar spine with stenosis and sagittal malalignment after previous fusion

## Who Should Attend

Orthopedic and neurological surgeons, fellows, and residents who include spinal deformity surgery in their practices.

## Joint Providership

This program is jointly provided by Medical Education Resources, Inc. and BroadWater, LLC.

## Accreditation Statement



JOINTLY ACCREDITED PROVIDER<sup>®</sup>  
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by Medical Education Resources (MER) and BroadWater. MER is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## Physician Credit

Medical Education Resources designates this live activity for a maximum of 10.15 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Commercial Support

Various medical companies have been invited to exhibit at this course. Full disclosure of financial and other support will be disclosed in the course syllabus materials.

## Disclosure of Conflicts of Interest

Medical Education Resources ensures balance, independence, objectivity, and scientific rigor in all our educational activities. In accordance with this policy, MER identifies conflicts of interest with its instructors, content managers, and other individuals who are in a position to control the content of an activity. Conflicts are resolved by MER to ensure that all scientific research referred to, reported, or used in a CME activity conforms to the generally accepted standards of experimental design, data collection, and analysis. MER is committed to providing its learners with high-quality CME activities that promote improvements or quality in health care and not the business interest of a commercial interest.

***“Excellent course —  
may be the best for  
degenerative spine  
nowadays”***

— PAST ATTENDEE



## Call For Abstracts

A select number of abstracts will be presented as Free Papers or E-Posters at ISDS. Submit your research for consideration in one of the following categories:

### Abstract Categories

- EOS and AIS
- Adult Deformity
- Aging Spine
- Cervical Deformity
- Neuromuscular Deformity
- Kyphosis
- Spondylolisthesis
- Complications
- Basic Science/ Genetics
- Other

**Abstract Submission Deadline:**  
September 14, 2022

**Authors Notified:**  
October 3, 2022

**Presenter Registration Deadline:**  
October 17, 2022

Submit your title, authors, and abstract text as a one-page Word attachment and email to [vbroyles@broad-water.com](mailto:vbroyles@broad-water.com).

# Registration

## Questions? Contact Us:

BroadWater, LLC  
(630) 681-1040 x300  
E: amatta@broad-water.com

## Registration Fees

Surgeon	\$915
Resident, Fellow, PA, Nurse, other Health Care Provider	\$715
Late Registration Fee (after November 3)	+\$100

Registration includes program sessions, CME credits, course materials, and meals listed in program.

## Corporate/Industry Registration

Corporate representatives must register through an exhibiting company. Please contact Val Broyles for details at vbroyles@broad-water.com or 630-681-1040 x310.

## Attendance

Register early! This course has sold out in the past. Individuals who register after the course is full will be placed on a wait list and contacted if space becomes available.

## Cancellation Policy

- Regardless of changing health and travel restrictions, you can register for ISDS without risk. You may cancel your registration for a full refund in case of health-related travel restrictions (from institution or state or federal govt.) or medical emergency.
- Cancellation for other reasons: Full refund less \$150 administrative fee if cancelled prior to November 3. No refunds after November 3. Other costs incurred by the registrant, such as airline or hotel penalties, are the responsibility of the registrant.
- In the unlikely event that we are unable to hold ISDS in person, 50% of registration fees will be refunded, and 50% of registration fees will be applied either to a virtual meeting, or to next year's meeting.

## Language

The program will be presented in English.

## Attendance

The course chairmen reserve the right to refuse admittance to anyone whose presence is considered to be incompatible with the course objectives.

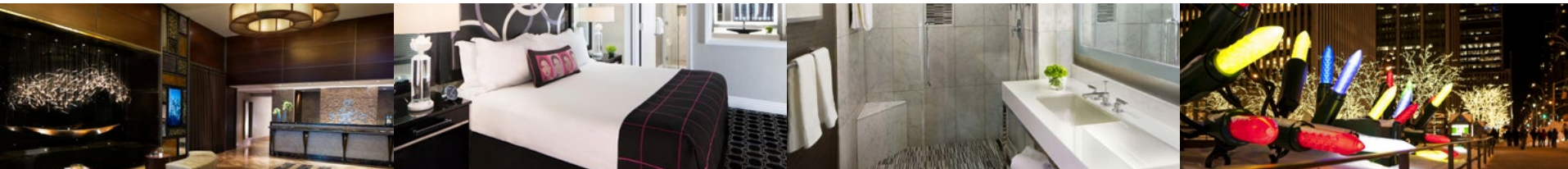
## Course Cancellation

In the unlikely event of insufficient enrollment, we reserve the right to cancel the course up to 21 days prior. Registrants will be notified and registration fees will be refunded. Airline and other costs incurred by the registrant are the responsibility of the registrant and will not be refunded.

*“Having people with immense experience talking frankly about their practice is very useful and helps to consolidate what’s important in a large body of evidence out there”*

— PAST ATTENDEE

# Location & Accommodations



## Course Location

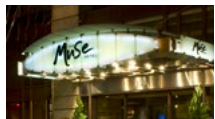
The course will be held at Convene, a modern and sophisticated event venue in West Midtown.

### Convene

117 West 46th Street  
New York, NY 10036

## Hotel Accommodations

Hotel accommodations for the meeting are offered at The Muse New York, a boutique hotel just steps from Convene, and with convenient access to all that Midtown has to offer.



### The Muse New York

130 West 46th Street  
New York, NY 10036

## Amenities

- Spacious accommodations with luxury linens and bath products
- Complimentary morning coffee and tea each day
- Complimentary wine hour each day
- Complimentary wi-fi
- Yoga mat in every room
- 24-hour fitness center

## Room Rate

\$459.00 (plus tax) for single or double occupancy

## Reservation Procedure

[Click here](#) to make hotel reservations, or call **(718)-704-7459** and mention group name *International Spinal Deformity*.

## Deadline

It is recommended that participants book their hotel rooms as soon as possible, as space will fill rapidly. Reservations at the group rate may not be available after November 3, 2022 or if the room block is full.

## Reservation Policies

A valid credit card number is required to guarantee each hotel reservation. Reservations can be cancelled without penalty at least 72 hours prior to the scheduled arrival.

## Airline Discount

Meeting attendees are invited to fly United with BroadWater's United Meetings group discount. Your individual travel rewards will still apply. Use this link to book at [United.com](https://www.united.com) with the discount applied: [ZMDE457008](#)

***“Excellent symposium, see you next year!” – PAST ATTENDEE***