



VI WORLD CONGRESS OF ENDOSCOPIC SPINE SURGERY & MISS

CONFERENCE SCHEDULE PROGRAM

4 - 7 SEPTEMBER 2025
BARILOCHE, PATAGONIA,
ARGENTINA





World Federation
SPINE ENDOSCOPY

VI

**WORLD CONGRESS OF
ENDOSCOPIC SPINE SURGERY & MISS**



BEC CENTER

BARILOCHE, PATAGONIA, ARGENTINA

4 - 7 SEPTEMBER 2025

wfse-congress.com

Scientific Information

SCIENTIFIC PROGRAM

The Preliminary Scientific Program for the 6th
WORLD CONGRESS OF SPINAL ENDOSCOPY is now
available for viewing on the WFSEC25 website

Congress Declared of National Interest by the



**PRESIDENCY OF
ARGENTINE REPUBLIC**

***This prestigious recognition highlights the importance
and relevance of our congress, bringing together experts
and professionals in the field to share knowledge and
advancements***

A great honor for our event

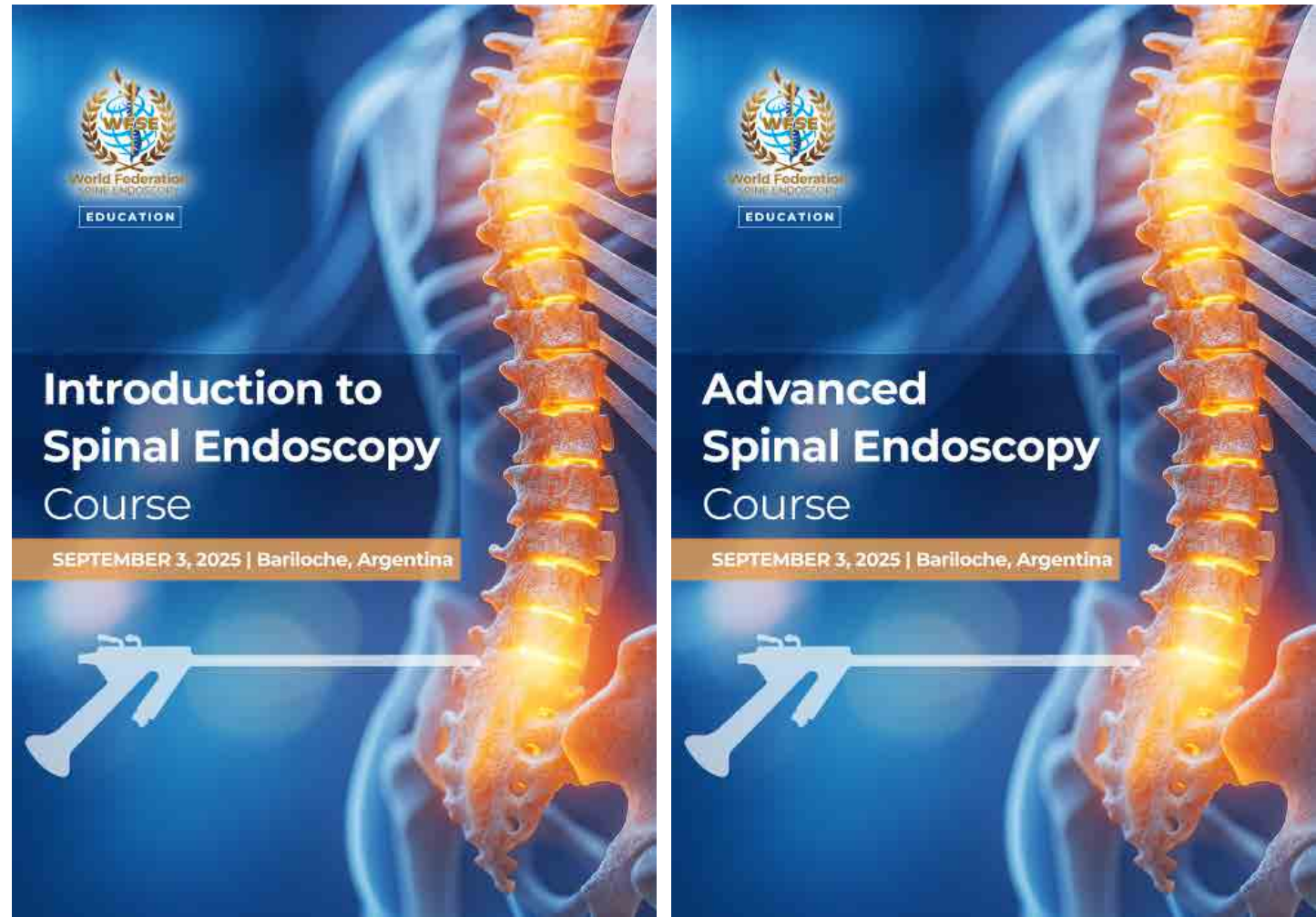
CONGRESS DAILY SCHEDULE

	WEDNESDAY 9/3	THURSDAY 9/4	FRIDAY 9/5	SATURDAY 9/6	SUNDAY 9/7
08:00					
	COFFEE BREAK EN EXHIBITION CENTER	COFFEE BREAK EN EXHIBITION CENTER	COFFEE BREAK EN EXHIBITION CENTER	COFFEE BREAK EN EXHIBITION CENTER	
09:00	PRECONGRESS COURSE & WORKSHOP	REGISTRATION & INAGURATION SPEECH			
09:30					
10:00	INTRODUCTION SPINAL ENDOSCOPY	GROUND FLOOR CONFERENCE ZONE	GROUND FLOOR CONFERENCE ZONE	GROUND FLOOR CONFERENCE ZONE	
10:30					
11:00	Introduction to Spinal Endoscopy Course	ENDORAQUIS 2025	ENDORAQUIS 2025	ENDORAQUIS 2025	
11:30					
12:00					
12:30					
13:00	LUNCH	LUNCH	LUNCH	LUNCH	DAY OF PATAGONIA
	EXHIBITION ROOM	EXHIBITION ROOM	EXHIBITION ROOM	EXHIBITION ROOM	EXPLORATION DISCOVERING THE WONDERS OF PATAGONIA
14:00	PRECONGRESS COURSE & WORKSHOP				DÍA DE TURISMO
14:30					EXPLORANDO LAS MARAVILLAS DE LA PATAGONIA
15:00	ADVANCED SPINAL ENDOSCOPY				
15:30					
16:00	Advanced Spinal Endoscopy Course				
16:30					
17:00					
	COFFEE BREAK EN EXHIBITION CENTER	COFFEE BREAK EN EXHIBITION CENTER	COFFEE BREAK EN EXHIBITION CENTER	COFFEE BREAK EN EXHIBITION CENTER	
18:00	COURSE CERTIFICATION				
18:30					
19:00					
20:00		COCKTAIL RECEPTION		GALA DINNER AWARDS GALA	
20:30		HOTEL SHERATON VENUE		WITH PRESIDENTS AND AUTHORITIES	
21:00		WELCOME CEREMONY WITH PRESIDENTS AND AUTHORITIES		DRES CODE: FORMAL ATTIRE	
21:30		DRESS CODE: ELEGANT CASUAL			

8.30 - 9:00

Coffee Break en Exhibition Center

TIME	TITLE / TOPIC	SPEAKER(S)	ROOM
9:00 - 13:00.	PRECONGRES COURSE “INTRODUCTION TO SPINAL ENCOSCOPY” (BASIC)	Chair François Lechandine	Auditorium zone
13:00 - 14:00	Lunch	Exhibition Room	
14:00 - 18:00	PRECONGRES COURSE “ADVANCED SPINAL ENDOSCOPY COURSE” (ADVANCED)	Chair Jóao Bergamaschi	Auditorium zone



COURSE CERTIFICATION

WORLD FEDERATION OF SPINE ENDOSCOPY

(WFSE)

8.30 - 9:00

Coffee Break en Exhibition Center

TIME	TITLE / TOPIC	SPEAKER(S)	ROOM
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9:00 - 9:30 HS.

REGISTRATION &
INAUGURATION SPEECH

Marisa Pérez Solís
Andrea Sinagra
Gustavo Barreiro

Auditorium
Palace
3rd floor

SESSION 1

9.30 - 11.00 HS.

Auditorium Palace

EVOLUTION AND FUTURE
VISION OF ENDOSCOPIC SPINE SURGERY
IN THE WORLD

Chairman
of the session:

Moderators:

SESSION 2

11:00 - 12.00 HS.

Auditorium Palace

LUMBAR ENDOSCOPY SURGICAL
ANATOMY AND LANDMARKS

Chairman
of the session:

Moderators:

SESSION 3

12:00 - 13.00 HS.

Auditorium Palace

UNIPORTAL LUMBAR ENDOSCOPIC
SURGERY: SCOPE & CHALLENGES

Chairman
of the session:

Moderators:

SESSION 4

13:00 - 14.00 hs.

Auditorium Palace

LUMBAR BATTLE



UpSurgeOn

UNI



UBE

ENDOLINE

SESSION 5

14:00 - 16.00

Auditorium Palace

INTRACONGRESS MEETING

SESSION 6

16:00 - 18.00

Auditorium Palace

UNILATERAL BIPORTAL ENDOSCOPY (UBE):
REVOLUTION OR EVOLUTION

20 - 21:30

COCKTAIL RECEPTION

HOTEL SHERATON VENUE

WELCOME CEREMONY WITH PRESIDENTS AND AUTHORITIES
DRESS CODE: ELEGANT CASUAL

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
14:00 - 16:00	<p>“INTRACONGRESS MEETING” WHIT WFSE ★ PRESIDENTS ★</p> <p>TOPIC: “THE CORRENT STATE OF ENDOSCOPIC SURGERY WORLDWIDE: WHAT’S NEXT?”</p>	Auditorium Palace 3rd floor

“INTRACONGRESS MEETING”

SPINAL ENDOSCOPY EVOLUTION:
“WHAT’S NEXT?”

TARGET AUDIENCE

Directed to: neurosurgeons, orthopedists, pain interventionists, residents, anatomists

OVERVIEW

The Current State of Endoscopic Surgery Worldwide: What’s Next?

The rapid evolution of endoscopic surgery has revolutionized the field of minimally invasive procedures, offering numerous benefits for patients and surgeons alike. As we continue to push the boundaries of innovation, it is essential to assess the current state of endoscopic surgery and explore future directions.

OBJECTIVES

This session aims to:

- Provide an overview of the current status of endoscopic surgery worldwide.
- Discuss recent advancements and emerging trends in the field.
- Identify challenges and opportunities for future growth and development.
- Foster collaboration and knowledge sharing among experts.

EXPECTED OUTCOMES

This session will offer a unique opportunity for participants to engage with leading experts, share experiences, and gain insights into the future of endoscopic surgery. The discussion will inform and inspire attendees, shaping the next generation of minimally invasive procedures.

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
SESSION 7	14:00 - 16.00 hs. Auditorium Palace	

"INTRACONGRESS MEETING"

SPINAL ENDOSCOPY EVOLUTION:
"WHAT'S NEXT?"

Auditorium
Palace
3rd floor

SYMPOSIUM AUTHORITIES

MEETING CHAIR ★

MALCOLM PESTONJI

World Referent Expert

Founder of Endoscopic Spine Foundation - India (ESFI)

President Founder of WFSE

President WFSEC25

PANEL MEMBERS ★

DANIEL JULIO DE ANTONI

KAI-UWE LEWANDROWSKI

SALMAN SHARIF

RODOLFO GUERRERO PÉREZ

JIN HWA EUM

PORNPAVIT SRIPHIROM

ÇİĞDEM MUMÇU

MIGUEL DUCHÉN RODRÍGUEZ

SESSION PRESENTERS ★

HAYATI AYGÜN

DANIEL J. ROSENTHAL

QUILLO OLVERA JAVIER

DIMITRIOS MARINOPOULOS

JOAO BERGAMASCHI

ANAND KAVI

RICARDO CASAL GRAU

VALENTYN PIONTKOVSKYI

EDUARDO MOREIRA PINTO

SHAWN VENTER

FRANÇOIS LECHANOINE

EDUCATION AND RESEARCH MANAGER

PhD MD Marisa Pérez Solís:

presidents@wfse-congress.com

PhD MD Andrea Sinagra:

presidents@wfse-congress.com

CONFERENCE PROGRAM

INTRACONGRESS MEETING FORMAT

This meeting features a panel discussion on "The Current State of Endoscopic Surgery Worldwide: What's Next?" with the following format:

Session Presenters: 5-minute presentations
+ 1-minute discussion

Panel Discussion: Members of the panel will ask questions and provide summaries

Meeting Chair: Will provide concluding remarks and closing comments

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
16:00 - 18:00	<p>“INTRACONGRESS SYMPOSIUM” WHIT WFSE ★ PRESIDENTS ★</p> <p>TOPIC: “UNILATERAL BIPORTAL ENDOSCOPY (UBE): REVOLUTION OR EVOLUTION”</p>	Auditorium Palace 3rd floor

“INTRACONGRESS SYMPOSIUM”

UNILATERAL BIPORTAL ENDOSCOPY (UBE):
REVOLUTION OR EVOLUTION

OVERVIEW

Unilateral Biportal Endoscopy (UBE): Revolution or Evolution

Unilateral biportal endoscopic (UBE) spine surgery is considered both an evolution and a revolution in the field, offering a minimally invasive approach that combines the benefits of traditional open surgery and uniportal endoscopy. While it builds upon existing endoscopic techniques, UBE’s distinct biportal approach allows for greater flexibility and a potentially reduced learning curve, marking a significant advancement.

EVOLUTIONARY ASPECTS

Building on Endoscopic Principles: UBE builds upon the foundation laid by earlier endoscopic spine surgeries, particularly uniportal endoscopy, which aimed to minimize tissue trauma and recovery time.

Refinement of Techniques: UBE involves the continuous refinement of surgical techniques, instrumentation, and visualization technologies, leading to improved outcomes and expanding clinical applications.

Expanding Indications: UBE’s applications have broadened over time, moving beyond simple disc herniations to address conditions like spinal stenosis, instability, and even cervical and thoracic issues.

Growing Body of Evidence: The increasing number of research papers and clinical studies focusing on UBE demonstrates its growing acceptance and refinement within the medical community.

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
16:00 - 18:00	<div>“INTRACONGRESS SYMPOSIUM”</div> <div>UNILATERAL BIportal ENDOSCOPY (UBE): REVOLUTION OR EVOLUTION</div>	Auditorium Palace 3rd floor

REVOLUTIONARY ASPECTS

Biportal Approach: The separation of visualization and working portals in UBE distinguishes it from uniportal endoscopy, offering surgeons greater flexibility, tactile feedback, and a potentially faster learning curve.

Integration of Open Surgery Principles: UBE’s biportal design allows surgeons to utilize familiar open surgical instruments and techniques, potentially making the transition to endoscopic surgery smoother and more intuitive.

Potential for Future Advancements: The development of robotics, navigation, and augmented reality in conjunction with UBE could further revolutionize the field, potentially leading to even greater precision and efficiency.

Reduced Tissue Trauma and Faster Recovery: While sharing the benefits of minimally invasive surgery with other endoscopic techniques, UBE’s biportal approach may offer further advantages in terms of reduced tissue damage, shorter hospital stays, and faster recovery times.

SYMPOSIUM AUTHORITIES

Meeting Chairmen

Malcolm Pestonji

Salman Sharif

Jorge Felipe Ramírez

Sait Naderi

Pornpavit Sriphirom

Kai-Uwe Lewandrowski

Jin Hwa Eum

Daniel Julio De Antoni

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
16:00 - 18:00	<p>"INTRACONGRESS SYMPOSIUM"</p> <p>UNILATERAL BIPORTAL ENDOSCOPY (UBE): REVOLUTION OR EVOLUTION</p>	Auditorium Palace 3rd floor

SPEAKERS IN FAVOR OF UBE AS EVOLUTION

Quillo Olvera Diego
Dimitrios Marinopoulos
Eduardo Moreira Pinto
François Lechanoine
Lonjon Guillaume

SPEAKERS IN FAVOR OF UBE AS REVOLUTION

Çiğdem Mumçu
Quillo Olvera Javier
Christian Morgenstern
Shawn Venter
Pedro Llinás Amengual

EDUCATION AND RESEARCH MANAGER

PhD MD Marisa Pérez Solís – presidents@wfse-congress.com
PhD MD Andrea Sinagra – presidents@wfse-congress.com

CONFERENCE PROGRAM

Intracongress Meeting Format

This meeting features a panel discussion on:

"The Current State of Endoscopic Surgery Worldwide: What's Next?"

With the following format:

Session Presenters: 5-minute presentations + 1-minute discussion

Panel Discussion: Members of the panel will ask questions and provide summaries

Meeting Chair: Will provide concluding remarks and closing comments

8.30 - 9:00

Coffee Break en Exhibition Center

TIME **TITLE / TOPIC** **SPEAKER(S) / ROOM**

SESSION 8 **8.30 - 11.00 hs.** **Auditorium Palace**

FULL ENDOSCOPIC SURGERY FOR THORACIC PATHOLOGY: INNOVATIONS AND TECHNOLOGIES

Chairman
of the session:

Moderators:

SESSION 9 **10:00 - 11.30 hs.** **Auditorium Palace**

THORACIC SPINE ENDOSCOPIC TECHNIQUES. REAL WORLD CASES AND SOLUTIONS

Chairman
of the session:

Moderators:

SESSION 10 **11:30 - 13.00** **Intracongress Symposium**

“INTRACONGRESS SYMPOSIUM”

TRIBUTE TO
DR. JORGE FELIPE RAMÍREZ
CLEMI - LESS & ELLIQUENCE
(WFSE & ENDORAQUIS 25)

Auditorium
Palace
3rd floor

HISTORIA, EVOLUCIÓN Y AVANCES DE LA CIRUGÍA ENDOSCÓPICA DE COLUMNA EN AMÉRICA

El Dr. Jorge Felipe Ramírez León es pionero de la cirugía mínimamente invasiva de columna en América Latina, y forma parte de varias de las sociedades de ortopedia a nivel mundial como AOS, NASS, Miembro Correspondiente de la Academia Nacional de Medicina, y recibió la Orden de Caballero otorgada por el Senado de la República de Colombia en el año 2019.

Se destacan su capacidad de liderazgo, vocación, tenacidad, curiosidad y éxito. Fue el gestor del Centro Latinoamericano de Investigación y Entrenamiento en Cirugía de Mínima Invasión (CLEMI) y también comparte sus destrezas con su visión empresarial como conferencista internacional.

En el 2023 se realizó en Colombia la presentación del evento científico y académico:
“América Latina: 30 años a la vanguardia de la cirugía endoscópica de columna”

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
SESSION 10	11:30 - 13.00	Intracongress Symposium

TARGET AUDIENCE

Directed to: neurosurgeons, orthopedists, pain interventionists, residents, anatomists

OVERVIEW

Simposio Internacional Intracongreso: Homenaje al Dr. Jorge Felipe Ramírez

Un tributo a la innovación en cirugía endoscópica & mínimamente invasiva de columna

Este simposio y taller avanzado está diseñado para ortopedistas, neurocirujanos y especialistas en dolor que buscan perfeccionar sus habilidades en técnicas quirúrgicas endoscópicas de vanguardia para tratar afecciones de la columna vertebral.

Información práctica

Simposio gratuito para asistentes al congreso de la WFSE

SYMPOSIUM AUTHORITIES

Chair of Education Committee

DR. JOSÉ GABRIEL RUGELES ORTÍZ

Orthopedist & Spinal Endoscopy Expert

President SILACO

Chairman Scientific Program WFSE

Director of Education and Research

GABRIEL OSWALDO ALONSO CUÉLLAR DVM MSc

Director de Educación e Investigación

Education and Research Manager

SESSION PRESENTERS ★

JOAO BERGAMASCHI

RICARDO CASAL GRAU

KAI LEWANDROWSKI

GABRIEL ALONSO

JAVIER QUILLO OLVERA

JOSÉ GABRIEL RUGELES

Session Organizers

PHD MD Marisa Pérez Solís

PHD MD Andrea Sinagra

GUEST OF HONOR ★

DR JORGE FELIPE RAMÍREZ

PANEL MEMBERS ★

BARREIRO GUSTAVO, ARGENTINA

GUILLERMO FRUCELLA, ARGENTINA

SEBASTIÁN BELCHIOR, ARGENTINA

DIEGO QUILLO OLVERA, MÉXICO

ÁLVARO DOWLING, CHILE

TIME	TITLE / TOPIC - SPEAKER(S)	ROOM
SESSION 10	11:30 - 13.00	Intracongress Symposium

CONFERENCE PROGRAM

Intracongress Meeting Format

This meeting features a panel discussion on "The Current State of Endoscopic Surgery Worldwide: What's Next?" with the following format:

- Session Presenters:

5-minute presentations + 1-minute discussion

- Panel Discussion:

Members of the panel will ask questions and provide summaries

- Meeting Chair:

Will provide concluding remarks and closing comments

CONFERENCE PROGRAM

- Evolución y mi visión del futuro de la Endoscopia de Columna en América Latina. **Dr. Jorge Ramírez**
- Evolución y mi visión del futuro de la Endoscopia de Columna en Estados Unidos. **Dr. Kai Lewandrowski**
- Evolución y mi visión del futuro de la Endoscopia de Columna en Europa. **Dr. Ricardo Casal Grau**
- Evolución y Visión de Futuro de la Endoscopia de Columna en el Mundo. **Visión de la WFSE**
- ¿Cómo se enseña y cómo se aprende ESS? Modelo de educación de endoscopia en América. **G. Alonso**
- Desarrollo de la Cirugía percutánea endoscópica y no endoscópica en México. **Dr. Javier Quillo**
- Desarrollo y Enseñanza de la Cirugía Endoscópica en Brasil. **Dr. João Bergamaschi**
- Desarrollo de la Cirugía percutánea endoscópica y no endoscópica en Uruguay. **Dr. Nicolás Galli**
- Desarrollo de la cirugía endoscópica de columna en Argentina. Historia y perspectivas. **Dra. M. Pérez**
- "Tres Décadas, un mismo Rumbo: Respeto y Confianza" **Dr. José Gabriel Rugeles**

Palabras de cierre a cargo del Dr. José Gabriel Rugeles

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
13:00 - 14:00	Lunch	Exhibition Room
SESSION 11	14.00 - 16.00	Auditorium Palace

"INTRACONGRESS MEETING"

WITH WFSE PRESIDENTS★ & AUTHORITIES★
PRELIMINARY SCIENTIFIC PROGRAM
ENDOSCOPIC SPINE SURGERY
A CHANGE IN PARADIGM

Overview

Endoscopic spine surgery has revolutionized the way we approach spinal diseases. With technological advancements and innovative techniques, this surgical modality has proven to be safe and effective in treating various spinal conditions. In this world congress, we will bring together experts and healthcare professionals from around the globe to discuss the latest advancements and techniques in endoscopic spine surgery.

Objectives:

- To present the latest advancements and techniques in endoscopic spine surgery.
- To discuss the clinical applications and benefits of endoscopic spine surgery.
- To foster collaboration and exchange of ideas among experts and healthcare professionals.
- To establish a forum for discussion and debate on the challenges and opportunities in endoscopic spine surgery.

Topics:

- Advances in techniques and technologies for endoscopic spine surgery.
- Clinical applications of endoscopic spine surgery in various conditions.
- Outcomes and complications of endoscopic spine surgery.
- Future of endoscopic spine surgery and its impact on clinical practice.

Benefits:

- Learn from experts in endoscopic spine surgery.
- Stay updated on the latest advancements and techniques in the field.
- Establish contacts and collaborations with healthcare professionals worldwide.
- Contribute to the advancement of endoscopic spine surgery and its application in clinical practice.

Target Audience:

- Spine surgeons and orthopedic surgeons.
- Neurosurgeons and pain specialists.
- Healthcare professionals interested in endoscopic spine surgery.
- Researchers and academics in the field of spinal surgery.

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
SESSION 11	14.00 - 16.00	Auditorium Palace

Format:

- Keynote lectures.
- Case presentation sessions.
- Panel discussions.
- Q&A sessions.

Target Audience:

Directed to neurosurgeons, orthopedists, pain interventionists, residents, anatomists.

We look forward to your participation in this world congress and contributing to the advancement of endoscopic spine surgery.

Intracongress Meeting Format

This meeting features a panel discussion on “Endoscopic Spine Surgery: A Change in Paradigm” with the following format:

- Session Presenters: 5-minute presentations + 1-minute discussion
- Panel Discussion: Members of the panel will ask questions and provide summaries
- Meeting Chair: Will provide concluding remarks and closing comments

CONFERENCE PROGRAM

1. Paradigm shifting of endoscopic spine surgeries
2. Trends and Changes in the Endoscopic Spinal Surgery
3. New Systems of Endoscopic Spine Surgery
4. Paradigm shifting of Endoscopic Spine Approaches
5. Future & Perspective of Endoscopic Spine Surgery
6. Limitations & Learning Curve
7. Advancements, Indications, and Outcomes
8. Virtual reality in spinal endoscopy: a paradigm shift in education
9. Innovations and future directions
10. The future of spine imaging
11. A New Era in Spine Surgery: Endoscopic Fusion
12. Unilateral Biportal Endoscopy: from decompression to fusion
13. NEW SURGICAL TECHNOLOGIES

Closing Remarks and Conclusions by Dr. Malcolm Pestonji, President of WFSE Society

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
13:00 - 14:00	Lunch	Exhibition Room
SESSION 12	16:00 - 18.00	Auditorium Palace

“INTRACONGRESS SYMPOSIUM”
WITH WFSE - ESUBE / PRELIMINARY SCIENTIFIC

“HOW I DO IT”
REAL-LIFE CASES:
CHALLENGES AND SOLUTIONS

Symposium Overview

Title: "Mastering Unilateral Biportal Endoscopic Spine Surgery (UBE): Techniques and Real-World Applications"

"How I Do It" Segment:

Expert surgeons share their personal approaches and techniques for performing UBE procedures
Step-by-step guides and practical tips for mastering UBE

"Real-Life Cases: Challenges and Solutions" Segment:

- Presentations of real-world cases showcasing challenges and solutions in UBE
- Expert panel discussions on how to overcome common obstacles and achieve successful outcomes
- Case studies highlighting the application of UBE in various spine surgery scenarios

What is UBE?

- A minimally invasive surgical technique for treating various spinal conditions
- Utilizes two portals for endoscopic visualization and instrumentation
- Allows for precise decompression and stabilization of the spine

Benefits of UBE:

- Reduced tissue damage and trauma
- Less postoperative pain and recovery time
- Improved visualization and precision
- Potential for faster return to normal activities

Key Components of UBE:

- Endoscopic visualization
- Biportal approach
- Precise instrumentation
- Minimally invasive technique

Indications for UBE:

- Degenerative disc disease
- Herniated discs
- Spinal stenosis
- Spondylolisthesis
- Other spinal conditions

Current Status and Future Directions:

- Evolving technique with ongoing research and development
- Increasing adoption and popularity among spine surgeons
- Potential for expanded applications and indications

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
13:00 - 14:00	Lunch	Exhibition Room
SESSION 12	16:00 - 18.00	Auditorium Palace

UBE is a promising minimally invasive surgical technique for treating various spinal conditions. Its benefits, indications, and key components make it an attractive option for patients and surgeons alike. As the technique continues to evolve, it is likely to play an increasingly important role in the treatment of spinal disorders.

Objectives:

- To provide a comprehensive understanding of UBE techniques and applications
- To share practical experience and real-world solutions for overcoming challenges in UBE
- To facilitate discussion and knowledge-sharing among expert surgeons and attendees

Expected Outcomes:

- Improved understanding of UBE techniques and applications
- Practical knowledge and skills for performing UBE procedures
- Insights into real-world challenges and solutions in UBE Endoscopic spine surgery has revolutionized the way we approach spinal diseases.
- With technological advancements and innovative techniques, this surgical modality has proven to be safe and effective in treating various spinal conditions. In this world congress, we will bring together experts and healthcare professionals from around the globe to discuss the latest advancements and techniques in endoscopic spine surgery.

Format:

- Keynote lectures
- Case presentation sessions
- Panel discussions
- Q&A sessions

Target Audience:

Directed to neurosurgeons, orthopedists, pain interventionists, residents, anatomists.

We look forward to your participation in this world congress and contributing to the advancement of endoscopic spine surgery.

Intracongress Meeting Format

This meeting features a panel discussion on "How I Do It" and "Real-Life Cases: Challenges and Solutions" with the following format:

- Session Presenters: 5-minute presentations + 1-minute discussion
- Panel Discussion: Members of the panel will ask questions and provide summaries
- Meeting Chair: Will provide concluding remarks and closing comments

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
13:00 - 14:00	Lunch	Exhibition Room
SESSION 12	16:00 - 18.00	Auditorium Palace

Conference Program

1. New Paradigm of Endoscopic Spine Surgery: Unilateral Biportal Endoscopic Spinal Surgery
2. Unilateral biportal endoscopic decompression for degenerative lumbar canal stenosis
3. Learning Curve and Complications of Unilateral Biportal Endoscopy
4. Different surgical approaches in UBE: planning our surgeries
5. Managing Complications in UBE: Presentations and discussions on managing complications in UBE, including strategies for preventing and treating common complications
6. Comparative Outcomes of UBE vs. Other Surgical Techniques: Comparative studies on the outcomes of UBE versus other surgical techniques, such as open surgery or traditional endoscopic surgery
7. Complex Clinical Cases in UBE: Presentations of complex clinical cases in UBE, including challenges and solutions in the treatment of complex spinal pathologies
8. New Technologies and Tools in UBE: Presentations on the latest technologies and tools used in UBE, including navigation systems and robotics
9. Long-Term Outcomes in UBE: Studies on the long-term outcomes of UBE, including evaluation of efficacy and safety over time
10. UBE TLIF: fusion in UBE

Debate Topics

- UBE vs. Open Surgery: Which is the Better Option?: Debate on the advantages and disadvantages of UBE compared to open surgery.
- The Future of UBE: Where Are We Heading?: Discussion on the future of UBE and potential directions the technique may take.

Topics of Interest for Attendees

- Starting a UBE Program in My Hospital: Presentations and discussions on how to start a UBE program in a hospital, including planning and implementation.
 - Practical Tips for Performing UBE Safely and Effectively: Presentations and discussions on practical tips for performing UBE safely and effectively, including techniques and strategies for minimizing complications.
- Closing Remarks and Conclusions by President of ESUBE & WFSE Societymarks and Conclusions by President of ESUBE & WFSE Society

8.30 - 9:00

Coffee Break en Exhibition Center

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
SESSION 13	9.00 - 11.30 hs.	Auditorium Palace

"INTRACONGRESS SYMPOSIUM"
PRELIMINARY SCIENTIFIC PROGRAM

"CERVICAL ENDOSCOPY IN FOCUS: THE NEW ERA OF SPINE SURGERY"

Symposium Overview

Title: *"CERVICAL ENDOSCOPY in FOCUS: The New Era of Spine Surgery"*

How I Do It? / Real Life Cases

Summary: Cervical endoscopy is an innovative technique that is revolutionizing spine surgery. In this Symposium, we will present the latest advances and benefits of this technique, as well as its impact on the future of spine surgery.

"How I Do It" Segment:

- Expert surgeons share their personal approaches and techniques for performing CERVICAL procedures
- Step-by-step guides and practical tips for mastering CERVICAL ENDOSCOPIC SPINE SURGERY

"Real-Life Cases" Segment:

- Presentations of real-world cases showcasing challenges and solutions in CERVICAL ENDOSCOPIC SPINE SURGERY
- Expert panel discussions on how to overcome common obstacles and achieve successful outcomes
- Case studies highlighting the application of Cervical UBE in various spine surgery scenarios

Format:

- Keynote lectures
- Case presentation sessions
- Panel discussions
- Q&A sessions

Target Audience:

Directed to neurosurgeons, orthopedists, pain interventionists, residents, anatomists.

We look forward to your participation in this world congress and contributing to the advancement of endoscopic spine surgery.

8:30 - 9:00 COFFE BREAK

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
SESSION 13	9.00 - 11.30 hs.	Auditorium Palace

Intracongress Meeting Format

This meeting features a panel discussion on "How I Do It" and "Real-Life Cases: Challenges and Solutions" with the following format:

- Session Presenters: 5-minute presentations + 1-minute discussion
- Panel Discussion: Members of the panel will ask questions and provide summaries
- Meeting Chair: Will provide concluding remarks and closing comments

CONFERENCE PROGRAM

1. Cervical spondylotic radiculopathy and cervical spondylotic myelopathy
2. Indications in Cervical Endoscopic Spine Surgery
3. Advantages of Full-Endoscopic Cervical Spine Surgery
4. Posterior Endoscopic Cervical Foraminotomy/Discectomy (PECF/PECD)
5. Anterior Endoscopic Cervical Discectomy (AECD)
6. Cervical Endoscopic Unilateral Laminotomy for Bilateral Decompression (CE-ULBD)
7. Steep Learning Curve
8. Limitations with Multiple-Level Lesions
9. Image-Guided Navigation System/Instrument Tracking System
10. Future Directions in Cervical Endoscopic Spine Surgery
11. Minimally Invasive Posterior Cervical Decompression and Fusion
12. Patient-Specific Surgical Planning

Debate Topics

1. Advantages and Disadvantages of Cervical Endoscopic Surgery Compared to Traditional Open Surgery
2. Indications and Contraindications for Cervical Endoscopic Surgery
3. Long-term Outcomes of Cervical Endoscopic Surgery Compared to Other Surgical Techniques
4. The Role of Technology in Improving Accuracy and Safety in Cervical Endoscopic Surgery
5. The Importance of Training and Experience in Performing Cervical Endoscopic Procedures
6. Managing Complications in Cervical Endoscopic Surgery
7. The Cost-Effectiveness of Cervical Endoscopic Surgery Compared to Other Treatment Options
8. The Future of Cervical Endoscopic Surgery: What Innovations Can We Expect?

Closing Remarks and Conclusions by President of WFSE

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
SESSION 14	11.30 - 13:00	Auditorium Palace

"INTRACONGRESS SYMPOSIUM & WORKSHOP"

**TRIBUTE TO
DR. PARVIZ KAMBIN**
(ISMISS - SICOT & WFSE)

NEUROANATOMICAL REFINEMENT OF KAMBIN'S TRIANGLE AND ITS APPLICATION IN SPINAL ENDOSCOPY

Dr. Parviz Kambin was the first to describe a working space within the intervertebral foramen, through which the spinal canal can be safely accessed. Due to its somewhat triangular shape, this safe zone was termed the "Kambin triangle".

Target Audience

Directed to: neurosurgeons, orthopedists, pain interventionists, residents, anatomists

OVERVIEW

The INTRACONGRESS SYMPOSIUM & WORKSHOP "Tribute to Dr. Parviz Kambin" (ISMISS – SICOT & WFSE) is an advanced training course held for orthopedists, neurosurgeons, and pain specialists who treat spinal conditions with cutting-edge full-endoscopic surgical technique. This tribute symposium highlights the outstanding contribution of Dr. Kambin's work to spine surgery and endoscopic spine surgery, focusing on transforaminal approaches.

The symposium is a comprehensive instructional series that delves into the intricacies of a new anatomical perspective and its application in spinal endoscopy. The program is already available and it's a free symposium for attendees to the WFSE congress.

SYMPOSIUM AUTHORITIES

Chair of Education Committee:

Dr. Med. Christian Morgenstern

PhD Dipl.- Ing. Orthopedic and Endoscopic Spine Surgeon, Biomedical Engineer

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
SESSION 14	11.30 - 13:00	Auditorium Palace

President WFSEC25

Course Faculty:

Jin Hwa Eum – Korea

Amit Jhala – India

Pornpavit Sriphirom – Thailand

Javier Quillo Olvera – Mexico

François Lechanoine – Italy

Bertonha César – Brazil

Uwe Kai Lewandrowski – USA

Director of Education and Research:

Hayati Aygün

Education and Research Manager:

PHD MD Marisa Pérez Solís

PHD MD Andrea Sinagra

CONFERENCE PROGRAM

- Kambin's Triangle: New technical considerations
- The History of and Controversy over Kambin's Triangle
- Kambin's Triangle: Definition and new classification schema
- Full-Endoscopic Trans-Kambin Triangle Lumbar Interbody Fusion
- Analysis of the Lumbar Transforaminal Corridor for Endoscopic and Surgical Approaches
- Kambin's Triangle Dimensions: A Critical Review of Their Role in Surgical Planning and Training
- Percutaneous TransKambin Endoscopic Lumbar Interbody Fusion
- Anatomical assessment of the Kambin's triangle for percutaneous posterolateral transforaminal endoscopic surgery of lumbar intervertebral discs: a MRI imaging-based study
- How good is trans-Kambin TLIF with a large-footprint interbody compared to ALIF? – Dr. Christian Morgenstern

Closing Remarks and Conclusions by Chair of Education Committee & WFSE Society

TIME	TITLE / TOPIC	SPEAKER(S) / ROOM
SESSION 15	14:00 - 15:00	Auditorium Palace

CERVICAL - SCIENTIFIC PAPER PRESENTATIONS

 Chairman
of the session:

Moderators:

SESSION 16	15:00 - 16:00	Auditorium Palace
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THORACIC - SCIENTIFIC PAPER PRESENTATIONS

 Chairman
of the session:

Moderators:

SESSION 17	16:00 - 17:00	Auditorium Palace
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LUMBAR - SCIENTIFIC PAPER PRESENTATION

 Chairman
of the session:

Moderators:

• Presentation of Scientific Papers and Posters

- Oral Presentation of Scientific Papers: Share the results of innovative and relevant research in the field of endoscopic spine surgery.
- Poster Exhibition: Visually showcase the findings and conclusions of studies and research projects related to endoscopic spine surgery

• Awards for Abstracts and Posters

- Abstract Awards: Recognize and reward the best research abstracts presented at the congress, selected for their originality, relevance, and impact in the field.
- Poster Awards: Award the best posters presented at the congress, evaluated for their scientific content, visual presentation, and contribution to knowledge in the field of cervical endoscopy.

Scientific Paper Presentations and Poster Exhibitions

- Scientific Paper Presentations
- Poster Exhibitions
- Abstract Awards
- Poster Awards

16:00 - 17:00	Auditorium Palace
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ANUAL WFSE SOCIETY MEMBERS MEETING

20 - 21:30	GALA DINNER / AWARDS GALA	GALA WITH ★ PRESIDENTS AND AUTHORITIES ★
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