Global Spine Congress 2026

AO SPINE

Istanbul, Turkey

May 27–30, 2026

FINAL PROGRAM



Your guide to the scientific program

Istanbul Congress Center (ICC)

globalspinecongress.org

#GSCIstanbul

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THE GLOBAL SPINE CONGRESS APP

Make sure you keep up-to-date with the latest information throughout Global Spine Congress 2026 by downloading our official Congress app to your iOS or Android device.



FEATURES

- An interactive program with full information on speakers, topics and locations
- A complete guide to the E-posters
- Information about the venue, including opening times
- Floorplans so that you can easily find your way around
- Download congress materials and resources
- Engage with live polls
- Rate talks and sessions to share feedback

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- **LinkedIn:** linkedin.com/company/aospine

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Welcome

From the Congress Chairperson



We are pleased to welcome you to this year's edition of the Global Spine Congress (GSC). We are thrilled to present you with the final program that will bring together leading experts, researchers, and professionals in the field of spine surgery from around the world.

The Global Spine Congress has earned a reputation as a premier platform for knowledge exchange, collaboration, and innovation in the field of spine care. GSC continues to evolve and offer an even more enriching and diverse program. We are confident that GSC 2026 will exceed all expectations and provide a truly exceptional experience for all participants.

The final program is the culmination of months of planning, review, and careful selection of the most relevant and cutting-edge topics within the spine care field. It is designed to provide a comprehensive scientific experience, that caters to the wide range of interests and specialties of our attendees.

During the Congress, you can expect a wide range of sessions, including symposia, E-posters, theater, and rapid-fire sessions. Our world-renowned speakers will share their expertise, insights, and the latest research findings in spine surgery, including topics covering degenerative, deformity, oncology, and MIS. The GSC brings together industry, surgeons, and healthcare providers to share experiences and success stories. This provides both networking and educational opportunities to the global community.

To help you plan your time in Istanbul, and to make the most of the GSC, our final program provides detailed information about the schedule, session topics, speakers and other essential logistical details.

Once again, we welcome you to the GSC and thank you for your valuable contribution to the congress. Your presence and active participation will undoubtedly enhance the Congress and contribute to its success.



Jeffrey Wang | Congress Chairperson

Contents

3	Welcome
4–5	Organizing and Program Committees
7	Pre-Courses
8–10	General Information A-Z
11	Awards Ceremonies
13–16	At-a-Glance Schedule
17–26	Wednesday Program Schedule
27–46	Thursday Program Schedule
47–68	Friday Program Schedule
69–83	Saturday Program Schedule
84–113	Rapid-Fire and Theater Sessions
114–124	Sponsors and Exhibitors
125	Societies and Publishers
126	Exhibition Floorplan
127	Theater Sessions Overview
128–132	Instructional Course Lectures, Theater Sessions, and Meet the Experts

Organizing Committees

Executive Committee



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Congress
Chairperson



Juan Emmerich
Congress
Co-chairperson



Asdrubal Falavigna
Congress
Co-chairperson



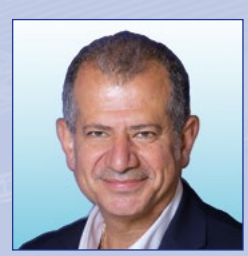
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Alpaslan Senkoylu
Regional
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Muzahem Taha
Regional
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Jeffrey C. Wang



Jean Jacques Abitbol



Patrick Hsieh



Serena Hu



Ahmet Alanay



Juan Emmerich



Alpaslan Senkoylu



Muzahem Taha

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David Love	USA
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Sven Vetter	Germany
Luiz Vialle	Brazil
Lennart Viezens	Germany
Gomatam Vijay Kumar	India
Matjaz Vorsic	Slovenia
Kota Watanabe	Japan
Joe Weiner	USA
Yun-Hom Yau	Australia
Caglar Yilgor	Turkey
Emre Yilmaz	Germany
Qiu Yong	China
Manaf Younis	USA
Yasutsugu Yukawa	Japan
Ratko Yurac	Chile
Alberto Zerbi	Italy
Zezhang Zhu	China

PRE-COURSES AND WORKSHOPS

Global Spine Congress 2026 features a range of pre-courses exploring some of the hottest topics and techniques for today's spine care specialists. Please note that you need to be registered for the GSC to attend pre-courses.

Pricing for the pre-courses:
- Half-day €150 (AM or PM)
- Full day €250 (AM and PM)

Please note that the price enables you to go back and forth between pre-courses.

Pricing for the **hands-on** workshops:
- €300

Wednesday, May 27, 2026 Room 1 08:00–12:00	**Spinal Interventions**
Wednesday, May 27, 2026 Room 2 08:00–12:00	Pre-Course by AO Spine Knowledge Forum Spinal Cord Injury and Knowledge Forum Tumor–Intraoperative Ultrasound: **From Basic Principles to Advanced Applications for Spine Trauma, Spinal Cord Injury and Spine Oncology**
Wednesday, May 27, 2026 Room 3 08:00–12:00	**Updates in Endoscopic Spine Surgery—Second Edition**
Wednesday, May 27, 2026 Room 4 08:00–12:00	**Oblique Lateral Lumbar Interbody Fusion (OLLIF): Trans-Kambin Access for MIS Lumbar Fusion**
Wednesday, May 27, 2026 Room 6 and Room 5 08:00–12:00	HANDS-ON **Basic Endoscopic Spine Surgery**
Wednesday, May 27, 2026 Room 1 13:00–17:00	**Fundamentals and Advances in Full Endoscopic Spine Surgery**
Wednesday, May 27, 2026 Room 3 13:00–17:00	**Tubes vs Endoscopes: What is More Effective for Patients and Surgeons?**
Wednesday, May 27, 2026 Room 4 13:00–17:00	AO Spine Youth Club Pre-Course: **Present and Future of Young Spine Surgeons**
Wednesday, May 27, 2026 Room 6 and Room 5 13:00–17:00	HANDS-ON **Advanced Endoscopic Spine Surgery**



General Information (from A-Z)

AO Spine booth

Discover the leading global community of spine surgeons! Stop by the AO Spine booth, and connect with AO Spine and the leading authorities in your field.

We will be pleased to answer any questions you may have about AO Spine and our latest developments in Education, Research, Membership, and Networking. We will also help you sign up or renew your AO Spine membership. Find out more about the exclusive membership privileges and how you can make the most out of your GSC experience in Istanbul. Join our AO Spine members-only sessions and access to members' networking events.

Opening times:

Thursday, May 28	**08:00–19:30**
Friday, May 29	**07:00–18:30**
Saturday, May 30	**07:00–13:45**

AO Spine membership registration desk

Sign up or renew your AO Spine membership! Find out more about the exclusive membership privileges and how you can make the most of your GSC experience.

Opening times:

Wednesday, May 27	**07:30-18:30** (at the registration desk)
Thursday, May 28	**08:00-19:30** (at the AO Spine booth)
Friday, May 29	**07:00-18:00** (at the AO Spine booth)
Saturday, May 30	**07:00-13:45** (at the AO Spine booth)

Barcode/QR code scanning

Participants could be asked by staff from industries at exhibit booths to provide their personal contact data through barcode/QR code scanning.

In this way, information about name, surname, country, and email address will be provided to companies on an individual, voluntary basis.

Please do not allow scanning of your badge by industry representatives without your direct consent.

For European Union of Medical Specialties (UEMS) accreditation purposes, participants are asked to scan their barcodes at the continuing medical education (CME) scanning stations. This system is necessary to certify the attendance of those interested to apply for UEMS accreditation. Please do not scan your badge if you are not interested in UEMS credits.

Certificate of attendance

The certificate of attendance will be sent by email after the congress.

Coffee breaks

Coffee service is available in the exhibition area during the break times indicated in the scientific program.

Continuing Medical Education Accreditation

Global Spine Congress 2026 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 21 European CME credits (ECMEC®s).

PC1 -Spinal Interventions/Injections Didactic Pre-course has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 3.5 European CME credits (ECMEC®s).

PC2- Pre-Course by AO Spine Knowledge Forum Spinal Cord Injury and Knowledge Forum Tumor - Intraoperative Ultrasound: From Basic Principles to Advanced Applications for Spine Trauma, Spinal Cord Injury and Spine Oncology has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 3.5 European CME credits (ECMEC®s).

PC4 - Pre-course: OLLIF: Oblique Lateral Lumbar Interbody Fusion – Trans-Kambin Access for MIS Lumbar Fusion has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 3.5 European CME credits (ECMEC®s).

PC5 - Pre-course: Fundamentals and Advances in Full Endoscopic Spine Surgery has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 3.5 European CME credits (ECMEC®s).

PC6 - Pre-course: Tubes vs Endoscopes: What is More Effective for Patients and Surgeons? has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 3.5 European CME credits (ECMEC®s).

PC7 - AO Spine Youth Club Pre-Course – Present and Future of Young Spine Surgeons has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 3.5 European CME credits (ECMEC®s).

EACCME® credits

Each medical specialist should claim only those hours of credit that he/she spent in the educational activity.

Each participant can only receive the number of credits he/she is entitled to according to his/her actual participation at the event once he/she has completed the feedback form.

The EACCME® awards ECMEC®s on the basis of 1 ECMEC® for one hour of CME with a maximum of 8 ECMEC®s per day.

Europe

The EACCME® has signed agreements with the majority of European countries. For a full and updated list of signed agreements in Europe please visit https://eaccme.uems.eu

The countries with which the EACCME® has signed agreements will recognize EACCME® credits.

All the other countries may recognize EACCME®credits on a voluntary basis. For these countries you will also need to apply to the central or relevant regional accreditation authority.

Conversion of EACCME® credits

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credits to AMA credits can be found at **https://edhub.ama-assn.org/pages/applications**.

Live educational activities occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC® credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Information regarding the conversion of EACCME® credits

Credit will be converted based on one (1) hour of participation equalling one credit for all activities. Physicians wishing to convert EACCME® credits to AMA PRA Category 1 Credit™ will be required to access the AMA website at https://edhub.ama-assn.org/pages/applications to obtain the necessary paperwork and instructions. Physicians and other health care professionals will be required to pay a processing fee to the AMA.

For other countries, please contact the relevant national/regional accreditation authority.

Simple procedure

Attendance to the accredited sessions will be monitored onsite through scanner devices. At the congress venue delegates will be asked to scan the QR code printed on their badge at all access controls.

On May 31st, GSC participants will receive an email with a link to access and complete the CME questionnaire. Please carefully check the deadline requested to complete the questionnaire and make sure you submit it on time, in order to get the CME credits

Disclaimer

AO Spine, the organizer of the Global Spine Congress, and OIC Srl, the organizing secretariat, will not be held liable for personal injuries or for loss or damage to property incurred by participants or guests at the congress. Participants and guests are encouraged to take out insurance to cover loss incurred in the event of cancellation, medical expenses, or damage to, or loss of personal belongings when traveling.

AO Spine and OIC Srl cannot be held liable for any disruption of the Global Spine Congress proceedings arising from natural, political, social, or economic events or other unforeseen circumstances beyond its control.Registration of a participant or guest confirms acceptance of this condition.

The materials presented at the meeting sessions are made available for educational purposes only. The materials are not intended to represent the only (or optimal) methods or procedures appropriate for the medical situations discussed, but rather are intended to present approaches, views, statements, or opinions of the presenters or faculty that may be helpful to others who face similar situations.

At this event, the AO will take photographs and will record audio and video material for marketing and advertising purposes that may be published.

If you would prefer not to be photographed or recorded, please inform the photographer or the recording person.

For objecting to recordings or publications or if you wish to obtain more information please contact:

dpo@aofoundation.org

For full information on how AO processes personal data and on participants' rights, please refer to:

https://www.aofoundation.org/AO-data-privacy-notice

Other picture taking, and video or audio recording of lectures and sessions, is strictly prohibited.

E-posters

GSC posters will be presented in electronic format as e-posters available at the computers located in the exhibition area.

Registration for the event is mandatory for all presenters.

Exhibition

A technical exhibition is being held during the event, providing the opportunity to show the latest innovative techniques and maximize interaction between participants and sponsor representatives.

AM and PM coffee breaks will be available in the exhibition according to the GSC program.

Exhibition hours

Thursday, May 28	**08:00–19:30**
Friday, May 29	**07:00–18:00**
Saturday, May 30	**07:00–13:45**

Industry Symposia

A number of industry instructional course lectures (ICLs) that include food will be held on Thursday and Friday (check program for exact time and location).

Language

The official language of the Global Spine Congress is English.

Learning objectives

Upon completion of this program, participants should be able to:

- Discuss the latest developments in basic research for spinal disorders
- Recognize and outline the latest developments in clinical treatments for spinal disorders
- Describe the appropriate patient selection and diagnostic methods for spine surgery
- Outline evidence that justifies clinical outcomes of patient treatments

Lost and found

Lost and found items can be recovered at the registration desk.

Mobile phone and camera use

The use of mobile phones and cameras is not permitted during the scientific sessions. Participants are kindly asked to keep their mobile phones turned off during the scientific sessions.

No smoking policy

Smoking is not permitted at any time. In accordance with the local regulations, this event follows a strict non-smoking policy.

Rapid-fire sessions

The new rapid-fire sessions, taking place in the two designated areas within the exhibition hall, allow presenters to give a succinct overview of their research findings within a two-minute time limit.

Registration Desk opening

Tuesday, May 26	**14:00-18:30**
Wednesday, May 27	**07:00-18:30**
Thursday, May 28	**07:00-19:30**
Friday, May 29	**06:30-18:00**
Saturday, May 30	**06:30-13:45**

Scientific paper sessions

There will be 50 scientific paper sessions scheduled over the course of the meeting, covering the main spine topics with original podium presentation. More than 300 peer reviewed abstracts by the Program Committee will be presented in five-minute presentations. Each session will have a 15 minute discussion. As the scientific program consists of parallel sessions, speakers are required to respect the time allotted for their presentations. This will contribute to the smooth running of the scheduled sessions. Registration for the Global Spine Congress is mandatory for oral presenters.

Slide Preview Center

The Slide Preview Center is located at floor -2 close to the escalator. Onsite directional signs will help to locate this office.

During the following times, staff and equipment will be available for speakers to deliver their PowerPoint presentations:

Wednesday, May 27	**07:00– 18:30**
Thursday, May 28	**07:00– 19:30**
Friday, May 29	**06:30–18:00**
Saturday, May 30	**06:30–13:45**

Important note: Only computer projection is available in the meeting rooms and it is not possible to directly use personal laptops at the podium. PowerPoint presentations on USB pens, memory sticks or personal laptops must be delivered to the slide preview desk as follows: All speakers must upload their presentation on-site in the Slide Preview Center a minimum of 2 hours before presenting. If your session is at 08:00 in the morning, you must upload your presentation the day before. Please note that presentations received after this deadline cannot be guaranteed audio-visual support.

Only Microsoft-PowerPoint presentations (*pptx—please make sure that you do not use PowerPoint Show *.ppsx) with video formats will be accepted. Staff members at the Slide Preview Center are also available to help those speakers wishing to rehearse their presentations.

Symposia

During the four day meeting, there will be 49 scientific symposia covering the latest research and topics in spine surgery. The symposia consist of didactic lectures presented by international speakers followed by a discussion session.

Target audience

The meeting focuses on all spine surgeons, orthopedic surgeons, neurosurgeons, researchers, and everyone aiming to further improve their knowledge in the latest developments, current concepts, and the future of spine care.

Wi-Fi

Wi-Fi is available for congress participants throughout the convention area.

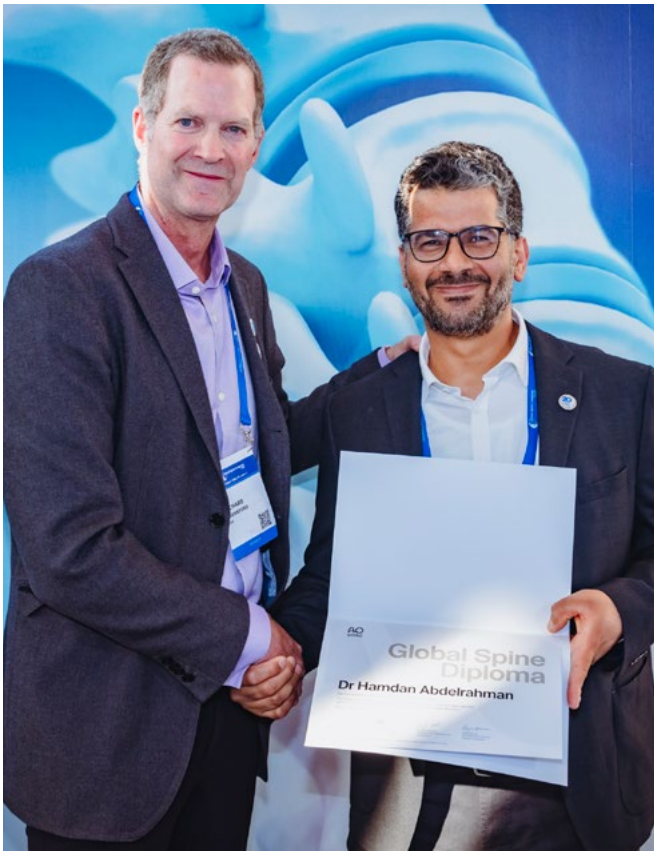
Wi-Fi name: gscistanbul2026

Password: gscistanbul2026

Awards Ceremonies

On **Thursday, May 28, 2026 during the Welcome Reception from 18:00 to 19:30**, the following awards will be presented:

- **Global Spine Journal Awards**
- **Global Spine Diploma Graduates**



On **Saturday, May 30 2026 from 12:30 to 12:45**, the following awards will be presented:

- **Global Spine Congress 2026 Best Paper Award**
  The best paper will be chosen on-site by the award committee.
- **Global Spine Congress 2026 Best E-poster Award**
  The best e-poster will be chosen on-site by the award committee.
- **Global Spine Congress 2026 Best Rapid-Fire Award**
  The best rapid-fire presentation will be chosen on-site by the award committee.



Global Spine Congress 2026

AO SPINE



Join the GSC Treasure Hunt!

Explore, connect, and compete for some exciting prizes!

It's back! Following its extremely popular first appearance at GSC 2025, Treasure Hunt takes you on an exciting, interactive journey designed to help you explore the congress, connect with fellow attendees, and compete for a one-of-a-kind reward!

How it works

Download the GSC app and click on the treasure hunt icon. Keep an eye out for QR codes around the congress venue or head to the Treasure Hunt Station to get started. Scan, answer spine-themed questions, earn points, and climb the leaderboard.

Top prize

The top three scorers will win an exclusive one-on-one breakfast with a leading Key Opinion Leader in spine—a unique opportunity to connect, learn, and be inspired. Additional prizes include a free one-year AO Spine membership and discounts on GSC registration fees.

Let the hunt begin!

Wednesday, May 27, 2026

PROGRAM KEY

- Paper sessions
- Symposia
- Pre-courses
- Breaks and Industry Lunch Symposia
- Networking
- Rapid fire sessions
- Workshops
- AO Spine Members-only sessions. These sessions are for members only. Join AO Spine today at: www.aospine.org/membership

		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6
07:30–08:00	Participant Registration						
08:00–10:00		Pre-course: Spinal Interventions/ Injections	Pre-Course by AO Spine Knowledge Forum Spinal Cory Injury and Knowledge Forum Tumor: Intraoperative Ultrasound: From Basic Principles to Advanced Applications for Spine Trauma, Spinal Cord Injury, and Spine Oncology	Pre-course: Updates in Endoscopic Spine Surgery—Second Edition	Pre-course: Oblique Lateral Lumbar Interbody Fusion (OLLIF): Trans-Kambin Access for MIS Lumbar Fusion	See Room 6 »	Workshop: Basic Endoscopic Spine Surgery Workshop: Core Concepts and Technical Fundamentals of Uniportal and Biportal Endoscopic Spine Surgery 10:05–12:00 Hands-on workshop in Room 5
10:00–12:00							
12:00–13:00		Break					
13:00–17:00		Pre-course: Fundamentals and Advances in Full Endoscopic Spine Surgery		Pre-course: Tubes vs Endoscopes: What is More Effective for Patients and Surgeons?	AO Spine Youth Club Pre-Course: Present and Future of Young Spine Surgeons	See Room 6 »	Workshop: Advanced Endoscopic Spine Surgery Workshop: Expanding the Horizon of Endoscopic Spine Surgery – From Lumbar to Cervical Spine 14:40–17:00 Hands-on workshop in Room 5
17:00–17:45		Members-only session: Panel Case Discussion with the Experts		Members-only session: Building the Future of Spine Research: Networks, Tools, and Mentorship for Global Academic Excellence			Members-only session: Bridging Generations: Honest Conversations on Leadership, Mentorship, and Teaching in Spine Surgery
17:45–18:30			Members-only session: Leadership Beyond Tradition: What Are We So Afraid Of?	Members-only session: Educational Strategies in Endoscopic Spine Surgery: Global Perspectives			Members-only session: The Modern Spine Career: Early-Trainee Perspectives and Mentorship Pathways
18:30–20:00							
20:00–23:00		Global Spine Congress Networking Event Get Social and Connect					

Thursday, May 28, 2026

	Room 1	Room 2	Room 3	Room 4	Room 5	Rapid Fire Stage A	Rapid Fire Stage B	Theater
08:00–09:30	Congress Opening							
	S01: Opening Symposium							
09:30–10:00	Break					Case Debate: 2Level Cervical Spondylosis with Radiculopathy		
10:00–11:00	OP1: MIS Periop Optimization	OP2: Function and Recovery in ASD	OP3: Epidemiology in Spine	OP4: EOS and Beyond	OP5: Non-Operative Treatment Options	RF1: Imaging and Novel Technologies	RF2: Trauma—Thoracolumbar	Knowledge Forums: Origins and Innovations
11:00–12:00	OP6: Biologics and Bone Regeneration and Beyond	OP7: Preventing Junctional Problems	OP8: Tumor Mapping and Staging	OP9: Complex Cervical Cases	OP10: Construct Failures and Others	RF3: Minimally Invasive Spine Surgery	RF4: Trauma—Cervical and Trauma Other	A Global Approach for Improving Diversity for Spine Surgeons
12:00–13:30	Industry Lunch Symposia							
13:30–14:30	S02: Symposium hosted by EUROSPINE: Short Constructs, Long Consequences: Planning, Alignment, and Prevention of Mechanical Failure in Degenerative Spine	S03: Symposium hosted by Iraqi Orthopedic and Spine Association (IOA): The Dark Side in Spine surgery (My Worst Case Ever)	S04: Combined Symposium hosted by Turkish Spine Society/Turkish Neurosurgical Society-Spine Section/Turkish Society of Orthopaedics and Traumatology-Spine Section: Lumbar Degenerative Disease	S05: Symposium hosted by Egyptian Spine Association Symposium (ESA): Complications in Scoliosis Surgery: Anticipation, Prevention, and Rescue	S06: Symposium hosted by North American Spine Society Symposium (NASS): Revision Strategies for Failed Interbody Fusions			Symposium hosted by the Saudi Spine Society (SSS): Spine Trauma Update
14:30–15:30	OP11: Thoracolumbar Burst Care	OP12: Harnessing the Immune System	OP13: Imaging that Predicts	OP14: Personalizing Degenerative Care	OP15: TB of the Spine	RF5: Diagnostics and Epidemiology	RF6: Infections and Cervical Degen	
15:30–16:00	Break						Case Debate by AO KF Degen: Lumbar Disc Herniation with Radiculopathy	
16:00–17:00	OP16: Cervical Trauma	OP17: Adult Deformity Decisions	OP18: Advanced MISS	OP19: State of the Art of Arthroplasty	OP20: Preventing Infection in Spine	RF7: Precision Spine Surgery	RF8: Degenerative Lumbar	GSJ – Live from Istanbul: Return to Play After Spine Surgery in High Performance Athletes
17:00–18:00	S07: Symposium: Errors and Complications with Spinal Robotics and Navigation	S08: Symposium: High-Level Evidence-Based Medicine for Endoscopic Spine Surgery	S09: Symposium: What Every Spine Physician Should Know About Cervical Trauma	S10: Symposium: Cervical DDD: The Role for ACDF or TDR in 2026	S11: Symposium: Introduction to Interventional Procedures in a Surgical Practice			Surgical Management of Difficult Thoracic Disc Herniation and Other Problems
18:00–19:30	Welcome Gathering and Award Ceremony (Exhibition)							

Friday, May 29, 2026

	Room 1	Room 2	Room 3	Room 4	Room 5	Rapid Fire Stage A	Rapid Fire Stage B	Theater
07:00–08:00			Women in Spine Breakfast Symposium					
08:00–09:00	S12: Symposium: What's novel and exciting about Osteobiologics by KF degenerative	S13: Symposium hosted by AO Spine Korea: Endoscopic Spine Surgery: Mastering Complex Cases and Complications	S14: Symposium: The Latest in Prediction Models for Metastatic Spinal Disease	S15: Symposium hosted by AO Spine Knowledge Forum Deformity: Next-Generation Approaches in Adult Spinal Deformity	S16: Symposium: Preventing Complications in Cervical Spine Surgery: Evidence-Based Strategies and Modern Techniques			Global Spine Diploma at GSC: One Fracture, Many Worlds: Global Strategies in A3 / A4 TL Spine
09:00–10:00	OP21: Effect of Osteoporosis on Spine Care Management	OP22: Complex Cervical Myelopathy	OP23: Thoracic/ Cervical MIS	OP24: Adolescent Scoliosis Care	OP25: Tumor Reconstruction	RF9: Novel Technologies	RF10: Deformity—Thoracolumbar (Adolescent)	
10:00–10:30			Break			Case Debate: Thoracolumbar Burst Fracture (AO A4) Without Neuro Deficits or PLC Injury		
10:30–11:30	OP26: Patient-Specific Innovation	OP27: Outcomes for Cervical Myelopathy	OP28: Management of Osteoporotic Fractures	OP29: Complex Deformity Tactics	OP30: Thoracic Disc Surgery in Focus	RF11: MISS and Novel Technologies	RF12: Cervical Degenerative and Deformity	
11:30–12:30	OP31: Recovery Influencers in Lumbar Surgery	OP32: Endoscopic MIS	OP33: Patient Factors That Affect Complications	OP34: Biomechanics in Your Practice	OP35: Diagnostics and Predictive Analytics in Spine	RF13: Surgical Complications	RF14: Deformity—Thoracolumbar (Adult)	Navigating the First Five Years of Spine Practice: Overcoming Early-Career Challenges
12:30–14:00				Industry Lunch Symposia				
14:00–15:00	S17: Symposium: From the Court and the Field to the Clinic: Spine Injuries in Athletes	S18: Symposium: Complex Craniovertebral Junction Surgery	S19: Symposium hosted by the AO Spine Knowledge Forum Trauma and Infection: Osteoporotic Thoracolumbar Fractures—When to Operate?	S20: Symposium: The Decompensated Sagittal Profile: How far Can we Tolerate?	S21: Symposium: From Chaos to Clarity: Algorithmic Solutions for Spine Surgery Complications			Lumbar DDD: The Role for Arthrodesis or TDR in 2026
15:00–16:00			Break				Case Debate: Lumbar Spondylolisthesis with Back Pain and Claudication	
16:00–17:00	OP36: More Complex Tumors	OP37: Navigation and Robotics in Spine	OP38: Lumbar Stenosis and Spondylolisthesis	OP39: Spinal Pelvic Considerations	OP40: Endoscopy vs. Open	RF15: Degenerative Lumbar	RF16: Evidence-Driven Spine Care	Sacro-Iliac Joint Fusion: Not Only for Dysfunction: Experiences in Trauma and Long Construct
17:00–18:00	S22: Symposium hosted by Pan Arab Spine Society (PASS): Spinal Infections: Challenges and Evolving Strategies	S23: Symposium hosted by the Cervical Spine Research Society (CSRS): Optimizing Outcomes in Multi-Level Cervical Degenerative Disease: When to Fuse, Replace, or Hybridize	S24: Symposium hosted by MENA Spine Congress Symposium (MSC): Mastering Revision Strategies: A MENA Perspective on Challenging Spine Surgeries	S25: Symposium hosted by European Association of Neurosurgical Societies Symposium (EANS): Surgical Challenges at the Four Junctions	S26: Symposium hosted by Singapore Spine Society: Fix-and-Treat or Treat-and-Fix: Navigating the Surgical–Biological Map for Osteoporotic Spines			Symposium by AO Spine KF Degenerative: How to Mitigate the Risks and Challenges Associated with Thoracic Disc Herniation and Thoracic Stenosis

Saturday, May 30, 2026

	Room 1	Room 2	Room 3	Room 4	Room 5	Rapid Fire Stage A	Rapid Fire Stage B	Theater
07:00–08:00			Science Slam! AO Spine Youth Club Breakfast Session					
08:00–09:00	S27: Symposium hosted by Lumbar Spine Research Society (LSRS): Lower Back Pain: Diagnosis and Treatment	S28: Symposium: Endoscopic Approach for Cervical Degenerative Disease	S29: Symposium hosted by the AO Spine Knowledge Forum Tumor: Cutting-Edge Technology in Spinal Oncology	S30: AOSKFD/ ISSLS Joint Symposium: Intervertebral Disc Regeneration: Bridging the Gap to Clinical Reality	S31: Symposium: Augmented and Virtual Reality Applications in Spine Surgery			
09:00–10:00	OP41: AI, AR, and Robotics in Spine	OP42: Degenerative Lumbar Techniques	OP43: AIS Navigator	OP44: Regenerating the Disc	OP45: Lateral/Oblique Fusion	RF17: Spine Biologics and MISS	RF18: Tumor and Optimizing Spine Care	AO Spine Youth Club Awards
10:00–10:30				Break				A Case-Based Exploration of Adult Spinal Deformity
10:30–11:30	OP46: Prevention of Spine surgery Complications	OP47: Decision Making for Lumbar Degenerative Surgery	OP48: Outcomes of Spine Trauma Management	OP49: Cervical Degenerative	OP50: Tumor Prognostics	RF19: Tumors	RF20: Degenerative Cervical	Interventional Treatment of Axial Low Back Pain
11:30–12:30	S32: Symposium hosted by AO Spine Knowledge Forum Spinal Cord Injury: Acute Spinal Cord Injury in LMICs: From Guidelines to Real-World Implementation	S33: Symposium: Cutting-Edge Technology in Spine Surgery	S34: Symposium: Surgical Treatment of Severe Deformities	S35: Symposium Presented on Behalf of AO Spine KF Degen Enabling and Emerging Tech Group: The Digital Spine Surgeon: Navigating the Future of AI in Spine Surgery	S36: Symposium: Thoracolumbar Trauma: Critical Insights for Clinical Practice			Debate on Surgical Approaches for Cervical Radiculopathy
12:30–12:45	Closing Ceremony							
12:45–13:45	S37: Closing Symposium: Novel Technologies to Improve Spine Surgery							

Global Spine Congress 2026

Wednesday

May 27, 2026



Location: Room 1

08:00–12:00		Spinal Interventions/Injections Didactic Pre-course	**Moderators:** Gene Tekmyster, Karsten Wiechert
08:00–08:15	PC01	Welcome and Introduction	Gene Tekmyster Karsten Wiechert
08:15–08:45	PC02	Indications; Fluoroscopy Principles; Safety Considerations	Hakan Gunduz
08:45–09:00	PC03	Cervicogenic Headache: A cervical spine source of symptoms, differential diagnoses, and consideration of non-spine procedures	Madisen Olson
09:00–09:30	PC04	Epidural Injections and Diagnostic Spinal Nerve Blocks. Review of German Spine Society National Clinical Guidelines on epidural injections	Karsten Wiechert
09:30–10:00	PC05	Facet Joint Injections and Medial Branch Blocks. Radiofrequency Ablation for Axial low back pain	Karsten Wiechert
10:00–10:15		Break	
10:15–10:30	PC06	The diagnosis and treatment of Sacroiliac Joint pain	Hakan Gunduz
10:30–11:00	PC07	Introduction to Basivertebral nerve ablation and ReActiv8 Implantable Restorative Neurostimulation System for the treatment of axial low back pain	Gene Tekmyster
11:00–11:30	PC08	Use of neuromodulation for the treatment of Post-laminectomy syndrome and non-operative spine pain	Gene Tekmyster
11:30–12:00		Panel Discussion and Q&A	

Location: Room 2

08:00–12:00		Pre-Course by AO Spine Knowledge Forum Spinal Cord Injury and Knowledge Forum Tumor— Intraoperative Ultrasound: From Basic Principles to Advanced Applications for Spine Trauma, Spinal Cord Injury and Spine Oncology	**Moderators:** Michael Fehlings, Marcin Czyz, Christoph Hofstetter, Mario Ganau
08:00–08:10	PC09	Introduction to course	Marcin Czyz Michael Fehlings
08:10–08:10		Session 1: Basic principles and applications for spine trauma, spinal cord injury and degenerative cervical myelopathy:	
08:10–08:25	PC10	Ultrasound for Spine Surgery—Introduction to the technology and how it works.	Michael Fehlings
08:25–08:40	PC11	Clinical applications of ultrasound in spine surgery including degenerative cervical myelopathy	Mario Ganau
08:40–08:50		Discussion	
08:50–09:05	PC12	Ultrasound for assessing surgical decompression in acute SCI	Brian Kwon
09:05–09:20	PC13	Advanced ultrasound imaging and biomarkers of acute spinal cord injury	Christoph Hofstetter
09:20–09:30		Discussion	
09:30–10:15		Practical session 1: Basics of Spinal Ultrasound Technology	
10:15–10:30		Break	
10:30–10:30		Oral lecture Session 2: Application of US in spine oncology:	
10:30–10:45	PC14	Technical application of ius in tumour resection	Jeremie Larouche
10:45–11:00	PC15	Talk: Separation surgery in spinal oncology	Marcin Czyz
11:00–11:10		Discussion	
11:10–11:55		Practical session 2: Advanced Applications to Oncology	
11:55–12:00	PC16	Concluding remarks	Marcin Czyz Michael Fehlings

Location: Room 3

08:00–12:00	Pre-course: Updates in Endoscopic Spine Surgery—Second Edition		Moderator: Marcos Vaz de Lima
08:00–08:10	PC17	Opening and Welcome	Marcos Vaz De Lima
08:10–08:25	PC18	Biportal Endoscopic Spine Surgery: Technical Tips, Pitfalls and Decision-Making	Rodrigo Borges Di Ferreira
08:25–08:40	PC19	Thoracic Decompression in Endoscopic Spine Surgery: Main Surgical Approaches and Clinical Benefits	Juliano Rodrigues Dos Santos
08:40–08:55	PC20	Neurophysiological Monitoring in Endoscopic Spine Surgery: What Safety Does It Really Add?	Ricardo Ferreira
08:55–09:10	PC21	Advances in Artificial Intelligence and Augmented Reality in Endoscopic Spine Surgery	Marcos Vaz De Lima
09:10–09:25		Discussion and Q&A—Session 1	
09:25–09:35		Break	
09:35–09:50	PC22	Biportal Endoscopic Spine Surgery: Expanding Indications and Current Limits	Bernardo Aramuni
09:50–10:10	PC23	Biportal vs. Uniportal Endoscopic Spine Surgery: Which Side of the Debate Are We On?	Jin-Sung (Luke) Kim
10:10–10:25	PC24	Endoscopic Lumbar Decompression with Interbody Fusion: Where Do We Stand Today?	Marcio Penna De Carvalho
10:25–10:40	PC25	Cervical Endoscopic Spine Surgery: Indications and Technique	Martin Komp
10:40–10:55	PC26	Complications in Endoscopic Spine Surgery: Mechanisms, Prevention and Management	Antonio Krieger
10:55–11:10	PC27	Full Endoscopic Resection of Lumbar Intradural Tumors	Facundo Van Isseldyk
11:10–11:15		Break	
11:15–11:30	PC28	Future Developments and Perspectives in Endoscopic Spine Surgery	Jin-Sung (Luke) Kim
11:30–12:00		Final Discussion, Panel and Take-Home Messages	

Location: Room 4

08:00–12:00	Pre-course: Oblique Lateral Lumbar Interbody Fusion (OLLIF): Trans-Kambin Access for MIS Lumbar Fusion		Moderators: Amir Sharif Hamid Abbasi
08:00–08:10	PC29	Welcome and Course Overview	Amir Sharif
08:10–08:40	PC30	Anatomy of Trans-KambinTriangle and Comparison to Other Approaches	Amir Sharif
08:40–09:10	PC31	Indications, Contraindications and Patient Selection	Varun Kumar Agarwal Hamid Abbasi
09:10–09:40	PC32	Step-by-Step OLLIF SurgicalTechnique (Video-Based)	Hamid Abbasi
09:40–10:05	PC33	Instrumentation Concepts for OLLIF (Didactic Only)	Amir Sharif
10:05–10:20		Break	
10:20–10:50	PC34	Complication Avoidance and Management in OLLIF	Varun Kumar Agarwal Kannan Karthik Kailash
10:50–11:35	PC35	Case-Based Session: Real Clinical Practice	All Speakers
11:35–12:00	PC36	Advanced Considerations: Multilevel, Obesity, Complex Anatomy	Hamid Abbasi
12:00–12:00	PC37	Closing Remarks and Final Q&A	Amir Sharif

Location: Room 6

08:00–12:00		**Basic Endoscopic Spine Surgery Workshop: Core Concepts and Technical Fundamentals of Uniport and Biportal Endoscopic Spine Surgery**	**Moderators:** Samuel Cho, Vit Kotheeranurak
08:00–08:05	WK01	Welcome and Introduction	
08:05–08:15	WK02	How to start Uniportal surgery: patient selection, Equipment and surgical setup in Uniportal endoscopic spine surgery	Hüseyin Öztürk
08:15–08:25	WK03	How to start Biportal surgery: patient selection, Equipment and surgical setup in Biportal endoscopic spine surgery	Nelson Astur
08:25–08:35	WK04	Anatomical Considerations for Interlaminar Access	Takeshi Kaneko
08:35–08:45	WK05	Anatomical Considerations for Transforaminal and Intertransverse Access	Withawin Kesornsak
08:45–08:55	WK06	Fluid and Bleeding management during Biportal Endoscopic Approach	Javier Quillo-Olvera
08:55–09:05		Discussion / Questions	
09:05–09:15	WK07	10-Step Transforaminal Endoscopic surgery in the lumbar spine	Frank Hassel
09:15–09:25	WK08	10-Step Interlaminar Endoscopic spine surgery in the lumbar spine	Withawin Kesornsak
09:25–09:35	WK09	Uniportal Endoscopic Approach for Foraminal and Extraforaminal herniation	Hakan Sabuncuoğlu
09:35–09:45	WK10	The K-point Approach in UBE Lumbar Discectomy: A Bone- and Ligamentum Flavum-Preserving Technique	Young San Ko
09:45–09:55	WK11	Complication Avoidance and Management of Uniportal Endoscopic Surgery	Vit Kotheeranurak
09:55–10:05		Questions and discussions	
		Transition to Hands-on Workshop in room 5	
10:05–12:00		**Hands-on workshop:**	
		Station 5—RIWO Spine—Foraminal approach	Vit Kotheeranurak
		Station 1—RIWO Spine—Interlaminar approach	Hakan Sabuncuoğlu
		Station 6—RIWO Spine—Foraminal approach	Hüseyin Öztürk
		Station 10—RIWO Spine—Interlaminar approach	Withawin Kesornsak
		Station 4—CG Bio—Robot-assisted endoscopic decompression (Interlaminar or Transforaminal)	Young San Ko
		Station 13—Elliquence—Mult-e portal	Takeshi Kaneko
		Station 9—Joimax—Transforaminal, interlaminar	Frank Hassel
		Station 2—Arthrex—Lumbar interlaminar discectomy	Saqib Hasan
		Station 7—Arthrex—Lumbar interlaminar discectomy	Osama Kashlan
		Station 11—Arthrex—Lumbar transforaminal discectomy	Mark Mahan
		Station 3—Xishan—Percutaneous lumbar discectomy	Jader de Andrade Neto, Javier Quillo-Olivera
		Station 8—Xishan—UBE	Nelson Astur Neto
		Station 12—Xishan—UASS	Li Jizheng

12:00–13:00	**Break**	

Location: Room 1

13:00–17:00	**Pre-course: Fundamentals and Advances in Full Endoscopic Spine Surgery**		**Moderators:** Altay Sencer, Hikmet Uluğ, Hakan Sabuncuoğlu
13:00–13:05	PC38	Welcome	Hakan Sabuncuoğlu
13:05–13:20	PC39	From concept to practice: The philosophical paradigm of full endoscopic spine surgery	Hikmet Uluğ
13:20–13:35	PC40	Applied anatomy for transforaminal lumbar full endoscopic spine surgery	Hakan Sabuncuoğlu
13:35–13:50	PC41	Basic full endoscopic approaches: Lumbar transforaminal route	Hikmet Uluğ
13:50–14:05	PC42	Applied anatomy for interlaminar lumbar full endoscopic spine surgery	Hüseyin Öztürk
14:05–14:20	PC43	Basic full endoscopic approaches: Lumbar interlaminar route	Ilyas Dolas
14:20–14:35	PC44	Principles of instrumentation and energy use in full endoscopic spine surgery	Yunus Uysal
14:35–14:50	PC45	Hemostasis and epidural pressure control in full endoscopic spine surgery	Altay Sencer
14:50–15:05		Break	
15:05–15:20	PC46	Full endoscopic cervical discectomy and decompression	Murat Sayin
15:20–15:35	PC47	Full endoscopic lumbar discectomy with tips and tricks	Hakan Sabuncuoğlu
15:35–15:50	PC48	Full endoscopic surgery for lumbar stenosis: Over the top technique	Hüseyin Öztürk
15:50–16:05	PC49	Lumbar extreme far lateral full endoscopic discectomy	Oğuz Karaeminoğullari
16:05–16:20	PC50	Complication management in full endoscopic lumbar spine surgery	Hakan Sabuncuoğlu
16:20–16:35	PC51	Learning curve and training pathways	Murat Sayin
		Challenging and controversial cases in full endoscopic spine surgery:	
16:35–17:00	PC52	Lumbar cranially migrated sequestration obstructed by the foraminal ligaments	Hikmet Uluğ
16:35–17:00	PC53	Exiting nerve-adherent lumbar extraforaminal sequestration-Technical nuances	Hikmet Uluğ
16:35–17:00	PC54	Lumbar full endoscopic discectomy in extreme far lateral highly up migrated and sequestrated disc herniation	Hakan Sabuncuoğlu
16:35–17:00	PC55	Left L5–S1 extraforaminal stenosis: Full endoscopic foraminoplasty and decompression	Hakan Sabuncuoğlu
16:35–17:00	PC56	Full endoscopic resection of lumbar intradural tumor	Murat Sayin
16:35–17:00	PC57	Full endoscopic lumbar facet cyst resection causing severe radiculopathy	Murat Sayin
16:35–17:00	PC58	Full endoscopic interlaminar L4-5 semi-calsified disc herniation removal and decompression	Hüseyin Öztürk
16:35–17:00	PC59	Full endoscopic treatment of bidirectional-up and down migrated lumbar disc herniation	Hüseyin Öztürk
16:35–17:00	PC60	Chiari Tip 1: Posterior decompression with full endoscopic cercical spina surgery	Altay Sencer
16:35–17:00	PC61	Lumbar facet cyst recection with interlaminar full endoscopic discectomy	Altay Sencer
16:35–17:00	PC62	Thoracic full endoscopic discectomy	Ilyas Dolas
16:35–17:00	PC63	Surgical decision in multi-level multiple recurrent disc herniation treated with different methods (microsurgery, UBE)	Oğuz Karaeminoğullari
16:35–17:00	PC64	A serious complication of hemorrhage in chronic renal failure patient during full endoscopic lumbar transforaminal discectomy	Oğuz Karaeminoğullari
17:00–17:00		Discussion and Closing Remarks	

Location: Room 2

13:00–17:00		**Pre-course: Tubes vs Endoscopes: What is More Effective for Patients and Surgeons?**	**Moderators:** Roger Härtl, Christoph Hofstetter
13:00–13:15	PC65	Tubular Microsurgery: The Evolution of Efficiency	Roger Härtl
13:15–13:20		Q&A	
13:20–13:35	PC66	Flooding the Field: The History of Endoscopy	Richard Assaker
13:35–13:40		Q&A	
13:40–13:55	PC67	Tube Size, Operative Field, Number of Access Corridors: The Equation that Shapes MIS Spine	Christoph Hofstetter
13:55–14:00		Q&A	
14:00–14:15	PC68	Infrastructure and Cost Considerations of Micro vs Endoscopic Spine Surgery	Muhammed Assous
14:15–14:20		Q&A	
14:20–14:30	PC69	Debate: Pros and Cons of Tubes and Endoscopes—Lumbar Pathologies: Tubular vs. Endoscopic: Tubes are better!	Roger Härtl
14:30–14:40	PC70	Debate: Pros and Cons of Tubes and Endoscopes—Lumbar Pathologies: Tubular vs. Endoscopic: Endoscopes are better!	Christoph Hofstetter
14:40–14:50		Polls and audience questions	
14:50–15:00	PC71	Debate: Pros and Cons of Tubes and Endoscopes—Cervical Pathologies: Tubular vs. Endoscopic: Tubes are better!	Avelino Parajon
15:00–15:10	PC72	Debate: Pros and Cons of Tubes and Endoscopes—Cervical Pathologies: Tubular vs. Endoscopic: Endoscopes are better!	Muhammed Assous
15:10–15:20		Polls and audience questions	
15:20–15:30		Break	
15:30–15:40	PC73	Debate: Pros and Cons of Tubes and Endoscopes—Thoracic Pathologies: Tubular vs. Endoscopic: Tubes are better!	Nestor Taboada
15:40–15:50	PC74	Debate: Pros and Cons of Tubes and Endoscopes—Thoracic Pathologies: Tubular vs. Endoscopic: Endoscopes are better!	Cristian Ricardo Correa Valencia
15:50–16:00		Polls and audience questions	
16:00–16:15	PC75	Management of Complications with Tubes and Endoscopes	Arvind G Kulkarni
16:15–16:20		Q&A	
16:20–16:35	PC76	Embedding Minimally invasive techniques in Academic Spine Surgery	Ibrahim Hussain
16:35–16:40		Q&A	
16:40–16:55	PC77	Future Directions and Enabling Technologies	Richard Assaker
16:55–17:00		Q&A	

Location: Room 4

13:00–17:00		**AO Spine Youth Club Pre-Course—Present and Future of Young Spine Surgeons**	**Moderators:** Jana Felicitas Schader Victor Martin-Gorgojo
13:00–13:10	PC78	Welcome and AO SYC: Who we are and where we're headed	Jana Felicitas Schader Victor Martin-Gorgojo Honor guest: Mark Markel
13:10–13:40	PC79	**Building the pipeline: engaging medical students early: Panel Discussion and Audience Q&A** ● The importance of engaging medical students early ● Strategies to mentor, inspire, and include students in spine surgery ● AO SYC initiatives and examples of student involvement	**Panelists:** Andrea Pezzi Stone Sima Mick Bernet **Special guest:** Riccardo Cecchinato
13:40–14:10	PC80	**Life after residency: what comes next?: Panel Discussion and Audience Q&A** ● Career options: public, private, academic ● Transitioning from fellowship to independent practice ● Navigating uncertainty and early career challenges	**Panelists:** Angelica Arce Josefin Åkerstedt Raj Sakhrekar **Special guest:** Marcin Czyz
14:10–14:40	PC81	**Collaborating with industry—a modern perspective: Moderated panel discussion** ● Understanding ethical and transparent collaboration with industry ● What early-career surgeons should know about industry partnerships ● Avoiding conflicts of interest and maintaining patient-centered focus ● Practical tips for engaging with value and professionalism	**Panelists:** Gisberto Evangelisti Doria Crismaruc Víctor Zambrano Daniel Lisker
14:40–15:10	PC82	**Spine Espresso Sessions—Real talks with AO Faculty**	
15:10–15:55	PC83	**Roundtable 1—Challenges faced by young spine surgeons: Small group discussions** ● The pressure to publish: defining meaningful academic work ● Fellowships: essential milestone or professional expectation? ● Building confidence and autonomy in early clinical practice	**Moderators:** Irina Turtureanu Yan Silva **Special guest:** Domenico Compagnone
15:55–16:05		Break	
16:05–16:50	PC84	**Roundtable 2—Surgeon, leader, … human!: Small group discussions** ● Leadership in surgery: can it be learned or is it innate? ● Balancing parenthood and a demanding surgical career ● Mental health and burnout: building sustainable practices	**Moderators:** Guillem Paz Ramirez Maria Andrea Montiel **Special guest:** Pedro Berjano
16:50–17:00	PC85	Final reflections and closing remarks	Jana Felicitas Schader Victor Martin-Gorgojo

Location: Room 6

13:00–17:00		**Advanced Endoscopic Spine Surgery Workshop: Expanding the Horizon of Endoscopic Spine Surgery—From Lumbar to Cervical Spine**	**Moderators:** Jin-Sung (Luke) Kim, Enrico Giordan
13:00–13:05	WK12	Welcome and Introduction	Jin-Sung (Luke) Kim Enrico Giordan
13:05–13:15	WK13	Uniportal Endoscopic Lumbar Interbody Fusion: Principles and Pitfalls	Christoph Hofstetter
13:15–13:25	WK14	Biportal Endoscopic Lumbar Interbody Fusion: Indications and Techniques	Young San Ko
13:25–13:35	WK15	Cervical Endoscopic Foraminotomy/Discectomy: Uniportal Endoscopy	Enrico Giordan
13:35–13:45	WK16	Cervical Endoscopic Foraminotomy/Discectomy: Biportal Endoscopy	Yong Jin Park
13:45–14:00		Q&A	
14:00–14:10	WK17	Transforaminal Thoracic Endoscopic Approach: Uniportal Endoscopy	Martin Komp
14:10–14:20	WK18	Complications and Their Management: Lessons Learned	Rafael Lindi Sugino
14:20–14:30	WK19	Navigation and Technology in Endoscopy	Jin-Sung (Luke) Kim
14:30–14:40		Panel Discussion / Final Q&A	
14:40–15:00		**Transition to Hands-on Workshop in room 5**	
15:00–17:00		Hands-on workshop	
		Station 5—RIWO Spine—Cervical	Martin Komp
		Station 1—RIWO Spine—Over the top decompression	Withawin Kesornsak
		Station 6—RIWO Spine—Lumbar recess stenosis	Marcos Vaz De Lima
		Station 10—RIWO Spine—Extraforaminal	Rafael Lindi Sugino
		Station 4—GC Bio—Robot-guided Biportal Endoscopic Lumbar Interbody Fusion	Young San Ko
		Station 13—Elliquence—Mult-e portal	Takeshi Kaneko
		Station 9—Joimax—Cervical and fusion	Christoph Hofstetter
		Station 2—Arthrex—Lumbar Decompression	Saqib Hasan
		Station 7—Arthrex—Lumbar Decompression or Cervical Decompression	Osama Kashlan
		Station 11- Arthrex—Cervical Decompression	Mark Mahan
		Station 3—Xishan—Percutaneous Lumbar Discectomy	Jader de Andrade Neto Javier Quillo-Olivera
		Station 8—Xishan—UBE	Nelson Astur Neto
		Station 12—Xishan—AUSS	Li Jizheng

Location: Room 1

17:00–18:30		**AO Spine Members-only Session: Panel Case Discussion with the Experts**	**Moderators:** Gaston Camino-Willhuber, Michael Grevitt, Ahmet Alanay, Roger Härtl, S. Rajasekaran
17:00–17:10	MO01	Toracolumbar Trauma Case	Valentino Latallade
17:10–17:15		Discussion	
17:15–17:25	MO02	Adult Degenerative Scoliosis Case	Martin Estefan
17:25–17:30		Discussion	
17:30–17:40	MO03	Adolescent Idiopathic Scoliosis Case	Feyzi Kilic
17:40–17:45		Discussion	
17:45–17:55	MO04	Congenital Scoliosis Case	Martin Estefan
17:55–18:00		Discussion	
18:00–18:10	MO05	Lumbar Degenerative Case	Gaston Camino-Willhuber
18:10–18:15		Discussion	
18:15–18:25	MO06	Spinal Infection Case	Esteban Quiceno Restrepo
18:25–18:30		Discussion	

Location: Room 3

17:00–17:45		**AO Spine Members-only Session: Building the future of spine research: networks, tools, and mentorship for global academic excellence**	**Moderators:** Marcin Czyz, Klaus Schnake
17:00–17:15	MO07	Knowledge translation in spine surgery: from research to practice	Jorrit-Jan Verlaan
17:15–17:30	MO08	AO Spine Study Groups: a global network for collaborative research	Aron Lazary
17:30–17:45	MO09	Building an AO Spine Research Hub: connecting young researchers with the mentors	Victor Martin-Gorgojo, Marcin Czyz

Location: Room 6

17:00–17:45		**AO Spine Members-only Session: Bridging Generations: Honest Conversations on Leadership, Mentorship, and Teaching in Spine Surgery**	**Moderator:** Deya AlWady **Panelists:** Richard Bransford, Mark Markel
17:00–17:02	MO10	Introduction	Deya Alwady
17:02–17:09	MO11	How Can Spine Trainees Achieve Autonomy in Spine Surgery?	Jeffrey C. Wang
17:09–17:16	MO12	The Hidden Curriculum: What No One Teaches	Sameh Abolfotouh
17:16–17:23	MO13	What Does Spine Training Lack Today?	Marcin Czyz
17:23–17:30	MO14	Trainee Struggles and Gaps: A Frontline Perspective	Sompoom Sunpaweravong
17:30–17:36		Live Polls	
17:36–17:44		Panel and Audience Discussion	
17:44–17:45		Final Takeaways	

Location: Room 2

17:45–18:30		AO Spine Members-only Session: Leadership Beyond Tradition: What are We so Afraid of?	Moderator: Waeel Hamouda
17:45–17:53	MO15	Welcome and Interactive Provocative Questions	Waeel Hamouda
17:53–17:59	MO16	Why senior surgeons must embrace new leadership models	Riccardo Cecchinato
17:59–18:05	MO18	The role of seniors surgeons as allies of generational change	Waeel Hamouda
18:05–18:11	MO19	How to lead when you are a young surgeon	Stipe Corluka
18:11–18:17	MO20	What young surgeons really want from their mentors	Deya Alwady
18:17–18:30		Discussion	

Location: Room 3

17:45–18:30		AO Spine Members-only Session: Educational Strategies in Endoscopic Spine Surgery: Global Perspectives	Moderators: Facundo Van Isseldyk Alfredo Guiroy
17:45–17:52	MO21	Fellowships in Endoscopic Spine Surgery: Short- and Long-Term Formats	Jin-Sung (Luke) Kim
17:52–17:59	MO22	University Diploma and Academic Courses—The Endospine Academy Experience	Christoph Laux
17:59–18:06	MO23	Europe-Latin America Collaboration: Regional Experiences and Challenges	Facundo Van Isseldyk
18:06–18:13	MO24	Industry Sponsored Training	Alfonso Garcia
18:13–18:20	MO25	Advancing Education Through Collaborative Research—The ISERF experience	Saqib Hasan
18:20–18:27	MO26	Integrating Endoscopic Spine Surgery into an Orthopedic Residency Program	Cristian Ricardo Correa Valencia
18:27–18:30		Discussion	

Location: Room 6

17:45–18:30		AO Spine Members-only Session: The Modern Spine Career: Early-Trainee Perspectives and Mentorship Pathways	Moderators: Raymond Hah Victor Martin-Gorgojo Jana Felicitas Schader
17:45–18:00	MO27	Inspiring the Next Generation: The Modern Spine Surgeon's Role in Early Mentorship	Jeffrey C. Wang
18:00–18:15	MO28	Guiding Career Pathways: Mentorship for Pre-Medical, Medical, and Allied Health Students	John Liu
18:15–18:30		Discussion	

Global Spine Congress 2026

Thursday

May 28, 2026



Location: Room 1

08:00–09:30		**Congress Opening Ceremony and Opening Symposium**	**Moderators:** Jeffrey C. Wang Patrick C. Hsieh Jean-Jacques Abitbol
08:00–08:03	S001	Congress Welcome Remarks	Jeffrey C. Wang
08:03–08:06	S002	Remarks from the AO Foundation President	Mark Markel
08:06–08:09	S003	Remarks from the AO Spine Chair	Juan Emmerich
08:09–08:12	S004	Remarks from AO Spine Europe and Middle East Regional Chairs	Alpaslan Senkoylu Muzahem Taha
08:12–08:15	S005	Remarks from the Local Host	Ahmet Alanay
08:15–08:30	S006	One step beyond: Transitioning from surgeon to non-surgeon	Karsten Wiechert
08:30–08:40		Questions/Discussion	
08:40–08:55	S007	The History and Future of Cervical and Lumbar Arthroplasty	Michael Janssen
08:55–09:05		Questions/Discussion	
09:05–09:20	S008	The Sacroiliac Joint: Current State of the Art	David Polly
09:20–09:30		Questions/Discussion	

09:30–10:00	**Break**

Location: Room 1

10:00–11:00		**Paper Session: MIS Periop Optimization**	**Moderators:** Paul Arnold Nestor Taboada
10:00–10:05	A001	A 2 Year Retrospective Analysis of Clinical Outcomes for Patients Treated for Single Level Lumbar Disc Herniations with Radiculopathy between Uniportal Interlaminar Endoscopic Spine Surgery and Biportal Endoscopic Spine Surgery	Uday Raman
10:05–10:10	A002	Improvement in Low Back Pain Following Endoscopic Decompression for Spinal Stenosis	Maria Auron
10:10–10:15	A003	Minimally invasive surgery for repair of spontaneous ventral spinal cerebrospinal fluid leaks	David Rowland
10:15–10:20	A004	Objective Gait Assessment After Unilateral Biportal Endoscopic Discectomy: A Prospective Smartphone-Based Analysis of Spatiotemporal Recovery in Lumbar Disc Herniation	Ali Kaplan
10:20–10:25	A005	Clinical Outcomes of Microscopic vs. Endoscopic Decompression for Stable Lumbar Degenerative Spondylolisthesis: a Subgroup Analysis of a Randomized Controlled Trial	Luca Ambrosio
10:25–10:30	A006	Ultra-Early Intervention with Percutaneous Kyphoplasty for Acute Osteoporotic Vertebral Compression Fractures: Efficacy and Safety Outcomes from a High-Volume County Hospital Center	Wenjie Wu
10:30–10:35	A007	Time Frame Classification of Unilateral Biportal Endoscopy for Learning Curve and Relation with Complications	Ahmed Alqatub
10:35–10:40	A008	Implementation of a Multi-Institutional Enhanced Recovery After Surgery (ERAS) for Elective Spine Surgery: Two-Year Michigan Spine Surgery Improvement Collaborative (MSSIC) Experience	Anisse Chaker
10:40–10:45	A009	Clinical Outcomes of Amniotic Membrane Use Following Endoscopic Lumbar Discectomy: A Propensity-Matched Analysis.	Saqib Hasan
10:45–11:00		Discussion	

Location: Room 2

10:00–11:00		Paper Session: Function and Recovery in ASD	Moderators: Ghazwan Hasan, John France
10:00–10:05	A010	Vacuum Discs are Associated with Greater Sagittal Imbalance and Disability in Adult Spine Deformity Patients	Serena Hu
10:05–10:10	A011	Upper Thoracic Spine Alignment: The Missing Piece of the Alignment Puzzle to Improve GAP and T4L1PA Targets	Nuri Demirci
10:10–10:15	A012	Functional Gait Analysis in Adult Spinal Deformity: Insights from Butterfly Diagram and Three-Foot-Zone Evaluation	Woo Jae Jang
10:15–10:20	A013	Effect of Perioperative Sarcopenia Treatment on the Development of Proximal Junctional Disease in Adult Spine Deformity	Yücel Bilgin
10:20–10:25	A014	Mobilization Matters: Early Versus Late Ambulation after Three Column Osteotomy in Adult Spinal Deformity—Predictors and Outcomes	Christopher Lai
10:25–10:30	A015	Biomechanical Advantages Of Antero-Posterior Accessory Rods Configuration In 4-Rod Construct After Pedicle Subtraction Osteotomy	Daniela Bruno
10:30–10:35	A016	Low Normalized Total Psoas Area Predicts Greater Change In Early Stage Sagittal Alignment Following Adult Spinal Deformity Surgery	Michael Jian-Wen Chen
10:35–10:40	A017	Are We Achieving What The Computer Tells Us To? Analysis of Lumbar Pedicle Subtraction Osteotomies with Pre-Bent Rods	Rafael Garcia De Oliveira
10:40–10:45	A018	Determining the expected standing pelvic tilt and sacral slope for a given pelvic incidence in healthy asymptomatic individuals	Fatemeh Alavi
10:45–11:00		Discussion	

Location: Room 3

10:00–11:00		Paper Session: Epidemiology in Spine	Moderators: Bryan Ashman, Amit Jain
10:00–10:05	A019	Anterior Cervical Discectomy and Fusion versus Cervical Disc Arthroplasty for Cervical Degenerative Disc Disease: Alarming Rates of Bias	Marc Abdou
10:05–10:10	A020	SIRIS Spine, the Swiss National Spinal Implant Registry: Design and Early Findings	Thorsten Jentzsch
10:10–10:15	A021	A Critical Appraisal of Reporting Bias in Systematic Reviews and Meta-Analyses Addressing AI and Machine Learning in Spine Surgery	Kenneth Nguyen
10:15–10:20	A022	Utilization Patterns and Clinical Outcomes of Spinal Cord Stimulators for Parkinson's Disease Patients: A National Claims Database Analysis	Sujai Arakali
10:20–10:25	A023	Trends in Robot-Assisted Spinal Fusion Surgeries: An Analysis by Age Group, Race, ZIP Code Income Quartile, and Urban-Rural Classification	Connor Burke
10:25–10:30	A024	“Investigation of the Normative Values of Spinal Sagittal Parameters in the Pediatric Population”	Muhammet Kocaoğlu
10:30–10:35	A025	The Epidemiology of Elective Sacroiliac Joint Fusion: A Study of Clinical Pain Pathways	William Adams
10:35–10:40	A026	The Relationship Between Smartphone Screen Time and Cervical Spondylosis: A Cross-Sectional Study	Siravich Suvithayasiri
10:40–10:45	A027	Impact of GLP-1 Agonist Therapy on Postsurgical Outcomes Following Multilevel Correction for Adult Spinal Deformity: A Propensity Score-Matched Analysis	Robert Ravinsky
10:45–11:00		Discussion	

Location: Room 4

10:00–11:00		**Paper Session: EOS and Beyond**	**Moderators:** Don Moore, Apurva Prasad
10:00–10:05	A028	Complications and Curve Progression in EOS Patients with Extended distraction surgery Intervals in Growing Rod Surgery-A Retrospective cohort study	Yong Hai
10:05–10:10	A029	Hybrid Fixation vs Bilateral VBT in AIS: Striking the Balance Between Durability and Motion	Matteo Traversari
10:10–10:15	A030	Comparison Of Magec Rods and APC Technique in the Management of Early Onset Scoliosis	Uzair Rashid
10:15–10:20	A031	Preoperative Pelvic Incidence-Thoracic Kyphosis Mismatch Predicts Correction of Pelvic Incidence-Lumbar Lordosis Mismatch in Scheuermann's Kyphosis	Kylie Callan
10:20–10:25	A032	Acute Abdominal Compartment Syndrome Following Scoliosis Surgery in a Patient with Rett Syndrome	Mesut Kılıç
10:25–10:30	A033	The predictive value of proximal femur maturity index (PFMI)-based nomogram for distal adding-on following posterior hemivertebra resection and fusion	Zhuojie Xiao
10:30–10:35	A034	Hip Reduction Surgery versus Scoliosis Correction in Non-ambulant Neuromuscular Patients. Which Surgery as a First Step?	Mostafa Meshneb
10:35–10:40	A035	Impact of Preoperative Halo Gravity Traction on Posterior Spinal Fusion Outcomes in Patients with Osteogenesis Imperfecta: The First Comparative Analysis	Paolo Brigato
10:40–10:45	A036	Too Young or Just in Time? Outcomes of Posterior Hemivertebra Resection Under Age Three	Fedde Weenink
10:45–11:00		Discussion	

Location: Room 5

10:00–11:00		**Paper Session: Non-Operative Treatment Options**	**Moderators:** Gene Tekmyster Karsten Wiechert
10:00–10:05	A037	Comparative Safety and Health Service Utilization for Gabapentin versus Non-Steroidal Anti-Inflammatory Drugs for Cervical Radiculopathy: A Retrospective Cohort Study of Academic Centers	Anthony Baumann
10:05–10:10	A038	GLP1 Receptor Agonists in Patients with Spinal Cord Injury: A Propensity-Matched Analysis of Clinical and Functional Outcomes	Hanna Von Riegen
10:10–10:15	A039	Impact of a Transitional Care Clinic on 30–Day Readmissions After Elective Spine Fusion Surgery: A Retrospective Cohort Analysis	Denyse Pitak
10:15–10:20	A040	Bracing and Physiotherapeutic Scoliosis Specific Exercises (PSSE) can be an alternative treatment option for severe scoliotic patients who refused surgery	Nikos Karavidas
10:20–10:25	A041	Evaluation of the Acute Corrective Effect of Customized Scoliosis Braces Produced Using 3D Imaging Technology on Cobb Angle—Single Center Study	Ahmet Hamdi Olçar
10:25–10:30	A042	Conservative Management of the Adult Spinal Deformity Patient: A Biopsychosocial Pain Self-Management Intervention Versus Care-as-Usual—a Comparative Treatment-Based Cohort Study with One-Year Follow-Up	Evelien Hoevenaars
10:30–10:35	A043	Multidisciplinary Tumor Board Evaluations Reduce Complications in Nonoperative Patients with Spinal Tumors	Thomas Buquet
10:35–10:40	A044	Prescription Pattern of Rigid Cervical Collar Use After Cervical Fusion: A National Multicenter Survey of Spine Surgeons in Mexico	Cinthya Alejandra Varas-Aguilar
10:40–10:45	A045	ERAS—An Opportunity for Spinal Surgery—Findings from a Systematic Review	Carl Zipser
10:45–11:00		Discussion	

Location: Room 1

11:00–12:00		**Paper Session: Biologics and Bone Regeneration and Beyond**	**Moderators:** Hardeep Singh, Philip Louie
11:00–11:05	A046	Proteome changes of structural compromised annulus fibrosus collected from degenerative disc patients	Ganesh Swamy
11:05–11:10	A047	Does the Fetus Intervertebral Disc Acquire Microbiome During the Development? A Metagenome Analysis	S. Rajasekaran
11:10–11:15	A048	A Semi-Synthetic Oxysterol (Oxy133) as a Novel Alternative to rhBMP-2 for Bone Regeneration	Marc Abdou
11:15–11:20	A049	Unveiling the Microbiome of InterVertebral Degeneration with Shotgun Metagenomics	S. Rajasekaran
11:20–11:25	A050	Cranial and Caudal Shifts: A Genetic Perspective on Transitional Vertebrae and a Unified Enumeration Algorithm	Kadir Abul
11:25–11:30	A051	Serum Deprivation Induces Autophagic Flux and Apoptosis in Human Nucleus Pulposus Cells: Implications for Intervertebral Disc Degeneration and Potential Therapeutic Strategy	Jong-Beom Park
11:30–11:35	A052	Risk of peritoneal organs violation from two different entry points for lumbar endoscopic surgery: An imaging study	Rafael Barreto Silva
11:35–11:40	A053	Nasal Chondrocyte Spheroids Survive and Integrate in Degenerated Intervertebral Disc	Arne Mehrkens
11:40–11:45	A054	Molecular Spine Research	Ozan Aydogdu
11:45–12:00		Discussion	

Location: Room 2

11:00–12:00		**Paper Session: Preventing Junctional Problems**	**Moderators:** Luis Eduardo Carelli Texeira da Silva, Neel Anand
11:00–11:05	A055	Too Much of a Curve? Rethinking Spinal Alignment Strategies for High Pelvic Incidence Patients	Eeric Truumees
11:10–11:15	A057	Four Milligrams Per Level: Defining the BMP Threshold to Prevent Rod Fracture and Proximal Junctional Kyphosis in Adult Spinal Deformity Surgery	Nuri Demirci
11:15–11:20	A058	Effect of Fusion Construct Length on Standing Balance in Adults with Spinal Deformity	Isador Lieberman
11:20–11:25	A059	Incidence and Risk Factors of Postoperative Motor Deficits After Spine Deformity Surgery: Results of the SDIM (Spinal Deformity Intraoperative Monitoring) Study	Juan Sardi
11:25–11:30	A060	Does Ideal PI–LL Alignment Reduce Compressive Forces at the Thoracolumbar Junction in Normal Individuals?	Stephen Lewis
11:30–11:35	A061	Adult Spinal Deformity Treated With ≤4-Level Fusion: Multicenter Retrospective Analysis of Radiographic, Clinical, and HRQoL Data	Feyzi Kilic
11:35–11:40	A062	The Effect of Preoperative Rehabilitation on Adult Spinal Deformity Patient Outcomes, Patient Recovery Kinetics, and Cost Effectiveness	Anthony Baumann
11:40–11:45	A063	Posterior Vertebral Column Resection with Preservation of Posterior Ligamentous Complex for Severe Angular Spinal Kyphotic Deformity: a Comparative Study	Honghao Yang
11:45–12:00		Discussion	

Location: Room 3

11:00–12:00		Paper Session: Tumor Mapping and Staging	Moderators: Lorin Benneker, Daniel Tobert
11:00–11:05	A064	Management of Painful Spinal Metastases: A Systematic Review of GRADE-Based Evidence Across Pain Types	W. Christopher Newman
11:05–11:10	A065	A Novel Rat Caudal Spine Metastasis Resection Model for Therapeutic Implant Screening	Nitai Klein
11:10–11:15	A066	International Delphi Consensus on Defining the Optimal Surgical Composite Outcome in Primary Malignant Bone Tumors of The Spine	Mark Maclean
11:15–11:20	A067	Influence of High BMI on Prognosis in Patients Undergoing Surgery for Spinal Metastases	Maxwell Sahhar
11:20–11:25	A068	Augmented Reality-Assisted Resection of Intradural Extramedullary Spinal Tumor: A Single-Center Experience	Giacomo Cammarata
11:25–11:30	A069	Development of the Spinal Metastasis Staging (SMS) System: An International Multidisciplinary Expert Panel and Survey Study	Harmen Kuijten
11:30–11:35	A070	Separation Surgery with postoperative SBRT to treat for Spinal Oligometastatic Disease—Evaluation of Carbon Fibre Reinforced PEEK Instrumentation in Comparison to Standard Titanium Fixation	Priyanshu Saha
11:35–11:40	A071	Utilization of Carbon Fiber Spinal Instrumentation in Primary Spinal Tumors: Outcome Analysis from the AO Spine Primary Tumor Research and Outcomes Network	Gisberto Evangelisti
11:40–11:45	A072	Correlation Between Adamkiewicz Artery Level and Tumor Localization in Metastatic Spine Disease: Implications for Preoperative Embolization	Wei-Lin Pan
11:45–12:00		Discussion	

Location: Room 4

11:00–12:00		Paper Session: Complex Cervical Cases	Moderators: Kyung-Chung Kang, Christopher Martin
11:00–11:05	A073	The Correlation Between Changes in Radiological Cervical Parameters and Facial Asymmetry.	Joana Hankollari
11:05–11:10	A074	Cervical Pedicle Inlet Screws: Clinical Results of a Novel Trajectory for Navigated Screw Placement in the Sub-axial Cervical Spine	Christopher Martin
11:10–11:15	A075	Extension of Fusion to the Cervical Spine Versus Upper Thoracic Spine for the Management of Proximal Junctional Kyphosis of Thoracolumbar Fusion	Sang Hun Lee
11:15–11:20	A076	A Decisional Algorithm for the Surgical Treatment of Kyphotic Degenerative Cervical Myelopathy	Stefano Colonna
11:20–11:25	A077	K-Line Tilt as a Predictor of Postoperative Kyphotic Deformity After Laminectomy for Cervical Myelopathy and its Correlation with Clinical Outcomes	Laksh Agrawal
11:25–11:30	A078	Surgical Safety Strategies for Cervical Kyphosis in Ankylosing Spondylitis Based on Modified C7 PSO	Canhua Ye
11:30–11:35	A079	Chiari I Malformation and Scoliosis: does posterior-fossa decompression influence the curve progression? A systematic review of the literature and meta-analysis	Davide Palombi
11:35–11:40	A080	Understanding the Role of Vascular Health in Cervical Muscle Atrophy and Disc Degeneration	Bruno Verna
11:40–11:45	A081	Innovative coronal plane parameters for cervical spine deformity: significance of coronal plane horizontal gaze	Sang Hun Lee
11:45–12:00		Discussion	

Location: Room 5

11:00–12:00		**Paper Session: Construct Failures and Others**	**Moderators:** Dominique Rothenfluh Raymond Hah
11:00–11:05	A082	Perioperative Risk Stratification in Anterior Cervical Discectomy and Fusion: The Importance of Metabolic Syndrome vs Obesity	Brian Neuman
11:05–11:10	A083	Systematic Review of surgical and complications outcomes after multilevel ALIFs	Igor Barreira
11:10–11:15	A084	A Study on the Pattern of Vertebral Marrow Edema During Normal Healing Process After Lateral Lumbar Interbody Fusion and Its Relationship With Early Postoperative Lumbar Symptoms	Xiaopeng Li
11:15–11:20	A085	Preoperative Prediction of ICU Need Following High-Risk Cervical Spine Fusion	Saleh Mostafa
11:20–11:25	A086	Surgical Treatment of Stage III–IV Sacral and Ischial Pressure Ulcers: Patient-Reported Quality of Life and Functional Outcomes From a 9-Year Institutional Cohort	Amir Human Hoveidaei
11:25–11:30	A087	Expandable Cages as Independent Risk Factor for Cage Subsidence in Transforaminal Lumbar Interbody Fusion: A Retrospective Analysis of 530 Patients	Felix Stengel
11:30–11:35	A088	Does preoperative nutritional status influence complications following scoliosis surgery in patients with GMFCS IV-V cerebral palsy?	Emre Kırkgöz
11:35–11:40	A089	Does Crossing the Cervicothoracic Junction in Multilevel Posterior Cervical Arthrodesis Impact Reoperation Rates for Adjacent Segment Disease? A Retrospective Analysis From the University Of Michigan Hospital	Noojan Kazemi
11:40–11:45	A090	High Psychosocial Impact of Complications and Maladaptive Coping Strategies among Spine Surgeons	Rishi Kanna
11:45–12:00		Discussion	

12:00–13:30	Industry Lunch Symposia

Location: Room 1

13:30–14:30		Symposium hosted by Eurospine: Short Constructs, Long Consequences: Planning, Alignment, and Prevention of Mechanical Failure in Degenerative Spine	Moderators: Ahmet Alanay, Dominique Rothenfluh
13:30–13:35	S009	Opening Remarks	Ahmet Alanay
13:35–13:45	S010	The Hidden Challenge: Interbody Fusion Failures and Revision Strategies	Ahmet Alanay
13:45–13:55	S011	The Sagittal Plane Still Matters: Alignment Goals in Degenerative Short Constructs	Yann Philippe Charles
13:55–14:05	S012	Coronal Plane Correction in Degenerative Scoliosis: How Short is Too Short?	Jörg Franke
14:05–14:15	S013	Mechanical Complications and Adjacent Segment Problems: Can We Predict and Prevent Them?	Dominique Rothenfluh
14:15–14:30		Panel Discussion and Case Debate: Should We Extend the Fusion or Trust the Short Construct	

Location: Room 2

13:30–14:30		Symposium hosted by Iraqi Orthopedic and Spine Association (IOA): The Dark Side in Spine Surgery (My Worst Case Ever)	Moderators: Muzahem Taha, Jens Chapman
13:30–13:40	S014	The nightmare of loss of potentials in Neuromonitoring during Complex Spine Surgery	Juan P. Cabrera
13:40–13:50	S015	Behind the scope; my toughest Endoscopic spine case	Ghazwan Hasan
13:50–14:00	S016	Nerve root injury; the cost of millimeters (worst case)	Ahmed Alqatub
14:00–14:10	S017	Implant failure: when metal cannot hold	Arvind G Kulkarni
14:10–14:20	S018	Minimally invasive maximally demanding: Endoscopic spine challenge	Muzahem Taha
14:20–14:30		Discussion	

Location: Room 3

13:30–14:30		**Symposium: Combined Symposium hosted by Turkish Spine Society (TOD)/Turkish Neurosurgical Society (TND)—Spine Section/Turkish Society of Orthopaedics and Traumatology (TOTBİD)—Spine Section: Lumbar degenerative disease**	**Moderators:** Murat Ekşi, Alpaslan Senkoylu
13:30–13:45	S019	Open decompression: Total laminectomy vs Unilateral approach, bilateral decompression	H. Berk Benek
13:45–14:00	S020	Endoscopic approach to degenerative spine	Abdullah Merter
14:00–14:15	S021	Implant or not to implant?	Yetkin Söğüncü
14:15–14:30		Discussion	

Location: Room 4

13:30–14:30		**Symposium hosted by Egyptian Spine Association (ESA): Complications in Scoliosis Surgery: Anticipation, Prevention, and Rescue**	**Moderator:** Mohamed Khattab
13:30–13:40	S022	Neurological Complications in Scoliosis Surgery: From Monitoring to Management	Samer Samy
13:40–13:50	S023	Infection and Wound Complications: Prevention is Better than Cure	Yasser El Banna
13:50–14:00	S024	Implant-Related Complications: Avoidance and Salvage Strategies	El Sharkawi Mohammad
14:00–14:10	S025	Adding on after scoliosis surgery	Mohamed Khattab
14:10–14:30		Panel Discussion	

Location: Room 5

13:30–14:30		**Symposium hosted by North American Spine Society (NASS): Revision Strategies for Failed Interbody Fusions**	**Moderator:** Norman Chutkan
13:30–13:38	S026	Evaluation of Fusion—Imaging	Hani Mhaidli
13:38–13:46	S027	Revision Strategies for Failed TLIF/PLIF	Patrick C. Hsieh
13:46–13:54	S028	Revision Strategies for Failed DLIF	Jean-Jacques Abitbol
13:54–14:02	S029	Revision Strategies for Failed ALIF	Norman Chutkan
14:02–14:10	S030	Osteobiologic Strategies	Michael Fehlings
14:10–14:18	S031	The Role of Endoscopy after ALIF/DLIF for Persistent Radiculopathy/ Stenosis	Jin-Sung (Luke) Kim
14:18–14:30		Q&A	

Location: Room 1

14:30–15:30		**Paper Session: Thoracolumbar Burst Care**	**Moderators:** Sebastian Bigdon Bradley Jacobs
14:30–14:35	A091	Bracing vs no Bracing for the Nonoperative Management of A3/A4 Thoracolumbar Burst Fractures: Subanalysis from an International Prospective Multicenter Study	Charlotte Dandurand
14:35–14:40	A092	A Novel Surgical Approach to Thoracolumbar Fractures: Our Experience	Dora Riva
14:40–14:45	A093	The AO Spine TL Classification System in Acute Thoracolumbar Fractures: Choice of Treatment and Implementation in Clinical Setting	Vahid Buyukayten
14:45–14:50	A094	Removal versus Retention of Posterior Spinal Implants in Patients with Healed Thoracolumbar Junction Fractures: Analysis of Clinical and Radiographic Outcomes	Raboudi Hamza
14:50–14:55	A095	The Effect and Mechanism of Methylprednisolone Combined with ADSCs which Over-expression BDNF in the Treatment of Acute Spinal Cord Injury in Rats	Wencehn Ji
14:55–15:00	A096	Risk Factors of New Vertebral Fracture After Vertebroplasty For Osteoporotic Vertebral Compression Fracture	Jong Hyeok Park
15:00–15:05	A097	Against All Odds: Six-Year Outcomes of Thoracolumbar Burst Fracture Surgery in a District Hospital of Bangladesh	Md.Mahamudul Hasan
15:05–15:10	A098	Reliability and validity of the AO Spine Patient Reported Outcome Spine Trauma (PROST) version 1.1 in individuals with longstanding spinal cord injury	Said Sadiqi
15:10–15:15	A099	Return to work after treatment for thoracolumbar burst fractures: results from a prospective multicenter international cohort study	Mohamed Ali
15:15–15:30		Discussion	

Location: Room 2

14:30–15:30		Paper Session: Harnessing the Immune System	Moderators: Youssry Elhawary Manabu Ito
14:30–14:35	A100	Sterile Wound Healing or Deep Infection? Serum Protein Signatures identify Mechanistic Pathways After Spinal Surgery: A prospective matched-cohort study.	Siegmund Lang
14:35–14:40	A101	Immune Profiling Identifies Specific Cell Alterations in Postoperative Spinal Infections: A Prospective Matched-Control Study.	Siegmund Lang
14:45–14:50	A103	Free calcium and the Extracellular Calcium-Sensing Receptor Regulate Intervertebral Disc Degeneration and Calcification	Michael Grant
14:50–14:55	A104	Molecular Characterization and Classification of Chordoma Dictate Individualized Therapeutic Strategies	Tong Meng
14:55–15:00	A105	Dual Mechanisms of Susceptibility: Distinct Immune and Inflammatory Landscapes of Type 1 and Type 2 Diabetes in Murine Spinal Implant-Associated Infection and the Potential for Metabolic Intervention	Thomas Olson
15:00–15:05	A106	The impact of histone deacetylase (HDAC) inhibition on neurobehavioural outcomes in preclinical models of traumatic and non-traumatic spinal cord injury: a systematic review	Oliver Mowforth
15:05–15:10	A107	Reprogramming the Immune Microenvironment with an Antimicrobial Peptide-Loaded Nano-Hydroxyapatite/Collagen Hydrogel for Enhanced Bone Regeneration in Osteomyelitis	Jinzheng Liang
15:10–15:15	A108	A Clinico-Molecular classification scheme for ossification of ligamentum flavum: based on 1034 cases	Longjie Wang
15:15–15:30		Discussion	

Location: Room 3

14:30–15:30		Paper Session: Imaging that Predicts	Moderators: Yann Philippe Charles Stefan Parent
14:30–14:35	A109	Comparative Analysis of MRI-Based VBQ Score and CT-Based HU with DEXA-Based T-Score in Assessing BMD in Degenerative Spine	Ajoy P Shetty
14:35–14:40	A110	Utility of intraoperative ultrasound in the surgical treatment of spine trauma injuries	Ashraf El Naga
14:40–14:45	A111	Comparative Analysis of DXA, vBMD, CT-HU, and VBQ Score as Independent Risk Factors and Correlates of Cage Subsidence Following LLIF	Chao Chen
14:45–14:50	A112	Body Roundness Matters? Two-Year Lumbar Fusion Outcomes Stratified by BRI (Body Roundness Index)	Arvind G Kulkarni
14:50–14:55	A113	How Low Can We Go? Can We Further Reduce Radiation Exposure During Scoliosis Radiographic Examination?	Stefan Parent
14:55–15:00	A114	Vascular Window At The Surgical Corridor For L5–S1 ALIF According To Pelvic Incidence	Alexandry Carvalho
15:00–15:05	A115	The predictive value of multifidus degeneration in osteoporotic vertebral compression fracture (OVCF) patients with kyphosis deformity	Junyu Li
15:05–15:10	A116	Preoperative Paraspinal Muscle Quality is an Independent Predictor of Prolonged Hospitalization After Surgical Intervention for Lumbar Spine Trauma	Mauricio Avila
15:10–15:15	A117	Evaluating the Prognostic Role of Computed Tomography Hounsfield Units in Anticipating Spinal Outcomes Post-Instrumentation: A Systematic Review and Meta-analysis	Chinedu Egu
15:15–15:30		Discussion	

Location: Room 4

14:30–15:30		**Paper Session: Personalizing Degenerative Care**	**Moderators:** Ahmed Shawky Abdelgawaad, Juan P. Cabrera
14:30–14:35	A118	Sustainability in lumbar decompression surgery—Small tweaks leading to greater wins	Shahnawaz Haleem
14:35–14:40	A119	Improved Outcomes Using a Novel Low-modulus 3D-printed Porous Titanium Alloy Cage (Osteo Match) versus PEEK Cage in Osteoporotic Patients Undergoing Lumbar Interbody Fusion: an Early-Stage Follow-up with CT Scans	Weishi Li
14:40–14:45	A120	Effectiveness of Tranexamic Acid in Elective Lumbar Spine Surgery Cases: A single-center ambispective investigation	Stylianos Kapetanakis
14:50–14:55	A122	Sex Specific Analysis of the Prognostic Factors Associated with Reaching Minimally Clinically Important Difference One-Year Post Surgery Across Common Degenerative Lumbar Conditions: A CSORN Study	Raja Rampersaud
14:55–15:00	A123	Impact of Preoperative Glucagon-Like Peptide Analog Therapy on 90–Day and 1-Year Complications Following Laminectomy in Overweight Adults: A Large Multicenter Propensity-Matched Study	Muaz Wahid
15:00–15:05	A124	The Differential Impact of Tobacco, Non-Tobacco Nicotine, and Cannabis on Postoperative Complications After Lumbar Decompression	Rakesh Patel
15:05–15:10	A125	3D Morphometric Evaluation of Surgical Strategies for Lumbar Sagittal Alignment Restoration	Mete Özer
15:10–15:15	A126	Single-Position Lateral-Decubitus ALIF for Lumbar spinal pathologies: A Retrospective Cohort Study.	Ahmed Nenaa
15:15–15:30		Discussion	

Location: Room 5

14:30–15:30		**Paper Session: TB of the Spine**	**Moderators:** Amin Henine, Basem Ishak
14:30–14:35	A127	Machine Learning-Based Prediction of In-Hospital Mortality in Spondylodiscitis: A Multicenter Retrospective Analysis	Felix Corr
14:35–14:40	A128	Surgical Outcomes of Posterior-only Surgery for Thoracolumbar Spinal Tuberculosis: A Five-year Case Series of 83 Patients from A High-burden Region.	Phuc Diep
14:40–14:45	A129	Reassessing Neurological Risk in Spinal Tuberculosis: The Dominant Role of Mechanical Instability Over others	S. Rajasekaran
14:45–14:50	A130	Fluoroscopic Guidance Gives More Useful Results than CT Guidance in Transpedicular Spine Biopsy	Rishi Kanna
14:50–14:55	A131	Surgical Site Infection from Posterior Cervical Fusion: A 10 Year Institutional Experience	Zayaan Tirmizi
14:55–15:00	A132	Prevalence Of Spinal Tuberculosis Among Extrapulmonary TB Including MDR Spinal TB: A Systematic Review	Julian Scherer
15:00–15:05	A134	Oral Iron Supplementation After Lumbar Decompression and Fusion Is Associated With Increased Infection Risk	Vivian Chen
15:05–15:10	A135	Age- and Localization-Dependent Pathogen Distribution and Mortality in Pyogenic Spondylodiscitis: Insights from 10,801 Nationwide Cases	Siegmund Lang
15:10–15:30		Discussion	

15:30–16:00	**Break**

Location: Room 1

16:00–17:00		Paper Session: Cervical Trauma	Moderators: Yoshiharu Kawaguchi, Said Sadiqi
16:00–16:05	A136	Surgical Management of Traumatic C2-C3 Subluxation with Bilateral Carotid Artery Dissection	Marcelo Ochoa Coelho De Souza Furlan
16:05–16:10	A137	Prognostic Significance of C7-T1 Involvement in Unstable Subaxial Cervical Fractures Treated Surgically: A Multicenter Retrospective Study	Guillermo Ricciardi
16:10–16:15	A138	Anterior Spinal Artery Visualization On CT Angiography As a Prognostic Marker In Acute Cervical Spinal Cord Injury	Baptiste Boukebous
16:15–16:20	A139	Mortality Risk in Type II Dens Fractures: The Role of Pneumonia and Neurocognitive Disorders after Anterior Screw Fixation in a German Level 1 Trauma Center	Kenny Hagar
16:20–16:25	A140	The Role of Hounsfield Units In Predicting Cage Subsidence After Lateral Lumbar Interbody Fusion: A Systematic Review And Meta-Analysis	Chen Zhang
16:25–16:30	A141	Management and Outcomes of Coincident Traumatic Atlantoaxial Fractures: A Level 1 Trauma Center Case Series	Ashraf El Naga
16:30–16:35	A142	A Rare Case of Delayed Intra Cranial Hypotension with Unilateral Multiple Cranial Nerve Palsies from Cerebro Spinal Fluid Leak in a Whiplash Injury.	Debasish Hajra
16:35–16:40	A143	Micro-Structural MRI Is a Biomarker Which Predicts Baseline Heterogeneity and Outcomes after Acute Cervical Spinal Cord Injury—Insights from the RISCIS Imaging Sub-Study	Mohammed Ali Alvi
16:40–16:45	A144	MRI Signal Intensity and Extension as Predictors of Clinical Outcomes in Cervical Spinal Cord Injuries	Enrico Giordan
16:45–17:00		Discussion	

Location: Room 2

16:00–17:00		Paper Session: Adult Deformity Decisions	Moderators: Manish Kasliwal, Neel Anand
16:00–16:05	A145	The Effectiveness and Safety of Staged Halo-pelvic Traction Combined with Posterior Spinal Fusion in the Treatment of Severe Rigid Spine Deformity: a Prospective Cohort Study	Honghao Yang
16:05–16:10	A146	Underestimated Subtype in Coronal type C Degenerative Scoliosis: Absence of Lumbar Fractional Curve Increase Postoperative Coronal Imbalance Risk	Yong Qiu
16:10–16:15	A147	Can Ideal L1PA and T4PA-L1PA Mismatch Predict Mechanical Failure in Circumferential Minimally Invasive Adult Spine Deformity Correction?	Neel Anand
16:15–16:20	A148	Is Crossing the Thoracolumbar Junction Necessary? Reevaluating Upper Instrumented Vertebra Selection to Minimize Proximal Junctional Complications	Andrea Pezzi
16:20–16:25	A149	How Imaging Speaks: The Role of Supine Versus Standing Radiology in Adult Degenerative Deformity Surgery	Buse Sarigul
16:25–16:30	A150	Evaluating Clinically Meaningful Outcomes in Adult Spinal Deformity Surgery: MCID Analysis of Functional and Social Improvements	Eeric Truumees
16:30–16:35	A151	Radiographic Predictors of Functional and Pain Outcomes in Scheuermann's Kyphosis: A ROC-Based Minimal Clinically Important Difference (MCID) Analysis	Eeric Truumees
16:35–16:40	A152	Impact of Pre-operative Staged Skull-Femoral Traction Followed by Spinal Osteotomy and Posterior Instrumented Fusion in Severe Rigid Spine Deformity: Two-Year prospective Outcomes	Sharif Jonayed
16:40–16:45	A153	Geriatric Nutritional Risk Index as a Predictor of Postoperative Outcomes in Elderly Patients Undergoing Spinal Deformity Surgery	Ataollah Shahbandi
16:45–17:00		Discussion	

Location: Room 3

16:00–17:00		**Paper Session: Advanced MISS**	**Moderators:** Ram Kiran Alluri, Jin-Sung (Luke) Kim
16:00–16:05	A154	Complications in Cervical Minimally Invasive Spine Surgery: A Proportional Meta-Analysis of Tubular, Uniportal, and Biportal Approaches	Noah Willett
16:05–16:10	A155	Bipotal endoscopic tranforaminal lumbar interbody fusion (BE-TLIF) : Evaluation clinical and CT- based radiological outcome	Songwut Sirivitmaitree
16:10–16:15	A156	Quantitative Radiological Assessment Of Interlaminar And Transforaminal Endoscopic Lumbar Decompression For Cauda Equina Syndrome: A 12-Month Prospective Study	Joel Stoy
16:15–16:20	A157	To evaluate the efficacy of spinal anesthesia in patients undergoing minimal invasive single level transforaminal lumbar interbody fusion (MIS TLIF) surgery and to compare the results with that of general anesthesia.	Maitreya Patil
16:20–16:25	A158	Endoscopic Resection of Lumbar Intradural Spinal Tumors: A Case Series on Feasibility, Safety, and Preliminary Outcomes	Facundo Van Isseldyk
16:25–16:30	A159	Unilateral Biportal Endoscopic with Modified Arcocristectomy for Pinching Cervical Spondylotic Myelopathy: Surgical Technique and Early Experiences	Qiang Yang
16:30–16:35	A160	Unilateral Biportal Endoscopic Decompression Combined with Percutaneous Pedicle Screw Fixation for Burst Fractures	Chun Tseng
16:35–16:40	A161	Comparison Of Uniportal Endoscopy(UE) Versus Unilateral Biportal Endoscopy (UBE) In The Treatment Of Severe Upward-Migrated Lumbar Disc Herniation: A Multicenter Study	Chongwen Wang
16:40–16:45	A162	Outcomes of Posterior Endoscopic Cervical Discectomy: A Retrospective Study of 30 Patients	Atif Ali
16:45–17:00		Discussion	

Location: Room 4

16:00–17:00		**Paper Session: State of the Art of Arthroplasty**	**Moderators:** Pierce Nunley Christina Ottomeyer
16:00–16:05	A163	TDR versus Fusion—Live Systematic Review and Metanalysis	Igor Barreira
16:15–16:20	A166	Long-Term Outcomes of Cervical Disc Replacement And Anterior Cervical Discectomy and Fusion: A Review of FDA IDE Trials with Real-World Comparison	Marc Abdou
16:20–16:25	A167	Long-term clinical outcomes beyond ten years following lumbar total disc replacement: a systematic review and meta-analysis	Arnaud Delafontaine
16:25–16:30	A168	Less superior adjacent syndrome and lower reoperation rate. Medium- and long-term results of cervical arthroplasty versus anterior cervical arthrodesis: Systematic Review and Meta-analysis of randomized clinical trials.	Jorge Nuñez
16:30–16:35	A169	Functional Radiographic Assessment of 772 Patients Treated with 1 Level Lumbar TDR: An Analysis of Pelvic ROM and L1 Race as Motion Parameters.	Thierry Marnay
16:35–16:40	A170	Comparison of Outcomes Between Single-Level Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion in Nicotine-Dependent Patients	Ankit Hirpara
16:40–16:45	A171	Complications following cervical and lumbar artificial disc replacement—a retrospective analysis between 2014 and 2022	Karsten Ritter-Lang
16:45–17:00		Discussion	

Location: Room 5

16:00–17:00		**Paper Session: Preventing Infection in Spine**	**Moderators:** Pouya Alijanipour Marcin Czyz
16:00–16:05	A172	Expandable Cage versus Mesh Cage in the Treatment of Vertebral Osteomyelitis	Leah Carreon
16:05–16:10	A173	Effect of Allograft Bone Culture Findings on Surgical Site Infection	Henar Mª Arqueros Martinez
16:10–16:15	A174	Impact of the Duration of Antibiotic Prophylaxis on Surgical Site Infection Rate in Patients Undergoing Complex Spinal Surgery for Spinal Metastases.	Omer Ahmed
16:15–16:20	A175	What Is Worse: A Comparison of Solitary Versus Multifocal Pyogenic Spondylodiscitis Using a Nationwide Analysis of Readmission Rates and Risk Factors	Luke Jouppi
16:20–16:25	A176	The Biopsy Dilemma in Spinal Infections: Timing of Antibiotics and Diagnostic Yield	Elie Najjar
16:25–16:30	A177	Ideal Classification System Including Instability Score Which Could Guide Management	Harvinder Singh Chhabra
16:30–16:35	A178	Changing Tides in the Treatment of Spondylodiscitis?—Retrospective Comparison of Mortality and Quality of Life after Surgical and Conservative Treatment	Victoria Buschmann
16:35–16:40	A179	Is Povidone-Iodine Irrigation in Spine Surgery a Game-Changer? A Meta-Analysis of RCTs on Surgical Site Infection Prevention	Chinedu Egu
16:40–16:45	A180	Establishment and Validation of an Infection Prevention and Control System Following Vertebral Augmentation: A Hybrid Design Study with Historical Controls and Prospective Validation	Wenjie Wu
16:45–17:00		Discussion	

Location: Room 1

17:00–18:00		**Symposium: Errors and Complications with Spinal Robotics and Navigation**	**Moderators:** Jean-Jacques Abitbol, Hani Mhaidli
17:00–17:10	S032	Spine Surgical Robotics: History and Current Status	Hani Mhaidli
17:10–17:20	S033	Registration process errors of robotic navigation in spine surgery	Norman Chutkan
17:20–17:30	S034	How to avoid and manage adverse events in robotics spine surgery	Patrick C. Hsieh
17:30–17:40	S035	Robot-assisted vs freehand pedicle screw fixation in spine surgery	Jeffrey C. Wang
17:40–17:50	S036	Cost efficiency of robotic navigation spine surgery	Jean-Jacques Abitbol
17:50–18:00		Discussion	

Location: Room 2

17:00–18:00		**Symposium: High-Level Evidence-Based Medicine for Endoscopic Spine Surgery**	**Moderators:** Jin-Sung (Luke) Kim, Kwang-Sup Song
17:00–17:10	S037	Comparing the Efficacy and Safety of Biportal Endoscopic Spine Surgery with Microscopic Surgery for Lumbar Herniated Intervertebral Disc and Spinal Stenosis: A Multicenter, Prospective, Assessor-blinded, Randomized Controlled Trial	Sang-Min Park
17:10–17:20	S039	Evaluation of the Efficacy and Safety of Minimally Invasive Transforaminal and Biportal Endoscopic Lumbar Interbody Fusion to Treat Lumbar Spinal Stenosis (BELIFS Trial): A Multicenter Prospective RCT	Hyun-Jin Park
17:20–17:30	S040	Beyond the Microscope: Is Endoscopic Discectomy the Next Gold Standard for Lumbar Disc Herniation?: Systematic review	Jin-Sung (Luke) Kim
17:30–17:40	S041	Percutaneous Transforaminal Endoscopic Discectomy Versus Microendoscopic Discectomy for Lumbar Disc Herniation: A Randomized Controlled Trial	Luis Yi-Hao Liang
17:40–17:50	S042	Percutaneous Transforaminal Endoscopic Discectomy versus Open Microdiscectomy: Evidence from the Dutch RCT	Biswadjiet Sanjay Harhangi
17:50–18:00		Q&A session	

Location: Room 3

17:00–18:00		**Symposium: What Every Spine Physician Should Know About Cervical Trauma**	**Moderators:** David Gendelberg, Richard Bransford
17:00–17:10	S043	Cervical Spine Injuries: Injury Identification, Prevalence, and Guiding Principles	David Gendelberg
17:10–17:20	S044	Spinal Cord Injuries: Evaluation, Initial Management, and Evidence Based Practice	Christoph Hofstetter
17:20–17:30	S045	Occipitocervical Injuries: Identification, Contemporary Management, and Outcomes	Richard Bransford
17:30–17:40	S046	Decision Making for Injuries To C2: When Is Fixation Indicated?	Catherine Olinger
17:40–17:50	S047	Unstable Subaxial Cervical Injuries: Current Concepts and Controversies	Ashraf El Naga
17:50–18:00		Case Presentation and Discussion	

Location: Room 4

17:00–18:00		**Symposium: Cervical DDD: The Role for ACDF or TDR in 2026**	**Moderator:** Michael Janssen
17:00–17:10	S048	The Role of Cervical Total Disc Arthroplasty Technology in 2026	Michael Janssen
17:10–17:13	S049	Moderator Presentation of the cases	Michael Janssen
17:13–17:15		Audience Survey	
17:15–17:25	S050	Point: Cervical Spine Fusion (ACDF) for the management of degenerative disc disease	Pierce Nunley
17:25–17:35	S051	Counter Point: Cervical Total Disc Replacement (TDR) for the management of degenerative disc disease	Christina Ottomeyer
17:35–17:39	S052	Spontaneous Rebuttal Debate	Pierce Nunley, Christina Ottomeyer
17:39–17:41		Audience Post Debate Survey	
17:41–17:46	S053	When to use Fusion and Non Fusion Technology for patients with Cervical DDD	Michael Janssen
17:46–18:00		Q&A	

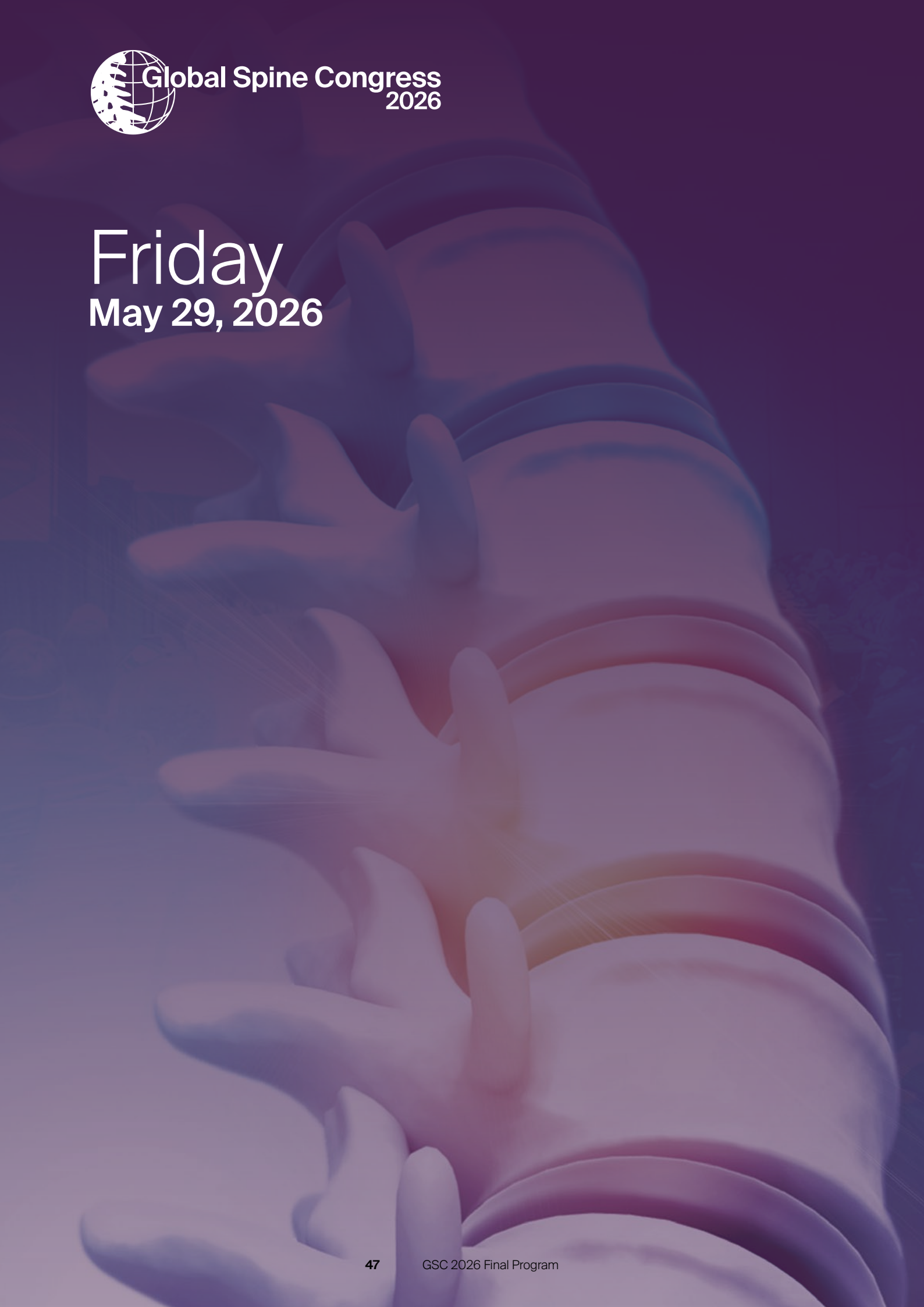
Location: Room 5

17:00–18:00		**Symposium: Introduction To Interventional Procedures in a Surgical Practice**	**Moderators:** Gene Tekmyster, Karsten Wiechert
17:00–17:10	S054	The Specifics of Epidural Steroid Injections: Approaches, Medications, and Technical Nuances	Karsten Wiechert
17:10–17:20	S055	Not Every Injection is an Epidural, Targeting other Structures—A Primer on Anterior and Posterior Column pain (Facet Interventions and Basivertebral Nerve Ablation)	Gene Tekmyster
17:20–17:35	S056	How I Use Epidural Steroid Injections in My Surgical Practice/ Epidural Injections as a Predictor Surgical Outcome	Ram Kiran Alluri
17:35–17:50	S057	Spine Interventional Procedures—Risks, Radiation, Safety, Complications and Management of Anticoagulant/Antiplatelet Agents	Gene Tekmyster
17:50–18:00		Panel Discussion	

18:00–19:30	**Networking event: Welcome Reception and Awards Ceremony**

Global Spine Congress 2026

Friday
May 29, 2026



Location: Room 3

07:00–08:00		**Women in Spine Breakfast Symposium**	**Moderators:** Emily Mills Serena Hu
07:00–07:10	S059	Leadership for Women in Spine	Serena Hu
07:10–07:20	S060	Building Collaboration Within and Outside of your Institution	Zorica Buser
07:20–07:30	S061	How to Get Involved in Societies and Why This is Important	Laura Scaramuzzo
07:30–07:40	S062	A Road Map for Inclusivity: What Can I Do to Help?	Norman Chutkan
07:40–08:00		Panel Discussion and Q&A	

Location: Room 1

08:00–09:00		**Symposium hosted by the AO Spine Knowledge Forum Degenerative: What's Novel and Exciting about Osteobiologics**	**Moderators:** Patrick C. Hsieh S. Tim Yoon
08:00–08:05	S062	Welcome Remarks	S. Tim Yoon
08:05–08:13	S063	How to evaluate and choose the optimal osteobiologics in spine fusions for degenerative conditions?	Hardeep Singh
08:13–08:21	S064	When and when not to use BMP-2 in degenerative spine fusion	Amit Jain
08:21–08:29	S065	Clinical evidence and outcomes of Cell-Based osteobiologics	Gianluca Vadalà
08:29–08:37	S066	Novel and exciting osteobiologics on the horizon	Samuel Cho
08:37–08:45	S067	Application of AOGO into clinical practice	Luca Ambrosio
08:45–08:53	S068	Cost-effectiveness considerations for Osteobiologics	Philip Louie
08:53–09:00		Discussion	

Location: Room 2

08:00–09:00		**Symposium hosted by AO Spine Korea: Endoscopic Spine Surgery: Mastering Complex Cases and Complications**	**Moderators:** Kwang-Sup Song Dong Kyu Chin
08:00–08:08	S069	Lumbar decompression	Sang-Min Park
08:08–08:16	S070	Cervical decompression: From radiculopathy to myelopathy	Pius Kim
08:16–08:24	S071	Full-endoscopic decompression for Thoracic OYL	Pius Kim
08:24–08:32	S072	Biportal endoscopic lumbar fusion: Advanced strategies	Hyun-Jin Park
08:32–08:40	S073	Multi-level Decompression: Endoscopic decomression vs. MIS fusion	Jeong-Yoon Park
08:40–08:48	S074	Expanding Indications: Infection or tumor cases	Min-Seok Kang
08:48–09:00		Discussion	

Location: Room 3

08:00–09:00		**Symposium: The Latest in Prediction Models for Metastatic Spinal Disease**	**Moderators:** Lorin Benneker, Marco Palanca
08:00–08:08	S075	Introduction: Why do we need these prediction models?	Jorrit-Jan Verlaan
08:08–08:16	S076	Why prediction models are not yet widely embraced	Joost Rutges
08:16–08:24	S077	Working with prediction models in clinical practice	Peter Vajkoczy
08:24–08:32	S078	How to build a reliable model to predict pathological fractures	Marco Palanca
08:32–08:40	S079	How to build a model to predict quality of life	Harmen Kuijten
08:40–08:48	S080	How to build a model to predict survival	Daniel Tobert
08:48–09:00		Discussion: Will these models really change our practice?	Lorin Benneker

Location: Room 4

08:00–09:00		**Symposium hosted by AO Spine Knowledge Forum Deformity: Next-Generation Approaches in Adult Spinal Deformity**	**Moderators:** Zeeshan Sardar, David Polly, Christopher Shaffrey
08:00–08:05	S081	Optimizing Fixation in the Osteoporotic Deformity Patient: Bone Health and Novel Implants	Serena Hu
08:05–08:13	S082	Custom rods—How different are the options?	Brian Neuman
08:13–08:17	S083	Robotics: Enhancing Precision in Spinal Deformity Surgery	Zeeshan Sardar
08:17–08:22	S084	Pelvic Fixation—Novel Techniques	Christopher J. Nielsen
08:22–08:30	S085	Moving from predictive models to digital twins: the future of big data in adult deformity care	Christopher Ames
08:30–08:35	S086	Interbody Cages in Spinal Deformity: Custom implants, expandable, or static hyperlordotic?	Justin Smith
08:35–08:43	S087	Minimally Invasive Strategies for Adult Deformity: How Far Can We Go?	Neel Anand
08:43–09:00		Discussion	

Location: Room 5

08:00–09:00		**Symposium: Preventing Complications in Cervical Spine Surgery: Evidence-Based Strategies and Modern Techniques**	**Moderators:** S. Rajasekaran, Jong-Beom Park
08:00–08:08	S088	ACDF: Preventing Pseudarthrosis and Cage Subsidence—Optimizing Endplate Preparation, Lordosis Targets, and the Use of Osteobiologics	Jae Jun Yang
08:08-08:16	S089	CDA: Multilevel CDA vs. Hybrid Constructs—Complications, Heterotopic Ossification, and Adjacent Segment Disease	Feifei Zhou
08:16-08:24	S090	Posterior Cervical Foraminotomy: Restenosis and Recurrence—Risk Factors, Technical Optimization, and Revision Strategy	Kyung-Chung Kang
08:24-08:32	S091	Laminoplasty: Reducing Axial Neck Pain and Postoperative Kyphosis	Yoshiharu Kawaguchi
08:32-08:40	S092	Anterior and A-P combined surgery in K-line (-) OPLL: strategies for preventing CSF leakage and optimizing surgical outcomes	Jae Jun Yang
08:40–08:48	S093	Precautions and Technical Pearls in Cervical Deformity Surgery	Yu Sun
08:48-09:00		Discussion	

Location: Room 1

09:00–10:00		**Paper Session: Effect of Osteoporosis on Spine Care Management**	**Moderators:** Gaston Camino-Willhuber W. Bradley Jacobs
09:00–09:05	A181	Osteoporosis and Perioperative Management Trends in Posterior Cervical Fusion Patients Between 2012–2022	Marc Abdou
09:05–09:10	A182	Validation of vertebral Hounsfield Unit measurement on CT against DEXA for the diagnosis of osteoporosis: A cross-sectional study	David Flórez
09:10–09:15	A183	From Imaging to Failure Load—Hounsfield Units as Predictors of Bone Quality in Lumbar Spine Surgery	Anto Abramovic
09:15–09:20	A184	Mechanical Properties Estimation of Lumbar Vertebral Endplates Based on Volumetric Bone Mineral Density	Chao Chen
09:20–09:25	A185	Lumbosacral Transitional Vertebrae: Ffrequency And Implications In Radiological Analysis	Micaela Besse
09:25–09:30	A186	Forearm bone mineral density predicts adjacent segment disease following transforaminal lumbar interbody fusion similar to lumbar Hounsfield unit value in patients with lumbar degenerative disease	Qian Chen
09:30–09:35	A187	The Impact of Preoperative MRI-Defined Mild Instability on Outcomes After Posterior Open-Door Laminoplasty: A Retrospective Cohort Study	Haijun Tian
09:35–09:40	A188	Impact of Screw Diameter on the Mechanical Performance of Cement-Augmented Lumbar Spinal Fusion Constructs	Akar Jani
09:40–09:45	A189	Predicting Cage Subsidence After TLIF Using HU: A Combined Model with PROMs and Machine Learning Validation	Elie Najjar
09:45–10:00		Discussion	

Location: Room 2

09:00–10:00		**Paper Session: Complex Cervical Myelopathy**	**Moderators:** Markus Loibl Jefferson Wilson
09:10–09:15	A192	Tandem degenerative spinal stenosis: Predicting outcomes using Machine learning from a 12-year experience at a tertiary care centre	Het Shah
09:15–09:20	A193	Obstructive Sleep Apnea and 30–Day Outcomes After Posterior Cervical Decompression and Fusion: Insights from a National Propensity-Matched Analysis	Pouya Alijanipour
09:25–09:30	A195	The Submandibular Retropharyngeal Approach: A Safe Corridor to the Upper Anterior Cervical Spine—Anatomical Stepwise Dissection and Clinical Case Illustration	Alexander Küffer
09:30–09:35	A196	Postoperative Neurologic and Functional Outcomes in Myasthenia Gravis Patients Undergoing Cervical Spine Surgery for Myelopathy	Hanna Von Riegen
09:35–09:40	A197	Dual-Rod Modification in Posterior Cervical Instrumentation: Minimum 5–Year Follow-Up Results	Muhammed Fatih Serttaş
09:40–09:45	A198	Developmental Cervical Spinal Stenosis in Degenerative Cervical Myelopathy: Distinct Clinical Features, Surgical Patterns, and Recovery Ceiling Effect	Rui Chen
09:45–10:00		Discussion	

Location: Room 3

09:00–10:00		**Paper Session: Thoracic/Cervical MIS**	**Moderators:** John Liu, Kwang-Sup Song
09:05–09:10	A200	Endoscope-assisted Anterior Cervical Discectomy and Fusion (ACDF) Outperforms Microscope-assisted ACDF in Improving Postoperative Swallowing Function with the Use of Zero-P Cage	Yi-Hao Liang
09:10–09:15	A201	Comparative Analysis of Posterior Cervical Endoscopic Discectomy and Posterior Cervical Microscopic Discectomy	Atif Ali
09:15–09:20	A202	Erector spinae plane block augmentation following unilateral biportal endoscopic TLIF: A randomized controlled trial	Songwut Sirivitmaitree
09:20–09:25	A203	3D-navigation-guided Endoscopic Lumbar Medial Branch Rhizotomy for Failed Back Surgery Syndrome	Sheng Jia Huang
09:25–09:30	A204	Lumbar Epiduroneurolysis: A Prospective Observational Study on Its Efficacy as a Minimally Invasive Treatment for Lumbar Canal Stenosis in Patients Refuse for Surgery	Muhamad Aulia Rahman
09:30–09:35	A205	Open fixation with arthrodesis versus percutaneous fixation without arthrodesis in pure ligamentous B2 thoracolumbar fractures: a comparative non-inferiority study	Oscar Bravo
09:35–09:40	A206	The “One-and-a-Half” Minimally Invasive Transforaminal Lumbar Interbody Fusion: A Single-Center Retrospective Case Series	Roger Härtl
09:40–09:45	A207	Comparative Study Between MIS TLIF and OLIF in Management of Lumbar Degenerative Spondylolisthesis: Clinical And Radiological Outcome	Apurba Gorain
09:45–10:00		Discussion	

Location: Room 4

09:00–10:00		**Paper Session: Adolescent Scoliosis Care**	**Moderators:** Riccardo Cecchinato Saumyajit Basu
09:00–09:05	A208	Average 20 year clinical and radiographic follow up of short segment anterior spinal fusion for adolescent idiopathic scoliosis	Theodore Choma
09:05–09:10	A209	Optimal Tranexamic Acid Dosing for Adolescent Idiopathic Scoliosis Surgery: A Network Meta-Analysis	Yan Silva
09:10–09:15	A210	A Step Closer To Bringing Idiopathic Scoliosis Monitoring At Home: A Smartphone App Accurately Generates Digital Twins in 624 Pediatric Patients	Jean Ouellet
09:15–09:20	A211	Association Between Correction Index and Patient Reported Outcome Scores in Severe Spine Deformity	Arthur Sackeyfio
09:20–09:25	A212	Wiltse Approach and Inter-Apophisary Fusion for Adolescent Idiopathic Scoliosis: Analysis of Complications at the 2-Year Follow-up.	Georgios Bakaloudis
09:25–09:30	A213	Beyond Bending Films: Estimating Scoliosis Flexibility from Standing and Supine Radiographs	Fedde Weenink
09:30–09:35	A214	Selective Thoracic Fusion With Postoperative Bracing Versus Non-Selective Fusion In Lenke 1C Adolescent Idiopathic Scoliosis: A Propensity Score–Matched Analysis	Giovanni Viroli
09:35–09:40	A215	Multicenter Retrospective Validation Study of Artificial Intelligence–Assisted Bone Age Estimation from Left-Hand Radiographs: Comparison of Idiopathic Scoliosis Patient Groups and Healthy Controls	Bilge Yilmaz
09:40–09:45	A216	Enhanced Recovery After Surgery in Adolescent Spinal Deformities: From Experimental Pathway to Routine Practice	Chiara Cini
09:45–10:00		Discussion	

Location: Room 5

09:00–10:00		**Paper Session: Tumor Reconstruction**	**Moderators:** C. Rory Goodwin, Sun-Ho Lee
09:00–09:05	A217	Surgical Management of Multiple Myeloma Vertebral Column Lesions—Results from an International Survey Distributed to the AO Spine Knowledge Forum Tumor.	Peter Vajkoczy
09:05–09:10	A218	Evaluation of Adverse Events and The Impact on Health-Related Outcomes in Patients Undergoing Surgery for Metastatic Spine Tumors: Analysis of The Metastatic Tumor Research And Outcomes Network (MTRON) Registry Dataset	Gisberto Evangelisti
09:10–09:15	A219	Bone graft Substitutes and Spinal Fusion Outcomes in Spine Oncology	Claudio Tatsui
09:15–09:20	A220	Hybrid Spine Reconstruction Using an Expandable Cage Combined with Vascularized Free Fibula Autograft After En Bloc Spondylectomy for Primary Bone Tumors of the Mobile Spine	Laurence Rhines
09:20–09:25	A221	Local Disease Control And Survival Analysis After Surgical Treatment Of Spinal Metastases: Comparison Between Carbon Fiber-Reinforced Polythertherketone And Titanium Implants For Posterior Stabilization	Giuseppe Tedesco
09:25–09:30	A222	Morphological Descriptors Associated with Biomechanical Deterioration and Need for Stabilization in Spinal Metastases—Results from a Modified Delphi Study from the AO Spine Knowledge Forum (KF) Tumor	Aron Lazary
09:30–09:35	A223	First Use of Cesium-131 Embedded Collagen Tiles for Brachytherapy in the Spine: Combined Surgical Resection and Brachytherapy for Recurrent Rectosigmoid Adenocarcinoma Metastasis to the Sacrum with 1-Year Follow Up	Anisse Chaker
09:35–09:40	A224	Neurological Recovery After Delayed Surgery for MESCC: Outcomes in Patients With Paralysis Exceeding 48 Hours	Feng Wei
09:40–09:45	A225	Impact of Bowel and Bladder Dysfunction on Patient Reported Outcomes in Patients Undergoing a Sacrectomy for a Primary Bone Tumor	Raphaele Charest Morin
09:45–10:00		Discussion	

10:00–10:30	**Break**

Location: Room 1

10:30–11:30		**Paper Session: Patient-Specific Innovation**	**Moderators:** Abhay Nene, Ilyas Aleem
10:30–10:35	A226	Towards Digital Outcome Measures in Spine Care: Psychometric properties of MoveMed for Degenerative Cervical Myelopathy	Ali Gharooni
10:35–10:40	A227	From CT to 3D-Printable Guide in Minutes: Automated Design of Patient-Specific Pedicle Screw Templates via Point Transformer	Qingzhi Xiang
10:40–10:45	A228	Cervical Spinal Cord Stimulation Can Have Promising Outcomes: Early Results of a Clinical Trial	Harvinder Singh Chhabra
10:45–10:50	A229	Extended Reality-Enhanced Spine Consultations Positively Impact Patient Experience	Richard Price
10:50–10:55	A230	The Use of a Custom 3D-Printed Patient-Specific Native PEEK Implant for Complex En Bloc Spinal Sarcoma Resection and Reconstruction	Rafael De La Garza Ramos
10:55–11:00	A231	The Validity and Educational Impact of Virtual Reality in Training Spine Surgeons: A Systematic Review	Matthew Cecere
11:00–11:05	A232	Descriptive Study of Artificial Intelligence-Assisted Preoperative Evaluation in Patients with Lumbar Spinal Stenosis	Sebastian Moreno Herrera
11:05–11:10	A233	Evaluating Surgeon Proficiency in the Novel Robotic-Assisted Muscle-Preserving (RAMP) Decompression	Giuseppe Loggia
11:10–11:15	A234	Comparative Analysis of Machine Learning Models for Osteoporosis Prediction Using Lumbar CT-Derived Hounsfield Units	Akihiko Hiyama
11:15–11:30		Discussion	

Location: Room 2

10:30–11:30		**Paper Session: Outcomes for Cervical Myelopathy**	**Moderators:** Ashraf El Naga, Cheng-Li Lin
10:30–10:35	A235	Dynamic MRI in Cervical Myelopathy: Factors Associated with New Compression Findings	Juan Ignacio Perez Abdala
10:35–10:40	A236	The CHANGE Criteria for Screening Patients with Suspected Degenerative Cervical Myelopathy	Lindsay Tetreault
10:40–10:45	A237	Development of a Predictive Model for the Use of Dynamic Cervical MRI in Patients with Degenerative Cervical Myelopathy	Juan Ignacio Perez Abdala
10:45–10:50	A238	Recovery patterns from C5 palsy after anterior cervical decompression and fusion, posterior cervical decompression and fusion, and laminoplasty for degenerative cervical myelopathy: systematic review and meta-analysis of 748 C5 palsy cases	Sathish Muthu
10:50–10:55	A239	Is Patient Satisfaction Static at 5 Years After Surgery for Cervical Spondylotic Myelopathy? A Spine CORe QOD Review	Praveen Mummaneni
10:55–11:00	A240	Performance on Tandem Gait Does Not Predict the Presence of Cervical Myelopathy or Stenosis	John France
11:00–11:05	A241	A Retrospective Comparative Study of Unilateral Biportal Endoscopy versus Anterior Cervical Decompression and Fusion for Cervical Spondylotic Radiculopathy: An Analysis of 166 Cases	Hu Dong
11:05–11:10	A242	Safety and effectiveness of anterior corpectomy surgery for cervical myelopathy due to the ossification of posterior longitudinal ligaments	Soobin Im
11:10–11:15	A243	Adverse Impact of Frailty on Postoperative Outcomes of Cervical Laminoplasty	Ataollah Shahbandi
11:15–11:30		Discussion	

Location: Room 3

10:30–11:30		Paper Session: Management of Osteoporotic Fractures	Moderators: Ratko Yurac, Noojan Kazemi
10:30–10:35	A244	More Than a Spinal Injury: the Clinical Significance of Sternal Fractures in Thoracic Spine Trauma—a Retrospective Analysis of 4th Column Fractures of the Spine	Josina Straub
10:35–10:40	A245	Spinopelvic Dissociation in Polytrauma: Challenges, Complications and the Role of Triangular Fixation	Alicia Collado Gosalvez
10:40–10:45	A246	Management of AO Classification Type B2 Thoracolumbar Fractures: Results of Classic Open Arthrodesis Versus Percutaneous Posterior Fixation	José Gengler Prieto
10:45–10:50	A247	Can we all use the OF score? A Validation Study in a Chilean Cohort	Oscar Bravo
10:50–10:55	A248	Clinical Comparation of Two Surgical Methods in the Treatment of Re-fracture of the Cemented Vertebrae: Re-percutaneous Vertebroplasty or Posterior Fixation?	Wenlong Yang
10:55–11:00	A249	Surgical management of osteoporotic vertebral fractures: current techniques, indications, and knowledge gaps	Martin Holas
11:00–11:05	A250	A New Classification of Kummell Disease Based on Imaging Features and Clinical Manifestations of 168 cases	Chaoyuan Ge
11:05–11:10	A251	Compression Rate Progression of Osteoporotic Vertebral Compression Fracture in Conservative Treatment	Jaewan Soh
11:10–11:15	A252	Impact of Paravertebral Sarcopenia on Long-Term Survival and Functional Recovery After Percutaneous Kyphoplasty in Older Adults with Osteoporotic Thoracolumbar Compression Fractures: A Prospective Dual-Center Cohort Study	Wenjie Wu
11:15–11:30		Discussion	

Location: Room 4

10:30–11:30		Paper Session: Complex Deformity Tactics	Moderators: Christopher Mikhail, Kenny Yat Hong Kwan
10:30–10:35	A253	Low Molecular Weight Heparin (LMWH) Prophylaxis is Safe in Patients Undergoing Staged Thoracolumbar Fusion	Serena Hu
10:35–10:40	A254	Is Surgery for AIS Always Successful? A Delphi Consensus Study Including Patient Participation to Define Poor Outcomes and Subsequent Identification of Incidence in a Large Multicenter Database	Raf Mens
10:40–10:45	A255	False postoperative PI-LL mismatch due to altered hip coverage: implications onthe surgical outcome of adult spinal deformity	Zhen Liu
10:45–10:50	A256	Best in Class Prediction of PJK with a Novel T1-T9 Pelvic Angle Mismatch	Nuri Demirci
10:50–10:55	A257	Efficacy of Halo Pelvic Traction versus Halo Gravity Traction in Treating Severe Rigid Spinal Deformity- A Matched Retrospective Study	Yong Hai
10:55–11:00	A258	Risk Stratification and Clinical Classification for Postoperative Neurological Complications in Post-tuberculosis Kyphosis: A Retrospective Cohort Study	Yong Hai
11:00–11:05	A259	Impact of Pelvic Fusion on Walking Performance Following Scoliosis Correction Surgery	Isador Lieberman
11:05–11:10	A260	Dystrophinopathy in the paravertebral muscle of adolescent idiopathic scoliosis: a prospective case-control study in China	Hanze Zheng
11:10–11:15	A261	PI-LL should be replaced by PI-L4S1 to determine optimal lordosis in lumbar fusions	Fatemeh Alavi
11:15–11:30		Discussion	

Location: Room 5

10:30–11:30		Paper Session: Thoracic Disc Surgery in Focus	Moderators: Jens Chapman, So Kato
10:30–10:35	A262	Patients with Chronic Low Back Pain Without Advanced Disk Degeneration Exhibit Gut Microbiome Dysbiosis: Evidence from an Age, Sex and BMI Matched Study.	Stone Sima
10:35–10:40	A263	Bilateral Transforaminal Microdiscectomy (TFMD) Combined With Ponte Osteotomy In Thoracic Disc Surgery	Buse Sarigul
10:40–10:45	A264	Clinical and Economic Outcomes of Open, Microscopic, and Endoscopic Techniques for Thoracic Discectomy: A Single Institution Study	Mark Lambrechts
10:45–10:50	A265	Stem Cell Therapy for Degenerative Disc Disease: A Systematic Review of Preclinical Evidence, Clinical Translation, and Future Directions: Systematic Review	Marcelo Ochoa Coelho De Souza Furlan
10:50–10:55	A266	Benchmarking surgical approaches to thoracic disc herniation: A retrospective database study	Manish Kasliwal
10:55–11:00	A267	Progression of Disc Degeneration over 23 Years from Adolesence to Adulthood	Teija Lund
11:00–11:05	A268	Recurrent Lumbar Disc Herniation: A Systematic Review and Meta-Analysis of Risk Factors, Surgical Timing, and Outcomes of Revision Discectomy Versus Fusion	Robert Ravinsky
11:10–11:15	A270	Outcomes of Endoscopic vs. Traditional Lumbar Microdiscectomy: A Comparitive cohort analysis	Hanna Von Riegen
11:15–11:30		Discussion	

Location: Room 1

11:30–12:30		Paper Session: Recovery Influencers in Lumbar Surgery	Moderators: Sameh Abolfotouh, Michael Janssen
11:30–11:35	A271	Prevalence of Radiculitis After TLIF With Expandable Cage: Our Experience and Comparison With the Literature	Diego Prado
11:35–11:40	A272	Paraspinal Muscle Degeneration and Spinal Mobility: Evidence from the Berlin Back Study	Lea Hühren
11:40–11:45	A273	Forearm bone mineral density predicts screw loosening after lumbar fusion similar to lumbar Hounsfield unit value in patients with lumbar spondylolisthesis	Zheng Li
11:45–11:50	A274	ALIF standalone vs ALIF + posterior instrumentation: precise indications and long-term outcomes. A systematic review	Oscar Molina-Romero
11:50–11:55	A275	Risk of Nerve Injury in LLIF: A Propensity-Matched Assessment of Retractor Time and Postoperative Neurologic Outcomes	Kyle Dann
11:55–12:00	A276	Discharge Hemoglobin Impacts Functional Recovery After Lumbar Fusion	Leah Carreon
12:15–12:30		Discussion	

Location: Room 2

11:30–12:30		Paper Session: Endoscopic MIS	Moderators: Young San Ko, Avelino Parajon
11:30–11:35	A280	Comparative Analysis of Uniportal and Biportal (Contralateral and Ipsilateral) Endoscopic Spine Surgery for Cervical Foraminal Stenosis: Clinical and Radiographic Outcomes	Korawish Mekariya
11:35–11:40	A281	Endoscopic Discectomy Reduces Subsequent Fusion: A Multinational, Real-World Comparative Study	Sung Huang Laurent Tsai
11:40–11:45	A282	Validation of a Novel Grading Scale (VIEW Score) for Intraoperative Visualization in Endoscopic Spine Surgery: A Multi-Center Reliability and Clinical Utility Study	Surachat Jaroenwareekul
11:45–11:50	A283	Comparison of Unilateral Biportal Endoscopic Lumbar Interbody Fusion(UBE-LIF) and Conventional OPEN TLIF in degenerative Lumbar Spine Disease: A Radiological, Clinical and Laboratory Study	Yunus şamil Gönüldenk
11:50–11:55	A284	Comparison of One-Year Clinical Outcomes Between Unilateral Biportal and Full Endoscopic Lumbar Interbody Fusion: A Single-Surgeon Retrospective Cohort Study	Abhirat Suebsing
11:55–12:00	A285	Comparative Analysis of Full Endoscopic Unilateral Laminotomy with Bilateral Decompression Using 3D Versus 2D Spine Endoscopy for the Treatment of Spinal Stenosis: A Retrospective Study	Yu-Hsuan Chung
12:00–12:05	A286	Clinical Comparative Study of Video-assiste Thoracoscopic Surgery and Uniportal Endoscopic Spine Surgery in the Treatment of Thoracic Disc Herniation	Kunfeng Song
12:05–12:10	A287	Intraoperative local methylprednisolone in single-position lateral decubitus oblique lumbar interbody fusion (OLIF) for postoperative anterior thigh pain prevention: a randomized controlled trial	Kantadon Prateepswangwong
12:10–12:15	A288	Minimally Invasive Lateral Lumbar Interbody Fusion Showed a Lower Incidence of Radiologic Adjacent Segment Pathology than Conventional Posterior Lumbar Interbody Fusion	Jaewan Soh
12:15–12:30		Discussion	

Location: Room 3

11:30–12:30		**Paper Session: Patient Factors That Affect Complications**	**Moderators:** Ahmed Alqatub Naresh Kumar
11:30–11:35	A289	Efficacy of proximal junctional tethering in spinal fusion surgery for preventing proximal junctional kyphosis and proximal junctional failure: A meta-analysis	Tan Nguyen
11:35–11:40	A290	Comparing the prognostic value of standard, modified, calibrated, and T2-weighted vertebral bone quality scores for cage subsidence following single-level anterior cervical discectomy and fusion: a retrospective observational study	Omar Lubbad
11:40–11:45	A291	Preoperative Malnutrition Is Associated With Increased Postoperative Complications Following Lumbar Fusion: A Propensity-Matched Analysis	Ali Mehaidli
11:45–11:50	A292	Presentations, Management Strategies, and Outcomes of Intracardiac Cement Embolism Following Spinal Vertebral Augmentation: A Systematic Review of Case Reports	Omar Lubbad
11:50–11:55	A293	Complications After Anterior Lumbar Interbody Fusion in Patients with Prior Abdominal Surgery	Aidan Lindgren
11:55–12:00	A294	Prevention of Revision Surgery Through Wound Drainage in Elderly Patients Undergoing Posterior Spinal Fusion Surgery—A Prospective Randomized Multicenter Study	Klaus Schnake
12:00–12:05	A295	Extended Oral Antibiotic Prophylaxis After Anterior Cervical Spinal Fusion Is Associated With Increased Infection and Sepsis Rates	Vivian Chen
12:05–12:10	A296	Should Venous Thromboembolism Chemoprophylaxis Be Utilized Following Spinal Fusions? A Clinical Decision Analysis	Ilyas Aleem
12:10–12:15	A297	The use of the psoas-to-lumbar vertebrae index and modified frailty index in predicting postoperative complications in degenerative spine surgery: can sarcopenia or frailty be underestimated?	Marco Manzetti
12:15–12:30		Discussion	

Location: Room 4

11:30–12:30		**Paper Session: Biomechanics in Your Practice**	**Moderators:** Arne Mehrkens, Stephen Lewis
11:30–11:35	A298	Dynamic Assessment of Sagittal Balance in Patients with Degenerative Spinal Deformity: A Controlled Biomechanical Study	Armand Dominik Škapin
11:35–11:40	A299	Intervertebral Disc Degeneration: Age-Related Mechanical Changes and Possible Influence on Adjacent Vertebrae	Margherita Pasini
11:40–11:45	A300	Early Adjacent Segment Degenration and Disc Biochemical Markers	Theodore Choma
11:45–11:50	A301	Spino-pelvic Sagittal Changes During Growth: Result from a Longitudinal Retrospective Study on 134 patients	Matteo Traversari
11:50–11:55	A302	Greater Cage Angle ≠ Greater Alignment: Rethinking TLIF Planning	Schahin Salmanian
11:55–12:00	A303	Biomechanical comparison of realignment strategies in patients with lumbar fusion to the pelvis	Christopher J. Nielsen
12:00–12:05	A304	Biomechanical Analysis of Long-Segment Cervical Spine Stabilization: Finite Element Analysis of Pedicle, Pars, Translaminar and Hybrid Screw Fixation Models	Mohamad Bakhaidar
12:05–12:10	A305	Comparison Of Posterior Atlantoaxial Spondylodesis Procedures: A Biomechanical Cadaver Study	Titus Kuehlein
12:10–12:15	A306	Biomechanics of Lumbar Lateral Interbody Fixation Augmented with Pedicle Screws, Facet Screws, or Spinous Process Plate	Kingsley Chin
12:15–12:20		Discussion	

Location: Room 5

11:30–12:30		**Paper Session: Diagnostics and Predictive Analytics in Spine**	**Moderators:** Alisson R. Teles, Jorrit-Jan Verlaan
11:30–11:35	A307	Erector Spinae Could be the Game Changer in Surgical Decision-making in Patients with Lumbar Spondylolisthesis: A Cross-sectional Analysis of an Age-, Sex-, Subtype-, Level-matched Patients with Similar Spinopelvic Parameters Received Surgical or Conservative Management	Murat Ekşi
11:40–11:45	A309	Radiological Patterns and Surgical Strategies in Degenerative Lumbar Scoliosis with Shoulder Imbalance: A Novel Classification Approach	Hanze Zheng
11:45–11:50	A310	AI-Assisted Prediction Of RLDH Using Preoperative MRI And Radiographic Parameters	Sebastiano Mazzotta
11:50–11:55	A311	Paraspinal Fat Index for Assessment of Sarcopenia in Spine Research	Emel Özcan-Ekşi
11:55–12:00	A312	Optimization of Patients for Spinal Instrumentation Surgery: Defining the Magnitude of BMD Overestimation with DEXA	Arvind G Kulkarni
12:00–12:05	A313	Assessment of Bone Mineral Density in Patients with Degenerative Spinal Disease by MRI-based Vertebral Bone Quality Score at Different Lumbar Vertebral Levels: An Observational Prospective Study	Youwei Ai
12:05–12:10	A314	Pediatric Developmental Spondylolisthesis May be the First Presenting Symptom of Hereditary Connective Tissue Disorders	Xiangjie Yin
12:10–12:15	A315	Survival Prediction Based on Machine-learning in Severe Traumatic Cervical Spinal Cord Injury Patients: A Multicenter Study	Quanchang Tan
12:15–12:30		Discussion	

12:30–14:00		Industry Lunch Symposia	

Location: Room 1

14:00–15:00		Symposium: From the Court and the Field to the Clinic: Spine Injuries in Athletes	Moderator: Ahmet Alanay
14:00–14:10	S094	Spondylolisthesis in Athletes: Conservative Management, Surgical Treatment, and Return-to-Sport Considerations	Ahmet Alanay
14:10–14:20	S095	Cervical and Lumbar Spinal Stenosis in Athletes	Jens Chapman
14:20–14:30	S096	Disc Herniation in Athletes: Diagnostic and Management Challenges	Basem Ishak
14:30–14:40	S097	From Surgery to the Field: Post-operative Rehabilitation and Return-to-Play Strategies in Athletes	Haşim Ay
14:40–14:50	S098	Specific Case-Based Discussions Illustrating Surgical Indications	Nelson Astur
14:50–15:00		Discussion	

Location: Room 2

14:00–15:00		Symposium: Complex Craniovertebral Junction Surgery	Moderators: Juan P. Cabrera Patrick C. Hsieh
14:00–14:10	S099	Central atlantoaxial instability: Introduction of a new concept	Atul Goel
14:10–14:18	S100	Understanding the novel clinical and radiological indicators of atlantoaxial instability	Apurva Prasad
14:18–14:26	S101	Occipito-cervical fixation and complications	Mehmet Zileli
14:26–14:34	S102	Alternatives of fixation and innovations in complex atlantoaxial instability	Tao Fan
14:34–14:42	S103	Minimal invasive C1-2 posterior fixation in degenerative cases	Fenna Brunken
14:42–14:50	S104	Anterior approach to the craniovertebral junction	Luis Eduardo Carelli Texeira Da Silva
14:50–14:55	S105	Case presentations and discussion	Juan P. Cabrera
14:55–15:00		Questions and Answers	All Speakers

Location: Room 3

14:00–15:00		**Symposium hosted by the AO Spine Knowledge Forum Trauma and Infection: Osteoporotic Thoracolumbar Fractures—When to Operate?**	**Moderators:** Klaus Schnake, Ratko Yurac
14:00–14:10	S106	Osteoporotic Vertebral Insufficiency Fractures (OVCF)—The new challenge (epidemiology, outcome with conservative treatment, reasons for conservative failure)	Gaston Camino-Willhuber
14:10–14:20	S107	OVCF classification and treatment decision (OF classification and OF-score)—The value of having a classification and score	Ulrich Spiegl
14:20–14:30	S108	Complications and Revisions: How to Avoid and How to Manage	Lorin Benneker
14:30–14:50	S109	Controversies in Treatment Approaches for Osteoporotic Fractures (OF 3) Debate 1: Conservative treatment; Debate 2: Vertebroplasty only Debate; 3: Stabilization; Audience voting: From Debate to Bedside: Has Your Treatment Strategy for OF 3 Changed?	Ashraf El Naga, Sebastian Bigdon, Maximilian Reinhold
14:50–15:00		Q&A Session	

Location: Room 4

14:00–15:00		**Symposium: The Decompensated Sagittal Profile: How far can we tolerate?**	**Moderators:** Ahmed Shawky Abdelgawaad, Stephen Lewis
14:00–14:08	S110	The Normal Sagittal Profile and Compensatory Mechanisms	Caglar Yilgor
14:08–14:16	S111	Sagittal Decompensation and Failure of the Compensatory Mechanisms	Michael Kelly
14:16–14:24	S112	Treatment Options	Robert Ravinsky
14:24–14:32	S113	Modern aspects in preoperative/operative planning	Yann Philippe Charles
14:32–14:40	S114	Case Presentation	Ahmed Shawky Abdelgawaad
14:40–15:00		Discussion	

Location: Room 5

14:00–15:00		**Symposium: From Chaos to Clarity: Algorithmic Solutions for Spine Surgery Complications**	**Moderators:** Alpaslan Senkoylu, Lorin Benneker
14:00–14:09	S115	When screws loosen: Managing implant failure in osteoporotic spine	Alpaslan Senkoylu
14:09–14:18	S116	Broken promises: Algorithms for pseudoarthrosis management	Pedro Berjano
14:18–14:27	S117	Beyond resection: Handling postop complications of intradural tumors	Marcel Ivanov
14:27–14:36	S118	The leak dilemma: practical pathways for incidental durotomy	Sanesh Miseer
14:36–14:45	S119	The weak shoulder: Navigating postop C5 palsy in cervical myelopathy	Markus Loibl
14:45–14:54	S120	Deep trouble: Algorithmic management of infections in instrumented spine	Marcin Czyz
14:54–15:00		Discussion	

15:00–16:00	**Break**

Location: Room 1

16:00–17:00		**Paper Session: More Complex Tumor**	**Moderators:** Andreas Demetriades, Ilya Laufer
16:00–16:05	A316	Psychological impact of spine sarcoma on wellbeing	Gerard Mawhinney
16:05–16:10	A317	Pre-Operative Embolization Does Not Reduce Blood Loss in Surgery for Hypervascular Spinal Tumors	Amer Sebaaly
16:10–16:15	A318	Intralesional surgery with adjuvant charged-particle therapy in the treatment of intact and recurrent primary spinal tumors	Valerio Pipola
16:15–16:20	A319	Symptom-to-Surgeon Interval in Metastatic Spinal Cord Compression: A Single-Center Retrospective Analysis	Tiago Ribeiro Da Costa
16:20–16:25	A320	Mapping Surgical Invasiveness in Oncologic Surgery for Spinal Metastases: A Scoping Review	Rafael De La Garza Ramos
16:25–16:30	A321	Statistical Description Of Relevant Mechanical Parameters Of Metastatic Vertebrae	Silvia Casadei
16:30–16:35	A322	Pseudarthrosis Risk in Patients Undergoing Spinal Fusion for Multiple Myeloma-Associated Vertebral Body Lesions	Hunter Yamada
16:35–16:40	A323	Vertebral Artery Trapping in Metastatic Cervical Spine Tumors: Propensity-Matched Analysis of Surgical Outcomes	WEI-LIN Pan
16:40–16:45	A324	Predictive Factors for Spinal Deformity Following Resection of Intramedullary Spinal Cord Tumors: a 15–Year Retrospective Cohort Study	Vitor Viana Bonan De Aguiar
16:45–17:00		Discussion	

Location: Room 2

16:00–17:00		**Paper Session: Navigation and Robotics in Spine**	**Moderators:** Hani Mhaidli, Roger Härtl
16:00–16:05	A325	Clinical Outcomes of Dual-Pin Reference Frame Placement in MI-TLIF: A Retrospective Review of 266 Pins Using a Three-Zone Grading System	Roger Härtl
16:05–16:10	A326	2D vs 3D Computer-Assisted Navigation in Thoracolumbar Pedicle Screw Placement. Updated Systematic Review with Meta-Analysis of Comparative Clinical Studies.	Waeel Hamouda
16:10–16:15	A327	Trends in Navigation-Guided Spinal Instrumentation Surgeries in The United States	Maxwell Sahhar
16:15–16:20	A328	Trajectory Mismatch Between Navigation-Guided and Anatomically Ideal C3–6 Cervical Pedicle Screws: Clinical Implications	YOSHITAKA Nagashima
16:20–16:25	A329	New innovation for spine navigation	Ufuk Aydinli
16:25–16:30	A330	Thoracolumbar Pedicle Screws Misplacement using 2D Computer-assisted navigation. A Systematic Review and Meta-Analysis with Reported Avoidance Techniques.	Waeel Hamouda
16:30–16:35	A331	Navigation-Guided Spinal Instrumentation: An Exact-Matched Analysis of Outcomes	Maxwell Sahhar
16:35–16:40	A332	Accuracy of Augmented Reality Navigation Versus Freehand Pedicle Screw Placement	Giuseppe Loggia
16:40–16:45	A333	Clinical Observation of Traditional UBE vs. Robot-Assisted Navigated UBE in the Treatment of Severe Lumbar Spinal Stenosis	Yu Zhang
16:45–17:00		Discussion	

Location: Room 3

16:00–17:00		**Paper Session: Lumbar Stenosis and Spondylolisthesis**	**Moderators:** Alpaslan Senkoylu Nelson Astur
16:00–16:05	A334	Is Anchored Stand-Alone ALIF Effective and Safe for the Treatment of Low-Grade L5–S1 Isthmic Spondylolisthesis? A Comparative Study With Posterior Lumbar Interbody Fusion	Stefano Colonna
16:05–16:10	A335	Reactive Sagittal Realignment Drives Low Back Pain Improvement Following Fusionless Decompression for Degenerative Lumbar Spinal Stenosis: A Prospective Analysis	Ahmed Shawky Abdelgawaad
16:10–16:15	A336	Physiologic Decompression of Lumbar Spinal Stenosis Through Anatomic Restoration Using Trans-Kambin Oblique Lateral Posterior Lumbar Interbody Fusion (OLLIF): A Retrospective Analysis	Amir Sharif
16:15–16:20	A337	Risk of Asymmetric Cage Overhang in Standalone LLIF: A Patient-Specific Finite Element Analysis	Zayaan Tirmizi
16:20–16:25	A338	Machine learning-driven clinical and imaging clustering of degenerative lumbar spondylolisthesis: Implications for stratified surgical care	Raja Rampersaud
16:25–16:30	A339	Stand-Alone OLIF: A Viable Treatment Option for Adjacent Segment Disease	Ayush Sharma
16:30–16:35	A340	To determine the optimal extent of fusion in Anterior Lumbar Interbody Fusion (ALIF) for degenerative disc disease. A Retrospective Analysis Based on the University of Michigan Hospital Experience	Noojan Kazemi
16:35–16:40	A341	Impact of Preoperative Sagittal Malalignment on Patient-Reported Outcomes Following Decompression for Lumbar Spinal Stenosis	Shota Tamagawa
16:40–16:45	A342	Enhanced Recovery After Spine Fixation Surgery: An International Survey on Current Practice	Hein Jonkman
16:45–17:00		Discussion	

Location: Room 4

16:00–17:00		**Paper Session: Spinal Pelvic Considerations**	**Moderators:** Serena Hu Ahmet Alanay
16:00–16:05	A343	The Role of Pelvic Compensation in Sagittal Balance and Imbalance: The Impact of Pelvic Compensation on Spinal Alignment and Clinical Outcomes Following Adult Spinal Deformity Surgery	Xiaolong Chen
16:05–16:10	A344	Long-Term Impact of Total Hip Arthroplasty on Subsequent Lumbar Spine Surgery In Patients With Hip-Spine Disease: A Nationwide Analysis of Risk Factors and Outcomes	Aidan Lindgren
16:10–16:15	A345	Impact of Prior Joint Arthroplasty on Outcomes of Lumbar Spinal Fusion: 30% of Patients with Prior Total Hip Arthroplasty Require Revision Lumbar Fusion within 2-years of Surgery	Amer Sebaaly
16:15–16:20	A346	A Comparison of Gait Kinematic and Muscular Activity Between Walking Cane and a Walker in The Elderly with Sagittal Imbalance	Panyajarn Laohapornsvan
16:20–16:25	A347	Sagittal Alignment as a Major Prognostic Sagittal Alignment as a Major Prognostic Determinant in Degenerative Spine Surgery: From 3D Biomechanical Planning to Spinal Instrumentation Optimization Through Robotic Assistance and Intraoperative Navigation	Grouz Khalil
16:25–16:30	A348	Normal Spino-Pelvic Alignment in Healthy Adolescents: Defining the PI–SS Relationship and Laying the Foundations for Pre-operative Sagittal Planning	Matteo Traversari
16:30–16:35	A349	The association between spinopelvic parameters and thoracolumbar spinal forces	Fatemeh Alavi
16:35–16:40	A350	Impact of Lumbar Disc Arthroplasty on Spinopelvic Parameters and Sagittal Balance	Anthony Nguyen
16:40–16:45	A351	Validation of Pelvic Inclination Angle as a Novel Sagittal Parameter in Adult Spinal Deformity Surgery: Association with Postoperative Radiographic and Clinical results	Se-Jun Park
16:45–17:00		Discussion	

Location: Room 5

16:00–17:00		Paper Session: Endoscopy vs Open	Moderators: Alfredo Guiroy, Yong Hai
16:00–16:05	A352	A Decade of Lumbar Tubular Minimally Invasive Spine Surgery: Analyzing Complication Trends Through a Systematic Review and Meta-Analysis	Ibrahim Hussain
16:05–16:10	A353	Oblique Lumbar Interbody Fusion with Anterolateral Screw-Rod Fixation versus Posterior Pedicle Screws for Adjacent Segment Degeneration: A Two-Year Comparative Study	Khanathip Jitpakdee
16:10–16:15	A354	Learning Curve and CUSUM Analysis of the Interlaminar Approach in Full-Endoscopic Spine Surgery: A Phase-Specific Evaluation	Takeshi Kaneko
16:15–16:20	A355	Optimizing OLIF Strategy for Degenerative Spondylolisthesis: Robot-Assisted Single-Position Technique Versus Combined Fixation Approaches	Xilin Liu
16:20–16:25	A356	Evaluation of students perception of the impact of a endoscopic post-graduation program in their professional skills to perform endoscopic surgery	Rafael Lindi Sugino
16:25–16:30	A357	Analysis of imaging findings, comprehensive endoscopic evaluation, and pathological characteristics of a novel interlaminar ligament	Xiaofeng Le
16:30–16:35	A358	Visualized Reamer Foraminaloplasty In Transforaminal Endoscopic Lumbar Discectomy: Controlling Fluoroscopy Times And Optimizing Surgical Workflow	Yongjin Li
16:35–16:40	A359	Expanding Endoscopic Application to Neuromodulation:Novel biportal endoscopic insertion technique for surgical paddle lead	Young San Ko
16:40–16:45	A360	Mid-Term Clinical Outcomes of Unilateral Biportal Endoscopic Discectomy via the Contralateral Sublaminar Approach for Very High-Grade Lumbar Disc Migration	Yong Jin Park
16:45–17:00		Discussion	

Location: Room 1

17:00–18:30		**Symposium hosted by Pan Arab Spine Society (PASS): Spinal Infections: Challenges and Evolving Strategies**	**Moderators:** Youssry Elhawary, Muzahem Taha
17:00–17:10	S121	Pyogenic Spinal Infection: From Diagnosis to Stabilization	Khaled Faraj
17:10–17:20	S122	Specific Infections: Tuberculosis and Beyond	Amin Henine
17:20–17:30	S123	Postoperative Spine Infection: Prevention and Management	Youssry Elhawary
17:30–17:40	S124	Evolving Algorithms in the management of spinal infections: Duration of therapy and emerging innovations	Youssry Elhawary
17:40–17:50	S125	Complex war injuries of the spine; lessons learned and evolving approaches to infection prevention and treatment	Jalal Najjar
17:50–18:00		Panel Discussion and Q&A	

Location: Room 2

17:00–18:00		**Symposium hosted by the Cervical Spine Research Society (CSRS): Optimizing Outcomes in Multi-Level Cervical Degenerative Disease: When to Fuse, Replace, or Hybridize**	**Moderators:** Samuel Cho, S. Tim Yoon
17:00–17:08	S126	Part I: The Two-Level Challenge—The Case for ACDF: The Gold Standard for a Reason. Why Deviate from a Proven Success?	Sanjeev Suratwala
17:08–17:16	S127	Part I: The Two-Level Challenge—The Case for Arthroplasty (ADR): The New Standard of Care. Why Risk Nonunion and Adjacent Segment Disease?	Zeeshan Sardar
17:16–17:24	S128	Part I: The Two-Level Challenge—The Case for Hybrid Constructs: The Best of Both Worlds. Why Not Tailor the Treatment to the Degenerative Cascade?	Ilyas Aleem
17:24–17:32	S129	Part II: Tackling Three or More Levels—The Case for ACDF: Still the Only Proven Option. Is Multi-Level Arthroplasty an Unjustified Experiment?	Samuel Cho
17:32–17:40	S130	Part II: Tackling Three or More Levels—The Case for Hybrid Constructs: The Pragmatic Solution. How to Preserve Motion and Avoid High-Risk Fusions.	Philip Louie
17:40–17:48	S131	Part II: Tackling Three or More Levels—The Case for Posterior/Circumferential: The Definitive Treatment. When a 360° Approach Is the Only Way to Sleep Well at Night.	Christopher Martin
17:48–18:00		Part III: Discussion and Audience Q&A	

Location: Room 3

17:00–18:00		**Symposium hosted by MENA Spine Congress (MSC): Mastering Revision Strategies: A MENA Perspective on Challenging Spine Surgeries**	**Moderators:** Sameh Abolfotouh, Omar Alnori
17:00–17:10	S132	Flatback Syndrome: Restoring Sagittal Balance in Revision	Waleed Awwad
17:10–17:20	S133	Endoscopy in Revision: A Minimally Invasive Option	Muzahem Taha
17:20–17:30	S134	Proximal Junctional Kyphosis (PJK): Prevention and Correction	Sameh Abolfotouh
17:30–17:40	S135	The Power of Lateral: Utilizing OLIF for Revision Deformity Surgery	Omar Alnori
17:40–17:50	S136	Pseudoarthrosis: Revisiting the Failed Fusion	Ghazwan Hasan
17:50–18:00		Q&A	

Location: Room 4

17:00–18:00		**Symposium hosted by European Association of Neurosurgical Societies (EANS): Surgical Challenges at the Four Junctions**	**Moderators:** Enrico Tessitore, Marcel Ivanov
17:00–17:12	S137	Management of intradural CVJ tumors	Nikolay Konovalov
17:12–17:24	S138	Cervico-thoracic fusion: when and how to cross the junction	Enrico Tessitore
17:24–17:36	S139	Is there a consensus on the management of A3 thoraco-lumbar fractures?	Marcel Ivanov
17:36–17:48	S140	Challenges at the lumbosacral junction	Florian Ringel
17:48–18:00		Discussion	

Location: Room 5

17:00–18:00		**Symposium hosted by Singapore Spine Society: Fix-and-Treat or Treat-and-Fix: Navigating the Surgical-Biological Map for Osteoporotic Spines**	**Moderators:** Naresh Kumar
17:00–17:06	S141	Opening Lecture: The Burden of Osteoporotic Spine Pathology—Why Fix and Treat vs. Treat and Fix Matters	Naresh Kumar
17:06–17:10	S142	Opening Lecture: Rapid vs. Long-Term Bone Strengthening: Which Drug, Which Patient?	Naresh Kumar
17:10–17:20	S143	Surgical Realities: Fix and Treat: Urgent Surgery in Fragile Bones—Technical Pearls and Pitfalls	Ou Yang Youheng
17:20–17:30	S144	Surgical Realities: Treat and Fix: Timing Surgery with Preoperative Bone Optimization	John L.T. Chen
17:30–17:42	S145	Translating Evidence to Practice: Case-based Discussions: Real-World Application of Algorithms	Richard Bransford
17:42–17:57	S146	Consensus Panel: Toward a Standardized Clinical Pathways and Algorithm	Naresh Kumar Richard Bransford Dinesh Shree Kumar Ou Yang Youheng John L.T. Chen
17:57–18:00	S147	Closing remarks	Naresh Kumar

Global Spine Congress 2026

Saturday
May 30, 2026



Location: Room 3

07:00–08:00		**AO Spine Youth Club Breakfast Session: Science Slam!**	**Moderators:** Shrey Binyala, Maria-Mădălina Ancuța, Tim Pohlemann
07:00–08:00			

Location: Room 1

08:00–09:00		**Symposium hosted by Lumbar Spine Research Society (LSRS): Lower Back Pain: Diagnosis and Treatment**	**Moderator:** Rakesh Patel
08:00–08:05	S148	Introduction: Evaluating Back Pain Beyond the Spine: Clinical Examination, Radiographic Findings, and Non-Spine Etiology	Rakesh Patel
08:05–08:15	S149	Discography	Ilyas Aleem
08:15–08:25	S150	Diagnosis of Non-Discogenic Sources of Back Pain	Yamaan Saadeh
08:25–08:35	S151	Spinal Fusion: Indications, Efficacy, Approaches, and Level Selection	Noojan Kazemi
08:35–08:45	S152	Total Disc Arthroplasty	Saqib Hasan
08:45–08:55	S153	Endoscopic Medial Branch Transection (MBT) and Annuloplasty	Osama Kashlan
08:55–09:00		Q&A	

Location: Room 2

08:00–09:00		**Symposium: Endoscopic Approach for Cervical Degenerative Disease**	**Moderators:** Jong-Beom Park, Cheng-Li Lin
08:00–08:08	S154	The Expanding Role of Endoscopic Surgery in Cervical Degenerative Disease	Dong-Ho Lee
08:08–08:16	S155	Shared Decision-Making in Motion-Preserving Surgery for Cervical Radiculopathy	Chun Tseng
08:16–08:24	S156	Uniportal Endoscopic Surgery: Indications, Techniques, and Outcomes	Cheng-Li Lin
08:24–08:32	S157	Biportral Endoscopic Surgery: Clinical Evidence and Practical Pearls	Si-Young Park
08:32–08:40	S158	Tubular MISS: Microendoscopic Technique and Outcomes	Yu-Cheng Yeh
08:40–08:48	S159	Complications in Cervical Endoscopic Surgery: Risk Factors, Prevention, and Management Strategy	Yu-Hsuan Chung
08:48–09:00		Discussion	

Location: Room 3

08:00–09:00		**Symposium hosted by AO Spine Knowledge Forum Tumor: Cutting-Edge Technology in Spinal Oncology**	**Moderators:** Ilya Laufer, Sun-Ho Lee
08:00–08:02	S160	Welcome and Framing	Ilya Laufer Sun-Ho Lee
08:02–08:07	S161	AI Decision Support and Digital Twins for Spine Tumors	Marcin Czyz
08:07–08:12	S162	Next-Gen Imaging and Navigation: AR/VR, Exoscopes, Guides	Daniel Sciubba
08:12–08:17	S163	Robotics in Spinal Oncology: Precision and Stability	Christopher Newman
08:17–08:22	S164	3D Printed Technology and Custom Implants	Matthew Goodwin
08:22–08:27	S165	Novel implant materials and fusion adjuncts for spine tumor surgery	Nicolas Dea
08:27–08:32	S165	Advanced Neuromonitoring and Neurophysiologic Mapping	Michael Fehlings
08:32–08:37	S167	Molecular Diagnostics and Liquid Biopsy	Raphaële Charest-Morin
08:37–08:42	S168	Adaptive Radiotherapy and Real-Time Spine SBRT	Hanbo Chen
08:42–08:57		Moderated Panel and Audience Q&A	
08:57–09:00		Closing and Action Items	

Location: Room 4

08:00–09:00		**Joint Symposium Hosted by the AO Spine Knowledge Forum Degenerative & ISSLS**	**Moderators:** Gianluca Vadalà
08:00–08:08	S169	Introduction: Clinical Need and Translational Challenges	S. Tim Yoon
08:08–08:16	S170	Cell-Based Therapies in Clinical Practice: Lessons from First Trials	Gianluca Vadalà
08:16–08:24	S171	Emerging Cell Sources: What's Next for Clinical Translation	Sibylle Grad
08:24–08:32	S172	Cell-Free Approaches: Secretome and Extracellular Vesicles	Luca Ambrosio
08:32–08:40	S173	Injectable Biomaterials for Disc Repair: Enabling Clinical Application	Inbo Han
08:40–08:48	S174	Designing and Conducting Robust Clinical Trials in Disc Regeneration	Roger Härtl
08:48–09:00		Discussion and Q&A	

Location: Room 5

08:00–09:00		**Symposium: Augmented and Virtual Reality Applications in Spine Surgery**	**Moderators:** Richard Price, Philip Louie
08:00–08:03	S175	Introduction to augmented reality in spine surgery	Philip Louie
08:03–08:15	S176	Incorporating augmented reality into your practice	Philip Louie
08:15–08:27	S177	Increasing operative efficiency with augmented reality	Hardeep Singh
08:27–08:39	S178	Augmented reality enhanced TLIFs and XLIFs	Richard Price
08:39–08:51	S179	Enhancing patient engagement and understanding with augmented reality	Richard Price
08:51–09:00		Discussion and questions	

Location: Room 1

09:00–10:00		**Paper Session: AI, AR, and Robotics in Spine**	**Moderators:** Qusai Hammouri Norman Chutkan
09:00–09:05	A361	Evidence-Based AI Decision Support System for Spine Surgery: A Novel Approach Using Dynamic PubMed Integration	Begüm Aslantaş Kaplan
09:05–09:10	A362	Distance-aware Augmented Reality Rendering Platform with Enhanced Accuracy Through User-specific Eye Calibration	Ahmed Aoude
09:10–09:15	A363	New Treatment Approaches for Early-Onset Scoliosis: Early Results of the Combined Use of Magnetically Controlled Growing Rod and Active Apex Control Technique	Mehmet Balioğlu
09:15–09:20	A364	Democratizing the Adoption of Artificial Intelligence: A Global Survey of Spine Surgeons' Needs and Priorities for AI	Luke Jouppi
09:20–09:25	A365	Objective Measurement of Surgical Forces and Jerks for a More Analytical Future in Spinal Surgical Training and Practice—A Study with Novel Sensorised Force-gloves and Interpretable Machine Learning.	Chan Hee Koh
09:30–09:35	A367	The Performance and Clinical Translation of Artificial Intelligence in Preoperative Spine Surgical Planning: A Systematic Review and Meta-Analysis	Marcelo Ochoa Coelho De Souza Furlan
09:35–09:40	A368	Augmented Reality surgical navigation in Transforminal Lumbar Interbody Fusion (TLIF) procedure: a comparative study	Giacomo Cammarata
09:40–09:45	A369	The Diagnostic Efficacy of MRI-Based Vertebral Bone Quality Score in Assessing Bone Mineral Density in Adolescent Idiopathic Scoliosis: A Retrospective Cohort Study	Shahzaib Riaz Baloch
09:45–10:00		Discussion	

Location: Room 2

09:00–10:00		**Paper Session: Degenerative Lumbar Techniques**	**Moderators:** Sathish Muthu S. Tim Yoon
09:00–09:05	A370	Accuracy and Feasibility of S2AI Screw Placement Using Fluoroscopic Guidance: A Prospective Clinical Study	Nilesh Barwar
09:05–09:10	A371	Comparison of muscle fat infiltration index of lumbar paraspinal muscles in people with chronic low back pain and healthy individuals.	Dipak Shrestha
09:10–09:15	A372	Redefining the Learning Curve in UBE-XTLIF: Why Endplate Preparation Matters Most	Young San Ko
09:15–09:20	A373	Global Practice Patterns in the Surgical Management of Primary Lumbar Disc Herniation: An AO Spine Knowledge Forum Degenerative Global Cross-Sectional Study	Luca Ambrosio
09:20–09:25	A374	Interbody Fusion Techniques for L5–S1 Degenerative Spondylolisthesis: A Comparison of Radiographic Correction and Postoperative Complications.	Eren Kuris
09:25–09:30	A375	Prediction of adjacent segment disease after transforaminal lumbar interbody fusion: a predictive model combining multiple radiology variables	Youwei Ai
09:30–09:35	A376	Preoperative geriatric nutritional risk index is useful factor for predicting postoperative delirium among elderly patients with degenerative lumbar diseases	Juehan Wang
09:35–09:40	A377	Static vs. Expandable Cages in Posterior Lumbar Interbody Fusion: Effects on Spinopelvic Alignment and Adverse Events	Enrico Giordan
09:40–09:45	A378	Multidimensional Burden of Low Back Pain: A Prospective Cross Sectional Study of Patient-Reported Outcomes and Sociodemographic Factors at a Tertiary Neurosurgical Center	Pavlina Lenga
09:45–10:00		Discussion	

Location: Room 3

09:00–10:00		Paper Session: AIS Navigator	Moderators: Daniel Sciubba, Stipe Corluka
09:00–09:05	A379	Patient Counselling with Educational Videos May Reduce Postoperative Pain Scores in AIS Patients	Yağız Akcan
09:05–09:10	A380	Does Preoperative and Postoperative Thoracic Kyphosis affect the Cervical and Cervicothoracic alignment in Adolescent Idiopathic Scoliosis?	Juan Esteban Muñoz
09:10–09:15	A381	Clinical and Radiological Outcomes of Hybrid Technique in the Management of AIS with Double Major Curves Over a Minimum 5 years follow up.	Meric Enercan
09:15–09:20	A382	Selective Vs. Non-Selective Thoracolumbar/Lumbar Fusion In Lenke 6C AIS: Impact On Thoracic Curve Correction And Clinical Outcomes	Korawish Mekariya
09:20–09:25	A383	Radiation Exposure in Posterior Fusion for Adolescent Idiopathic Scoliosis: a Comparison Between Low-Dose, 2D Fluoroscopy, Navigation on Preoperative CT Scan and Navigation on Intraoperative CT Scan	Georgios Bakaloudis
09:25–09:30	A384	Preoperative Planning With Gap Score And Virtual Simulation Improves Sagittal Alignment In Adolescent Idiopathic Scoliosis Surgery.	Giovanni Viroli
09:30–09:35	A385	Outcomes of Posterior Spinal Fusion in AIS: A Minimally Invasive vs. Open Technique Analysis	Mario Ropelato
09:35–09:40	A386	Balancing Motion and Correction: Mid-Term Outcomes of Hybrid Fixation in Adolescent Idiopathic Scoliosis	Feyzi Kilic
09:40–09:45	A387	Assessment of Changes in Curve Patterns in Idiopathic Scoliosis: A Single-Center Longitudinal Cohort Study	Anastasios Charalampidis
09:45–10:00		Discussion	

Location: Room 4

09:00–10:00		Paper Session: Regenerating the Disc	Moderators: Zorica Buser, Inbo Han
09:00–09:05	A388	Cartilaginous Endplate and Disc Resorption Failure: Evidence from Histological and Immunohistochemical Analysis	Uruj Zehra
09:05–09:10	A389	Combining engineering precision with clinical relevance : a novel dual framework for assessing pedicle screw accuracy in spine surgery	Arnaud Delafontaine
09:10–09:15	A390	Pre-transfusion Testing In Cervical Spine Surgery: Are We Over-Prepared?	Jorge Nuñez
09:15–09:20	A391	Expression of LBX1 and TGFβ1 in Paraspinal Muscles: Correlation with Curve Severity and Muscle Remodeling in Adolescent Idiopathic Scoliosis	Uruj Zehra
09:20–09:25	A392	Extent of Fatty Infiltration in Lumbar Paraspinal Muscles in Adults with Degenerative Scoliosis: Segmental Differences in Muscle Involvement	Emel Özcan-Ekşi
09:25–09:30	A393	Mechanically Matched Injectable Photocrosslinkable Materials Loaded With Exosomes Repair Combined Annulus Fibrosus-Nucleus Pulposus Defect	Qiang Yang
09:30–09:35	A394	DeVa (Decay Variance): A Novel Score Calculated via Postprocessing the Changes in Signal Intensity of an Intervertebral Disc in a T2* Multi-Echo Magnetic Resonance Image can Quantify Painful and Degenerate Lumbar Vertebral Discs	Stone Sima
09:35–09:40	A395	Unexpected Predictors of Adjacent Disc Degeneration Following Balloon Kyphoplasty: The Role of Vitamin D and Fracture Morphology	Musa Sezer
09:40–09:45	A396	Age-Related Metabolic Signatures in Structurally Normal Intervertebral Discs	S. Rajasekaran
09:45–10:00		Discussion	

Location: Room 5

09:00–10:00		**Paper Session: Lateral/Oblique Fusion**	**Moderators:** Hardeep Singh, Masato Tanaka
09:00–09:05	A397	Full Endoscopic Lumbar Discectomy: 10–Year Single-Centre Experience with Focus on Readmission Trends and Surgical Outcomes	Sasidharan M D S
09:05–09:10	A398	Two Portals, Two Paths, One Goal: Who Reaches Proficiency First?	Yanting Liu
09:10–09:15	A399	Combined Lateral Interbody Fusion and Balloon Kyphoplasty Without Vertebral Body Replacement for Osteoporotic Vertebral Fractures: A Retrospective Case Series	Shogo Tahata
09:15–09:20	A400	Full-Endoscopic vs Microsurgical Decompression for Lumbar Disc Herniation: One-Year Outcomes from a Prospective Comprehensive Cohort Trial (FEMT-LDH-Trial)	Frank Hassel
09:20–09:25	A401	Minimally Invasive versus Open Transforaminal or Posterior Lumbar Interbody Fusion for Degenerative Lumbar Disease and the Long-Term Risk of Adjacent Segment Pathology: A Systematic Review and Meta-Analysis	Farzin Farahbakhsh
09:25–09:30	A402	Patient-Reported Outcome Measures Following Endoscopic Decompression for Cauda Equina Syndrome: An 18-Month Prospective Cohort Study	Joel Stoy
09:35–09:40	A404	Learning Curve and Risk Profile in Thoracoscopic Spine Surgery: A 10–Year Single-Center Experience	Kunfeng Song
09:40–09:45	A405	Safety and accuracy of fully percutaneous cervical pedicle screw instrumentation	Gonzalo Moros-Daza
09:45–10:00		Discussion	

10:00–10:30	**Break**

Location: Room 1

10:30–11:30		**Paper Session: Prevention of Spine Surgery Complications**	**Moderators:** Pedro Berjano, Kevin Taliaferro
10:30–10:35	A406	Do all symptomatic Adjacent Segment Diseases (ASD) require surgery? A Prognostic Classification and Predictors of Surgical treatment of Lumbar ASD	Rishi Kanna
10:35–10:40	A407	Independent Risk Factors for Retrograde Ejaculation after Anterior versus Posterior Lumbar Fusion in Male Patients: A Cox Proportional Hazards Retrospective Analysis	Anthony Baumann
10:40–10:45	A408	The Risk of Dysphagia After Short-Segment Posterior Occipital-C2 Fusion versus C1-C2 Cervical Fusion: A Retrospective Cohort Study	Anthony Baumann
10:45–10:50	A409	Pre-operative Presence of Anterior Osteophyte at L3-L4 and Intrafacet Vacuum Phenomenon at L2-L3 Could be Predictive for Adjacent Segment Disease Following Lumbar Spine Fusion	Murat Ekşi
10:50–10:55	A410	Intraoperative Monitoring of External Urethral and Anal Sphincter Potentials in Lumbar Spine Surgery: A Novel Approach to Preserve Sacral Function	Yoshikazu Yanagisawa
10:55–11:00	A411	Pre-operative Intake of Antipsychotic Medications is Associated with Higher Rates of Healthcare Utilization, Medical Comorbidity, and Opioid Use Following Anterior Cervical Discectomy and Fusion	Ankit Hirpara
11:00–11:05	A412	Incidence of Proximal Junctional Kyphosis and Failure in Long Spinal Fusions With and Without Sublaminar Bands	Nelson Astur
11:05–11:10	A413	Perioperative Visual Loss in Spine Surgery: Risk Factors, Pathophysiology, and Management Strategies.	Sebastiano Mazzotta
11:10–11:15	A414	Propensity Matched Analysis of Anticoagulation After Spine Surgery: More Complications and Longer Stay Without Thromboembolic Gain	Reme Arhewoh
11:15–11:30		Discussion	

Location: Room 2

10:30–11:30		**Paper Session: Decision Making for Lumbar Degenerative Surgery**	**Moderators:** Richard Price Samuel Cho
10:40–10:45	A417	Delayed Initiation of Physical Therapy Following Lumbar Fusion Can Be Associated with Increased Risk of Mechanical Complications, Nonunion, and Surgical Revision: A 5-Year Matched Cohort Analysis	Pouya Alijanipour
10:45–10:50	A418	Percutaneous Minimally Invasive Lumbar Decompression Versus Open Decompression for Lumbar Spinal Stenosis: A Multicenter Randomized Trial Using MRI Endpoints	Kingsley Chin
10:50–10:55	A419	The Suspected Cauda Equina Syndrome Score (SuCESS): Development and Validation of a Clinical Triage Tool.	Elie Najjar
10:55–11:00	A420	Comparison of predictive value for cage subsidence between MRI-based endplate bone quality and vertebral bone quality scores following transforaminal lumbar interbody fusion: a retrospective propensity-matched study	Hong Ding
11:00–11:05	A421	Discoplasty and Decompression as a Novel Approach for Advanced Lumbar Degeneration and Spinal Stenosis: A Case Series	Valentino Latallade
11:05–11:10	A422	Comprehensive Analysis of the Prognostic Factors Associated with Reaching Minimally Clinically Important Differences Across Degenerative Lumbar Conditions: A CSORN Study	Aazad Abbas
11:15–11:30		Discussion	

Location: Room 3

10:30–11:30		**Paper Session: Outcomes of Spine Trauma Management**	**Moderators:** Ichiro Okano Nader Hejrati
10:30–10:35	A432	Timing of Thromboprophylaxis in Acute Spinal Cord Injury Patients: A TQIP Study	Aazad Abbas
10:35–10:40	A428	Minimal Clinically Important Difference (MCID) and long-term prospective validation of the AO Spine PROST (Patient Reported Outcome Spine Trauma)	Said Sadiqi
10:40–10:45	A429	Retrospective Study on Treatment of Osteoporotic Fractures Validating DGOU Classification: a MIOT Experience	Ragul Muruganandhan
10:45–10:50	A430	Is Time Really Spine? A Systematic Review and Meta-analysis of Early Versus Delayed Intervention in Spinal Cord Injury	Wilhelm Hansen
10:50–10:55	A424	Decreased Time to Imaging and Surgery after Implementation of an Acute Traumatic Spinal Cord Injury Pathway	Ashraf El Naga
10:55–11:00	A431	Exploring the Diffusion and Adoption of the AO Spine/Praxis Guidelines 2024: Results from a Cross-Sectional Survey designed and conducted by the AO Spine Knowledge Forum Spinal Cord Injury.	Mario Ganau
11:00–11:05	A427	The Paris Method: a New Decision-Making Algorithm for the Management of Sacral Fractures	Danilo Casasola
11:05–11:10	A425	Hyperextension Injuries in Patients with Ankylosing Spine Disorder: Impact of Pre-Injury Mobility Status on Mortality	Emily Hunt
11:10–11:15	A426	Percutaneous Stabilization of AO B3 Fractures in Patients with Ankylosing Spinal Disorders (ASD) is Associated with Lower Complication Rates Compared to Open Stabilization	Eli Bunzel
11:15–11:30		Discussion	

Location: Room 4

10:30–11:30		**Paper Session: Cervical Degenerative**	**Moderators:** Raj Gala, Sanjeev Suratwala
10:35–10:40	A434	Ligament Reconstruction Of The Cervical Spine: The Anterior Longitudinal Ligament (ALL) And Its Biomechanical Role In Anterior Surgical Approaches	Jana Felicitas Schader
10:40–10:45	A435	Ultra-Early Postoperative Pain Reduction Predicts Long-Term Outcomes Following ACDF: Preliminary Results From a Secondary Analysis of a Randomized Controlled Trial	Jon Håvard Sommernes
10:45–10:50	A436	Complications of Staged versus Same-Day Circumferential Cervical Spine Fusion for Degenerative Disease	Aidan Lindgren
10:50–10:55	A437	Cervical Sagittal Alignment After Multilevel ACDF: Correction Goes Along with Loss of Compensation	Marco Manzetti
10:55–11:00	A438	Impact of Preexisting Heart Failure on Postoperative Adverse Events After Cervical Spine Fusion: A Matched Cohort Analysis	Muaz Wahid
11:00–11:05	A439	Predictors Of Return-to-Work Among Patients Undergoing Cervical Spine Surgery For Radiculopathy—A SpineCORe Study Group QOD Analysis	Michael Tawil
11:05–11:10	A440	Substance-Specific Outcomes After Cervical Fusion: Multicenter, Propensity-Matched Analysis of Tobacco, Non-Tobacco Nicotine, and Cannabis	Reme Arhewoh
11:10–11:15	A441	Discordance Between Minimal Clinically Important Difference and Patient Satisfaction After Surgery for Cervical Spondylotic Myelopathy: A 5-Year Analysis From the Quality Outcomes Database	Youssef Sibih
11:15–11:30		Discussion	

Location: Room 5

10:30–11:30		**Paper Session: Tumor Prognostics**	**Moderators:** Mitchell Hansen, Marcel Ivanov
10:30–10:35	A442	Does Duration of Symptoms in Metastatic Spine Disease Affect Recovery and Outcomes? A Systematic Review and Meta-Analysis	Ilya Laufer
10:35–10:40	A443	Utility of Intraoperative Magnetic Resonance Imaging (iMRI) in Spinal Intramedullary Tumor Surgery	Wei-Ting Lee
10:40–10:45	A444	Incidence and Predictors of Local Recurrence Following Surgical Management of Spinal Metastases	Zainah Moukahhel
10:45–10:50	A445	Evaluating the Real-World Predictive Utility of Karnofsky and ECOG Performance Status for 90–Day Survival After Oncologic Surgery for Metastatic Spinal Tumors	Rafael De La Garza Ramos
10:50–10:55	A446	European Retrospective Multicenter Study In Patients With Vertebral Metastases (Train-Metastra)	Jorrit-Jan Verlaan
10:55–11:00	A447	Effect of Treatment Center Volume on Clinical Outcomes for Primary Malignant Intramedullary Spinal Tumors	Ataollah Shahbandi
11:00–11:05	A448	Proposal of a Novel Approach to Minimally Invasive Stabilization and Short-Course Neoadjuvant Denosumab Treatment Before En Bloc Resection in Enneking Stage 3 Giant Cell Tumors Of The Mobile Spine	Chiara Cini
11:05–11:10	A449	Emergent vs. Delayed Decompression in Cauda Equina Syndrome Secondary to Tumors: What Does the Evidence Say?	Humaid Al Farii
11:10–11:15	A450	Knowledge, Attitudes and Practices of Intraoperative Autologous Blood Cell Salvage in Tumour-related Spine Surgery: A Survey of Singapore Spine Society Members	Hui Zhen Grace Chua
11:15–11:30		Discussion	

Location: Room 1

11:30–12:30		**Symposium hosted by AO Spine Knowledge Forum Spinal Cord Injury: Acute Spinal Cord Injury in LMICs: From Guidelines to Real-World Implementation**	**Moderators:** Ricardo Rodrigues-Pinto **Panelists:** Kabir Abubakar, Farzin Farahbakhsh, Charles Carazzo, Juan José Zamorano
11:30–11:37	S180	Introduction and Barriers to Implementation in LMICs	Ricardo Rodrigues-Pinto
11:37-11:44	S181	The Science Behind “Time is Spine”: AO Spine Guidelines	Guisela Quinteros
11:44-11:52	S182	From Guidelines to System Change: Hospital and System-Level Leadership	Kabir Abubakar
11:52-12:00	S183	Designing a Feasible Acute SCI Pathway in a Low-Resource Hospital	Farzin Farahbakhsh
12:00–12:25	S184	Panel Discussion and Q&A: Practical Realities of Implementation	
12:25–12:30	S185	Take-Home Messages	Ricardo Rodrigues-Pinto
12:14–12:22	S164	The Future of AI in Spinal Surgery: Ethical Implications and Challenges	Max Meng-Huang Wu
12:22–12:30		Panel Discussion	All Speakers

Location: Room 2

11:30–12:30		**Symposium: Cutting-Edge Technology in Spine Surgery**	**Moderators:** Max Meng-Huang Wu, Wongthawat Liawrungrueang
11:30–11:32	S186	Introduction	
11:32-11:38	S187	Mskalign: AI tool for scoliosis screening and management	Shinji Takahashi
11:38-11:44	S188	Current Evidence and Future Perspectives of AI for Spinal Fracture Detection and Management	Wongthawat Liawrungrueang
11:44-11:50	S189	Multimodal AI for Predicting Cage Subsidence	Max Meng-Huang Wu
11:50–11:56	190	AI for Bleeding Detection in Unilateral Biportal Endoscopic Surgery	Takaki Shimizu
11:56-12:02	S191	Augmented Reality for Spine Surgery	Narita Wataru
12:02-12:08	S192	Wearable Device Applications for Spine Surgery	Yudha Mathan Sakti
12:08-12:14	S193	Patient-Specific Digital Twin–Guided Osteotomy and Anterior Column Reconstruction for Thoracolumbar Kyphosis: An Early Twelve-Case Experience	Howard Hao-Wen Chen
12:14-12:20	S194	AI’s Hidden Threats to Practicing Clinical Medicine	Youheng Ou Yang
12:20–12:30		Panel Q&A / Discussion	

Location: Room 3

11:30–12:30		**Symposium: Surgical Treatment of Severe Deformities**	**Moderators:** Munish Gupta
11:30–11:40	S195	Correction strategies in treatment of sagittal plane thoracolumbar and lumbosacral deformities	
11:40–11:50	S196	Evaluation and treatment of coronal plane thoracolumbar deformity	Munish Gupta
11:50–12:00	S197	Surgical treatment of high Thoracic coronal and sagittal plane deformities	So Kato
12:00–12:10	S198	Treatment of cervical spine deformities	Luis Eduardo Carelli Texeira Da Silva
12:10–12:15	S199	Question and answer	
12:15–12:20	S200	Case presentation with Q&A: Posterolateral approach to the thoracic spine—Halo and thoracic release	Luis Eduardo Carelli Texeira Da Silva
12:20–12:25	S201	Case presentation with Q&A: Combined Approach-anterior release	Munish Gupta
12:25–12:30	S202	Case presentation with Q&A: Posterior Vertebral Column Resection	So Kato

Location: Room 4

11:30–12:30		**Symposium Presented on Behalf of AO Spine KF Degenerative Enabling and Emerging Tech Group: The Digital Spine Surgeon: Navigating the Future of AI in Spine Surgery**	**Moderators:** Amit Jain S. Tim Yoon
11:30–11:37	S203	AI, Machine Learning, and Deep Learning: Brief Primer for Spine Surgeons	Sathish Muthu
11:37–11:44	S204	AI-Powered Diagnostics: Improving Radiographic Interpretation and Triage	Stipe Corluka
11:44–11:51	S205	Use of AI in the Clinic: AI Ambient Listening and Optimizing Clinical Workflows	Philip Louie
11:51–11:58	S206	AI for Perioperative Patient Engagement and Outcome Tracking	Amit Jain
11:58–12:05	S207	Natural Language Processing for Research and Quality Improvement	Samuel Cho
12:05–12:12	S208	Preoperative Planning with AI: Predictive Models and Patient-Specific Simulation	Gianluca Vadalà
12:12–12:19	S209	The Intelligent OR: AI in Robotics and Navigation	Patrick C. Hsieh
12:19–12:30		Discussion	

Location: Room 5

11:30–12:30		**Symposium: Thoracolumbar Trauma: Critical Insights for Clinical Practice**	**Moderators:** Richard Bransford Ashraf El Naga
11:30–11:40	S210	Thoracolumbar Injuries: Assessment, Injury Classification, and Treatment Goals	David Gendelberg
11:40–11:50	S211	Compression and osteoporotic fractures: When to intervene?	Sebastian Bigdon
11:50–12:00	S212	Burst fractures: Finding the optimal treatment strategy	Klaus Schnake
12:00–12:10	S213	Decision Making and Outcomes in B-type injuries: Chance and Hyperextension Fractures	Gaston Camino Willhuber
12:10–12:20	S214	Translational/Rotational Injuries: Surgical Considerations for Complex Fracture patterns	Emre Yilmaz
12:20–12:30	S215	Case Presentation and Discussion	
12:12–12:19	S209	The Intelligent OR: AI in Robotics and Navigation	Patrick C. Hsieh
12:19–12:30		Discussion	

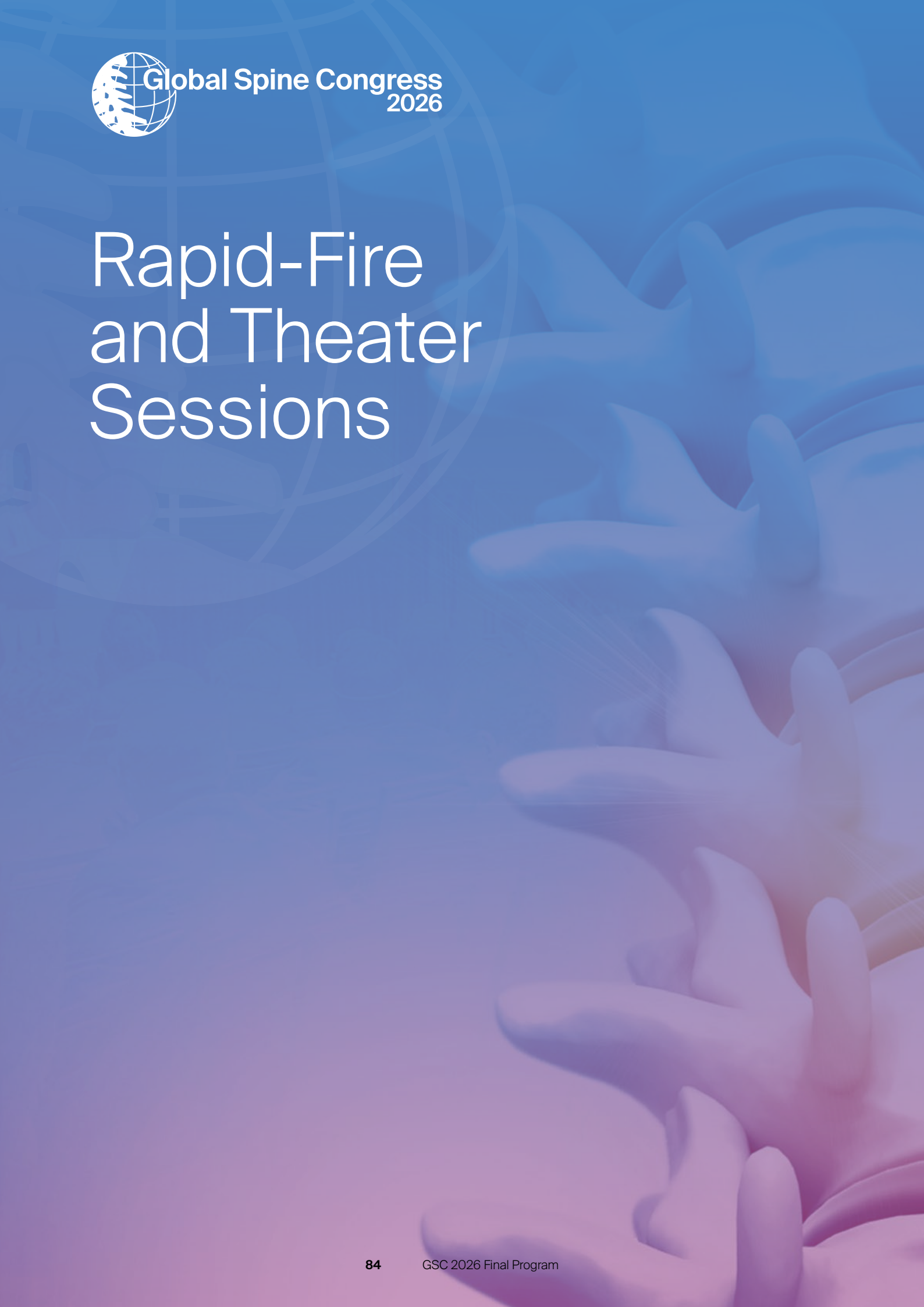
12:30–12:45	Closing Ceremony—Room 1

Location: Room 1

12:45–13:45		Closing Symposium: Novel Technologies to Improve Spine Surgery	Moderators: Patrick C. Hsieh, Hani Mhaidli
12:45–12:50	S216	Welcome remarks	
12:50–13:02	S217	AR and VR in Spine Surgery Planning and Improving Spine Surgical Education	Jean Jacques Abitbol
13:02–13:14	S218	Uniportal and Biportal endoscopy: Is one better than the other, and factors to consider in adopting and advancing endoscopic spine surgery to improve outcomes	Samuel Cho
13:14–13:24	S219	Cost versus value analysis in the evaluation and adoption of new technology in spine surgery across Europe	Pedro Berjano
13:24–13:34	S220	How to leverage new technology to improve spine care without excessive cost?	Juan Emmerich
13:34–13:45		Discussions	

Global Spine Congress 2026

Rapid-Fire and Theater Sessions



Location: Stage A

09:30–10:00	**Surgical Debate: Cases Debate: 2 Level Cervical Spondylosis with Radiculopathy**	**Moderators:** Jean-Jacques Abitbol
09:30–09:37	ACDF is Still the Gold Standard	Norman Chutkan
09:37–09:44	2 Level Arthroplasty is Better	Michael Janssen
09:44–09:51	2 Level-Hybrid is the Best of Both Solutions	Philip Louie
09:51–10:00	Discussion	

Location: Stage A

10:00–11:00		**Rapid-Fire Sessions: Imaging and Novel Technologies**	**Moderators:** Giuseppe Loggia Justin Bird
10:00–10:02	RF001	MRI-Derived Spinal Muscle Metrics as Predictors of Physical Frailty and Functional Impairment in Degenerative Spine Patients	Ali Guven
10:02–10:04	RF002	Comparative Long Term Radiographic and Clinical Outcomes following Isolated Anterior versus Transforaminal Lumbar Interbody Fusion at the L5–S1 Level	James Bianchi
10:04–10:06	RF003	A Machine Learning Algorithm to Predict Change in the Decision-making for Thoracolumbar Fractures Without Neurological Deficit after MRI: A Multicenter Study	Mohamed Ali
10:06–10:08	RF004	Imaging Biomarkers from an Artificial Intelligence (AI) Facilitated Semi-Automated Pipeline May Improve Prognostication of Patients Undergoing Surgery for Degenerative Cervical Myelopathy	Mohammed Ali Alvi
10:08–10:10	RF005	A Generative Model to Synthesize Spine-Only Image from Low-Dose Radiographs for Reliable Spinal Assessment	Qingzhi Xiang
10:10–10:12	RF006	Development of a Spinal Autonomous Radiological Cobb-assessment AI System	Germán Casabó-Vallés
10:12–10:14	RF007	Cervical Pedicle Inlet Screws: A Novel Trajectory for Navigated Sub-Axial Cervical Screw Placement with Improved Biomechanical Characteristics Compared to Lateral Mass Screws	Christopher Martin
10:14–10:16	RF008	Vascular Window in the Surgical Corridor For ALIF L5–S1: A Simplified Classification Proposal	Juan Cárdenas
10:16–10:18	RF009	Intraoperative Contrast-Enhanced Ultrasound Reveals Hyperemia in Central Cord Syndrome and Perfusion Loss in Traumatic Spinal Cord Injury	Roshini Ramkumar
10:18–10:30		Discussion	
10:30–10:32	RF010	Seeing the Unseen: Optical Spectroscopy for Real-Time Spinal Tissue Differentiation in Spinal Endoscopy	Davor Dasic
10:32–10:34	RF011	A handheld articulating robot for uniportal endoscopic spinal surgery: preclinical proof-of-concept in high-fidelity surgical simulation (IDEAL Stage 0)	Francesco Magni
10:34–10:36	RF012	The role of META score as a tool for differentiating vertebralosteoporotic from metastatic fractures	Carlos Fernando Herrero
10:36–10:38	RF013	Deep Learning for Skeletal Maturity Assessment from Sparse Radiographic Data: Comparative Performance of Hand and Spine Models	Joel Turtle
10:38–10:40	RF014	Assessing the Reliability of Large Language Models in Interpreting the Quality of Cervical Spine Patient Education Videos on YouTube	James Bianchi
10:40–10:42	RF015	Spontaneous Spinal CSF Leak Presenting with Isolated Radiculopathy: A Case Report	Ricardo Lage
10:42–10:44	RF016	TMAP Mean Baseline Variability: A Multiple Linear Regression Analysis	Kyle Dann
10:44–10:46	RF017	First report of Chemical Meningitis due to CSF Hypercalcaemia following Antibiotic Calcium Sulphate Beads in a thoracic discectomy for giant calcified disc with intraoperative durotomy.	David Gower
10:46–10:48	RF018	Multilevel Thoracolumbar Canal Stenosis in Spinal Ochronosis: A Case Report and Surgical Considerations.	Laksh Agrawal
10:48–11:00		Discussion	

Location: Stage B

10:00–11:00		Rapid-Fire Sessions: Trauma—Thoracolumbar	Moderators: Maria Andrea Montiel Andrei Joaquim
10:00–10:02	RF019	Retrospective Analysis of Instrumentation Outcomes in Thoracolumbar Traumatic Fractures: Hounsfield Unit as Predictor of Surgical Outcome	Carlo Santaguida
10:02–10:04	RF020	The impact of ageing on locomotor recovery in preclinical models of traumatic spinal cord injury: a systematic review	Oliver Mowforth
10:04–10:06	RF021	Impact of Implant Donation on Time to Surgery in Spine Trauma at a High-Volume Trauma Center in Tanzania	Charlotte Wahle
10:06–10:08	RF022	Impact of Readily Available No-Cost Spine Implants on Surgical Delays after Traumatic Spinal Cord Injury in Tanzania	David Gendelberg
10:08–10:10	RF023	When less is more: outcomes of surgical techniques for fragility vertebral fractures in a retrospective cohort study	André Beco
10:10–10:12	RF024	Clinical and Patient-Reported Outcomes of Sagittal Alignment Status in Surgically Managed Spine Trauma Patients	Mark Lambrechts
10:12–10:14	RF025	Early vs. Late Surgery In Thoracic Spine Fractures: Impact on Clinical Outcomes in Polytrauma Patients	Carlos Fernando Herrero
10:14–10:16	RF026	Results of treatment for thoracolumbar fractures using a short fixation device including the fractured vertebra	Elyes Zoghlami
10:16–10:18	RF027	Functional outcomes between surgical and nonsurgical treatment for neurologically intact patients with thoracolumbar burst fractures as measured by the AO Spine PROST	Said Sadiqi
10:18–10:30		Discussion	
10:30–10:32	RF028	Integrating Radiomics with Clinical Datafor Enhanced Prediction of Vertebral Fracture Risk	Frank Hassel
10:32–10:34	RF029	Adverse events and treatment failure in patients with thoracolumbar burst fractures without neurological deficit: a sub analysis from prospective multicentric study	Gaston Camino-Willhuber
10:34–10:36	RF030	Evaluating the Influence of Surgical Timing and Presence of Concurrent Long-Bone Surgery on Hospitalization Outcomes for Polytraumatized Patients with Thoracolumbar Fractures Undergoing Posterior Spinal Instrumentation: A Comparative Study	Nelo J. Z. Chihal Lima
10:36–10:38	RF031	Risk Factors for Failure in Short Segment Pedicle Instrumentation in Thoracolumbar Fractures	Ana Vilela
10:38–10:40	RF032	Surgical vs. Conservative Management of Thoracolumbar AO Type B Fractures in Ankylosed Spines: A Retrospective Study	Faizan Kareem
10:40–10:42	RF033	Beneficial Effect of Early Balloon Kyphoplasty on Osteoporotic Vertebral Fractures in Elderly Patients	Thomas Repantis
10:42–10:44	RF034	Vertebral Fractures in Chronic Kidney Disease Patients - a Population-Based Cohort Study From TCVGH-OPC Database	Sheng-Chieh Tseng
10:44–10:46	RF035	Fusion Analysis of Short-segment Pedicle Screw Fixation with Transpedicular Bone Grafting for Thoracolumbar Burst Fracture: A Three-year Case Series of 187 Patients	Phuc Diep
10:46–10:48	RF036	Thoracolumbar Osteoporotic Fractures: Retrospective Analysis of Surgically Treated Patients and Correlation Between the AOSpine-DGOU Therapeutic Decision Score and Surgical Strategy	Sara Nunes-Sequeira
10:48–11:00		Discussion	

Location: Stage A

11:00–12:00		Rapid-Fire Sessions: Minimally Invasive Spine Surgery	Moderators: Silva Santiago
11:00–11:02	RF037	Modified Transpedicular Unilateral Biportal Endoscopic Approach for Challenging Ventral Thoracic Cord Lesions	Yong Jin Park
11:02–11:04	RF038	Unilateral Biportal Endoscopy vs. Tubular Microdiscectomy: A Comparative Analysis of Perioperative and Clinical Outcomes for Lumbar Disc Herniation	Atif Ali
11:04–11:06	RF039	Comparing Posterior Lumbar Fusion Surgery Outcomes in Renal Transplant and Dialysis Patients: A National Database Study	Christopher Mikhail
11:08–11:10	RF041	Comparative Analysis of Expandable versus Static Interbody Cages in MIS TLIF: Radiographic and Short-Term Clinical Outcomes	Sasidharan M D S
11:10–11:12	RF042	Unilateral Biportal Endoscopy (UBE) for Various Pathologies Concerning Lumbar Disc Herniation and Spinal Stenosis: Technical Notes and Long-Term Clinical Outcome Overview	Danu Rolian
11:12–11:14	RF043	Risk factor analysis for complications following lateral lumbar interbody fusion surgery	Feng Li
11:14–11:16	RF044	Rapid Instrumental Integrity Determination in Post Operative Spinal Surgery Using Artificial Intelligence	Ankit Mehta
11:16–11:18	RF045	Index Screw : Its Role In Biomechanical Stability For MIS Fixation Of Thoracolumbar Junction Fractures	Mohammed Faizan
11:18–11:30		Discussion	
11:30–11:32	RF046	Insights and Challenges: My First 50 Cases of Endoscopic Lumbar Spine Surgery	Md. Ziaul Hasan
11:32–11:34	RF047	SIJ Pain Referral Does Not Always Predict SIJ Diagnosis	David Polly
11:34–11:36	RF048	Assisted Full-Endoscopic Spine Surgery: A Hybrid Concept Bridging Monoportal and Biportal Techniques with Two-Year Outcomes	Yuka Yamami
11:36–11:38	RF049	In-vitro Investigation and the Effect of Endoscopes on Spinal Epidural Pressure Changes With a Dynamic Irrigation Pump	Metehan Öztürk
11:38–11:40	RF050	Surgical Outcomes of Modified Hybrid MIS TLIF: Enhancing Patient Outcomes and Recovery	Md. Shah Alam
11:40–11:42	RF051	Intraoperative Dynamics of Inflammatory Cytokines in the Lumbar Neuroforamen During Endoscopic Spine Surgery: a preliminary analysis	Enrico Giordan
11:42–11:44	RF052	How to Predict the Culprit Segment in Percutaneous Transforaminal Edoscopic Surgery (PTES) under Local Anesthesia for Surgical Treatment of Lumbar Degenerative Diseases: Radiologic Images or Clinical Symptoms?	YuTong Gu
11:44–11:46	RF053	Full-Endoscopic Versus Tubular-Based Microscopic Decompression for Degenerative Lumbar Canal Stenosis: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Amr El Mohamad
11:46–11:48	RF054	Investigation of the effect of foramen dimension on dorsal root ganglion irritation following transforaminal endoscopic procedures.	Prashanth Rao
11:48–12:00		Discussion	

Location: Stage B

11:00-12:00		Rapid-Fire Sessions: Trauma—Cervical and Other	Moderators: Yan Silva, David Gendelberg
11:00–11:02	RF055	Innovative Use of an Anterior Transdiscal Screw in the Management of Complex Axis Fracture: a Case Report	Jose Otavio Donadeli Tome
11:02–11:04	RF056	Application Of Cervical Endoscopic Unilateral Laminotomy For Bilateral Decompression In The Treatment Of Cervical Stenosis Combined With Acute Traumatic Central Cord Syndrome	Chongwen Wang
11:04–11:06	RF057	AO Spine Delphi Study: Acute C2 Fractures in Elderly Patients (interim results ahead of study completion)	Richard Storey
11:06–11:08	RF058	Stability of occipital condyle avulsion fractures: retrospective cohort study	Ignacio Cirillo
11:08–11:10	RF059	Imaging biomarkers and early surgery are predictive of FIM recovery but not motor outcomes in acute traumatic central cord syndrome patients.	A Aravin Kumar
11:10–11:12	RF060	Prognostic Nutritional Index (PNI) as a Predictor for Survival in Trauma Patients Following Posterior Cervical Fusion (PCF)	Zayaan Tirmizi
11:12–11:14	RF061	Treatment Outcomes Of Anterior C1–C2 Transarticular Screw Fixation Versus Posterior Magerl And Goel-Harms Techniques For Geriatric Odontoid Fractures	Žiga Žigman
11:14–11:16	RF062	Choosing the Approach in Geriatric Odontoid Type II Fractures: Anterior Fixation versus C1–C2 and C1–C2–3 Posterior Techniques	Hidayet Safak Cine
11:16–11:18	RF063	The Neurological Outcomes of Patients with Cervical Spinal Cord Injury Treated by Closed Reduction and Surgical Stabilization: A Retrospective Longitudinal Study.	Silas Batjana Mabitsela
11:18–11:30		Discussion	
11:30–11:32	RF064	Specificity of GFAP and NFL as Biomarkers of Neuronal Injury in Spinal Fracture Patients without Neurological Deficits	Carlos Beredjiklian
11:32–11:34	RF065	UCHL-1 as a Potential Novel Biomarker for Spinal Cord Injury Severity and Evolution	Carlos Beredjiklian
11:34–11:36	RF066	Length of Hospitalization of Patients with Spinal Trauma Caused by Motor Vehicle Accidents – Retrospective Study from a Level 1 Trauma Center	Ivan Tulić
11:36–11:38	RF067	Low-Height Falls Now Drive Major Spinal Injury: An 8-Year Review of COVID-19–Era Changes in Severity, ICU Utilisation, and One-Year Outcomes at a UK Major Trauma Centre	Harry Costello
11:38–11:40	RF068	Return to Work in Patients with Central Cord Syndrome: A Descriptive Observational Study in a Chilean Workers Hospital	Esteban Peña
11:40–11:42	RF069	Impact Of Sacral Slope On Sacral Fracture Morphology: Radiographic And Anatomical Analysis	Emre Yilmaz
11:42–11:44	RF070	Outcomes Following Spinal Cord Injury in Patients with Pre-Existing Diabetes Mellitus: A Comparative Analysis of Type 1 and Type 2 Diabetes	Thomas Olson
11:44–11:46	RF071	The Effect Of Fusion Levels On Clinical Outcomes In Lower Lumbar Vertebral Fractures	Alim Baymurat
11:48–12:00		Discussion	

Location: Stage A

14:30–15:30		Rapid-Fire Sessions: Diagnostics and Epidemiology	Moderators: Stone Sima, Joost Rutges
14:30–14:32	RF073	Mo-fi-disc Scoring System: Towards Understanding the Radiological Tools to Better Delineate the Disease Process and Enhancing Our Solutions for Low Back Pain in Artificial Intelligence Era	Murat Ekşi
14:32–14:34	RF074	Analysis of the correlation between ABO blood type and three bone mineral density measurements in patients with lumbar degenerative diseases	Youwei Ai
14:34–14:36	RF075	Deep learning–based spinal cord MRI enables accurate screening and classification of degenerative cervical myelopathy	Aditya Vedantam
14:36–14:38	RF076	Preliminary Results of the Prospective SCREEN-DCM Trial: Analysis of the Geneva Cohort	Aria Nouri
14:38–14:40	RF077	Transabdominal Motor Evoked Potentials as a Robust Adjunct to Transcranial Monitoring in Lumbar Spine Surgery: Superior Performance in Patients with Brain Pathology.	Robert Ravinsky
14:40–14:42	RF078	Comparison Of Intra-Articular Facet Injections For Patients With Lower Back Pain Using Platelet-Rich Plasma (PRP) Or Local Anaesthetic And Corticosteroid Combination: A Prospective Study	Nicola-Marie Van Der Linden
14:42–14:44	RF079	Are We Really Reducing Radiation Exposure in Spine Surgery? A Systematic Review and Meta-Analysis of the Past Decade and What That Means for the Future	Kento Yamanouchi
14:44–14:46	RF080	Changes in Opioid Prescribing Patterns in Opioid Naïve Patients can Translate to Improved Outcomes in the Opioid Non-Naïve Patients with Anterior Cervical Surgery: A Michigan Spine Surgery Improvement Collaborative (MSSIC) Study	Anisse Chaker
14:46–14:48	RF081	Can Artificial Intelligence Mitigate Missed Diagnoses by Generating Differential Diagnoses for Neurosurgeons?	Vijay Sivan
14:48–15:00		Discussion	
15:00–15:02	RF082	National trends in the surgical management of lumbar facet cysts: A national database study	Raj Gala
15:02–15:04	RF083	The Current State of Spine Disease Literature in Sub-Saharan Africa — A Scoping Review	David Gendelberg
15:04–15:06	RF084	Association Between Body Roundness Index and the Prevalence of Diffuse Idiopathic Skeletal Hyperostosis: The Bunkyo Health Study.	Yuta Sugawara
15:06–15:08	RF085	Routine or Required? Reassessing Cervical CT Use in Elderly Head Trauma – a Retrospective Analysis from a German Level I Trauma Center	Josina Straub
15:08–15:10	RF086	From Updated to Modified Roussouly Classification: A Multicenter Normative Study of Sagittal Spinopelvic Profiles in 525 Turkish Adults	Halil Gok
15:10–15:12	RF087	Incidence and Trends of New-Onset Spinal Fractures Among Patients With Sickle Cell Hemoglobinopathies: A National Database Analysis	Kashif Qureshi
15:12–15:14	RF088	Impact of Preoperative Nutritional Status on Postoperative Recovery in Patients Undergoing Spinal Tumor Surgery	Affes Ameur
15:14–15:16	RF089	Association Between Socioeconomic Indices and Baseline SRS-22r Scores in the General Adult Population: A Crowdsourced Evaluation	Kento Yamanouchi
15:16–15:18	RF090	Baseline depression and anxiety are associated with increased neck disability after anterior cervical surgery	Aiyush Bansal
15:18–15:30		Discussion	

Location: Stage B

14:30–15:30		Rapid-Fire Sessions: Infections and Cervical Degeneration	Moderators: Waeel Hamouda Paris Christogeorgos
14:30–14:32	RF091	Lateral Mass Anchor Screws with Suspensory Titanium Cable in Cervical Laminoplasty: A Novel Technique to Prevent Lamina Re-closure	Shichang Zhao
14:32–14:34	RF092	C2–C3 Vertebral Arch Impingement is a Key Predictor of Axial Pain and Kyphosis After Posterior Cervical Laminoplasty: A Retrospective Cohort Study	Shichang Zhao
14:34–14:36	RF093	Clinical Efficacy of Laminoplasty for Cervical Ossification of the Posterior Longitudinal Ligament in Patients with Dynamic K-Line Positivity	Haijun Tian
14:36–14:38	RF094	Surgical Treatment of Hirayama disease in the Paediatric Population – a Systemic review and Recommendation	Jiawen Fong
14:38–14:40	RF095	Value-Based Assessment of Single-Level Lateral Lumbar Interbody Fusions: A Pilot Study of the Prone vs Lateral Decubitus Position	Philip Louie
14:40–14:42	RF096	Significant risk of surgical site infection with clindamycin prophylaxis in adolescent idiopathic scoliosis surgery: a retrospective cohort analysis of 344 patients	Giovanni Viroli
14:42–14:44	RF097	Can we Quantify the Quality of Life Gains and Cost-Effectiveness at 5 Years After Surgery for CSM? A QOD SpineCORe Study	Vardhaan Ambati
14:44–14:46	RF098	Does Surgery Reduce Neck Pain and Restore Independence 5 Years After Surgery for Cervical spondylotic myelopathy (CSM)? A SpineCORe QOD Study.	Vardhaan Ambati
14:46–14:48	RF099	Prevention Of Surgical Site Infections in Spine Surgery: A Literature Review and Creation of An Institutional Protocol.	Jose Dangond
14:48–15:00		Discussion	
15:00–15:02	RF100	Open Versus Minimally Invasive Surgical Techniques for the Treatment of Spondylodiscitis: A Systematic Review and Meta-Analysis	Jose Otavio Donadeli Tome
15:02–15:04	RF101	Mapping gut microbiota and metabolite alterations in patients with postmenopausal osteoporosis in the Beijing Community of China	Xiaolong Chen
15:04–15:06	RF102	Modified Frailty Index as a Predictor of Postoperative Complications in Surgery for Pyogenic Vertebral Infections	Guillermo Ricciardi
15:06–15:08	RF103	Diagnostic Accuracy Of QuantiFERON-TB Gold In-Tube Assay And Mucosal-Associated Invariant T Cells For Diagnosing Tuberculous Spondylodiscitis	Korawish Mekariya
15:08–15:10	RF104	Management Strategies in Pediatric Spine Tuberculosis - A Retrospective longterm Analysis of 108 Children of Koch's Spine	Sudhir Srivastava
15:10–15:12	RF105	Efficacy of Minimally Invasive Surgery for Adult Congenital Muscular Torticollis: A Real-World Retrospective Study	Haolin Sun
15:12–15:14	RF106	Selection of Treatment Strategies in Brucella Spondylitis: ARetrospective Clinical Study	Ismail Kaya
15:14–15:16	RF107	Analysis of Factors Associated with Prolonged Infection in Pyogenic Spondylitis Using the AO Classification	Takuya Iimura
15:16–15:18	RF108	Evaluation of the Cervical Spine Microbiome Using Culture and Metagenomic Sequencing	Philip Paschal
15:18–15:30		Discussion	

Location: Stage A

15:30–16:00	**Surgical Debate: Case Debate by AO Knowledge Forum Degenerative: Lumbar Disc Herniation with Radiculopathy**	**Moderator:** Patrick C. Hsieh
15:30–15:37	Microdiscectomy remains the best and most consistent surgery	Gianluca Vadalà
15:37–15:44	Uniportal endoscopy is the ideal MIS and best for outcomes	Jin-Sung (Luke) Kim
15:44–15:51	Why Biportal Endoscopy is Superior to Microdiscectomy and Uniportal Endoscopy	Samuel Cho
15:51–16:00	Discussion	

Location: Stage A

16:00–17:00		Rapid-Fire Sessions: Precision spine surgery	Moderators: Rafael De La Garza Ramos Carlo Santaguida
16:00–16:02	RF109	Can We Stay Gold? Return-To-Play After Spinal Surgery In Athletes	Mitchell Hansen
16:02–16:04	RF110	In Adolescent Idiopathic Scoliosis, to what extent do bending x-rays modify the extent of the fusion?	Daniel Oñate Martínez-Olascoaga
16:04–16:06	RF111	Incidence and risk factors of revision surgery with acute proximal junctional failure after anterior column realignment for adult spinal deformity	Jin-Sung Park
16:06–16:08	RF112	Muscle Matters: Goutallier Grade as a Predictor of Postoperative Risk in Complex Spine Surgery at a Single Center	Arnav Gambhir
16:08–16:10	RF113	Hybrid Junctional Rod (HJR™): A Novel Technique for Preventing Proximal Junctional Kyphosis in Spinal Deformity Surgery—Clinical and Biomechanical Outcomes from a 15–Patient Series	Ercan Bal
16:10–16:12	RF114	Role of Paraspinal Muscle Fatty Infiltration and Relative Cross-Sectional Area in Predicting Adjacent Segment Disease After Lumbar Spinal Fusion: A Systematic Review and Meta-Analysis	Max Meng-Huang Wu
16:12–16:14	RF115	The large change between the sitting and standing positions in the C2 to upper instrument vertebra plumb line distance is a risk factor for proximal junctional failure and revision surgery in adult spinal deformity surgery	Go Yoshida
16:14–16:16	RF116	Establishing the Timeline for Pelvic Tilt Stabilization After Adult Spinal Deformity Surgery	Brian Neuman
16:16–16:18	RF117	Anterior column reconstruction after double corpectomy in thoracolumbar fractures, an analysis of 42 consecutive patients	Hany Gendy
16:20–16:32		Discussion	
16:32–16:34	RF119	Region-Specific Effects of Osteoporosis Treatments and Implications for Patient Optimization for Spine Surgery	Zayaan Tirmizi
16:34–16:36	RF120	Preoperative Handgrip Strength Predicts Physical Function Recovery After Surgery for Lumbar Spinal Stenosis: A Prospective Cohort	Berkay Paker
16:36–16:38	RF121	Navigated Percutaneous Fracture Fixation With or Without Cement Augmentation in High-Risk Patients with Vertebral Fractures Unsuitable for Conventional Surgery.	Shrey Binyala
16:38–16:40	RF122	Posterior treatment of ankylosing spinal diseases with thoracolumbar fractures: A Network Meta-Analysis.	Sachin Sharma
16:42–16:44	RF124	Risk Factors for Poor Functional Outcomes After Surgical Treatment of Thoracolumbar Junction Fractures	Raboudi Hamza
16:44–16:46	RF125	Electrochemotherapy In Aggressive Hemangioma Of The Spine: A Case-Series And Narrative Literature Review	Giuseppe Tedesco
16:46–16:48	RF126	Rare Presentation of a Giant Paraspinal Chondrosarcoma Arising from the Costovertebral Junction: Case Report and Review of Literature	Selvin Vijayan
16:48–17:00		Discussion	

Location: Stage B

16:00–17:00		Rapid-Fire Sessions: Degenerative—Lumbar	Moderators: Prabodh Kantiwal Teija Lund
16:00–16:02	RF127	Does Surgery Improve Sleep Disturbance in Patients With Grade II Lumbar Spondylolisthesis? Insights From the Quality Outcomes Database SpineCORe Study Group	Jay Kumar
16:02–16:04	RF128	Cage Overhang Ratio and Increased Radiographic Subsidence in Stand-Alone Lateral Lumbar Interbody Fusion	Joseph Hudson
16:04–16:06	RF129	Alignment Factors Associated with the Need for Revision Extension Surgery to the Sacrum After Previous Lumbar Spinal Fusion.	Eren Kuris
16:06–16:08	RF130	Can Preoperative Duration of Symptoms Effect the Clinical and Functional Outcomes After Lumbar Microdiscectomy? Randomized Clinical Trial with Five Years Follow Up	Sherwan Hamawandi
16:08–16:10	RF131	Clinical and Radiographic Comparison Between Stand-Alone ALIF vs ALIF 360° at L5–S1: Case Series With 6-Month Follow-Up	Marco Gonzalez-Gomez
16:10–16:12	RF132	Exploring the Influence Factors of Pelvic Tilt Restoration after Surgical Treatment of Lumbar Degenerative Diseases: Value of Preoperative Standing-Sitting Radiograph	Siyu Zhou
16:12–16:14	RF133	Lateral Lumbar Interbody Fusion (LLIF) Both with and without Posterior Pedicle Screw Instrumentation Improves Back Pain in Patients with Degenerative Disc Disease Early in the Post-operative Period	Lauren Barber
16:14–16:16	RF134	From Hydration Loss to Structural Change: Disc Signal Intensity as a Marker of Degeneration	Lukas Schönnagel
16:16–16:18	RF135	Effect of solid fusion vs. pseudoarthrosis on development of adjacent segment degeneration after posterior lumbar interbody fusion	Jun-Young Choi
16:18–16:30		Discussion	
16:30–16:32	RF136	Incidence and risk factors of adjacent segment degeneration in lumbosacral or lumbo-iliac fusion with L2 as the uppermost instrumented vertebra	Chun-Po Yen
16:32–16:34	RF137	Amyloid Deposition in the Ligamentum Flavum causes spinal lumbar stenosis with specific disc height conservation	Karel Willems
16:34–16:36	RF138	A Comparison of Patient Reported Outcomes in Interlaminar Versus Sublaminar Lumbar Decompression: A Retrospective Cohort from a Level I US Trauma Center	Ali Mehaidli
16:40–16:42	RF141	Morbi-mortality of left anterior retroperitoneal disc reconstruction surgery for 3 or 4 levels versus 1 or 2 levels: retrospective “case-control” analysis of a prospective cohort of 376 patients.	Jean-Charles Aurégan
16:42–16:44	RF142	Successful Execution of Preoperative Lumbar Alignment Planning: Reliability of the L5–S1 Anterior Lumbar Interbody Fusion.	Eren Kuris
16:44–16:46	RF143	P-15 Peptide Enhanced Bone Graft Demonstrates Fusion Superiority Over Autograft Across All Follow-Ups in TLIF: 6–, 12–, And 24–Month Evidence From A Multicenter RCT	Paul Arnold
16:46–16:48	RF144	The Quadratus Lumborum in Chronic Low Back Pain	Leo Lemminger
16:48–17:00		Discussion	

Location: Theater

10:30–11:00	Knowledge Forums: Origins and Innovations	Moderator: Jeff Wang Jean Jacques Abitbol
10:30–10:34	Spine World Before KF	Jean-Jacques Abitbol
10:34–10:44	Impact of KF on the Spine World	Klaus Schnake
10:44–10:59	Why I Created the KF	Luiz Vialle

Location: Theater

11:00–12:00	A Global Approach to Improving Diversity for Spine Surgeons	Moderators: Hani Mhaidli Serena Hu
11:00–11:05	Benefits to diversity: why it matters	Riccardo Cecchinato
11:05–11:15	Mentorship: how to find a good mentor, and be a good mentee	Emily Mills
11:15–11:20	Allyship: what does it mean, and how to become an ally	Jean-Jacques Abitbol
11:20–11:28	Navigating AO: how to get involved, pathways to leadership	Zorica Buser
11:28–11:36	Alignment of surgeon and patient characteristics and its impact on patient outcomes	Raphaële Charest-Morin
11:36–11:44	How to Measure it, How to Reduce it, need develop indicators to improve equality plans	Hani Mhaidli
11:44–12:00	Discussion	

Location: Theater

13:30–14:30	Symposium hosted by the Saudi Spine Society (SSS): Spine Trauma Update	Moderator:
13:30–13:45	Effectiveness and Safety of Endovascular Therapy in Patients with Traumatic Vertebral Artery Injury	Omar Alsultan
13:45–13:50	Q&A	
13:50–14:05	Comparison of the Accuracy of Marker Screw–Assisted Pedicle Screw Placement	Mohammed Khashab
14:05–14:10	Q&A	
14:10–14:25	Tips and Tricks for Osteoporosis Instrumentation	Waleed Awwad
14:25–14:30	Q&A	
10:35–10:44	Audience Q&A	
10:44–10:45	Closing Remarks	

Location: Theater

16:00–17:00	**GSJ—Live from Istanbul: Return to Play After Spine Surgery in High Performance Athletes**	**Moderators:** Jeffrey C. Wang Jens Chapman Karsten Wiechert Basem Ishak Ahmet Alanay
16:00–16:15	Return to Play, Performance, and Earnings Analysis After Lumbar Disc Herniation in National Hockey League Players.	Pavlina Lenga
16:15–16:30	Is Golf a Contact Sport? Protection of the Spine and Return to Play After Lumbar Surgery.	Luke Jouppi
16:30–16:45	The Incidence of Pars Interarticularis Defects in Athletes.	Arnav Gambir
16:45–17:00	Predictive Factors for the Outcome of Surgical Treatment of Lumbar Spondylolysis in Young Sporting Individuals.	Matteo Traversari

Location: Theater

17:00–18:00	**Surgical management of difficult thoracic disc herniation and other problems**	**Moderator:** John Liu
17:00–17:15	Anterior thoracic approach is the safest	Yong Hai
17:15–17:30	Posterior thoracic is the only way to go	Raymond Hah
17:30–17:45	Endoscopic is the future for thoracic disc	Christoph Hofstetter
17:45–18:00	Discussion	

Location: Stage A

09:00–10:00		Rapid-Fire Sessions: Novel Technologies	Moderators: Sompoom Sunpaweravong Luiz Vialle
09:00–09:02	RF145	Development of an Endoscopic Surgery Management Application with Direct Real-Time Imaging through VR Glasses	Rodrigo Gregório Garcia Vargas
09:02–09:04	RF146	Epidural Spinal Cord Stimulation for Restoration of Cardiovascular and Respiratory Function in Chronic Spinal Cord Injury: A Systematic Review	Arash Ghaffari-Rafi
09:04–09:06	RF147	Natural Language Processing of Pre-Operative Clinical Notes Predicts 30-Day Readmission After Lumbar Fusion: A MIMIC-IV Database Study	Kashif Qureshi
09:06–09:08	RF148	An AI algorithm to improve access to consultations for lumbar pathology	Guillaume Lonjon
09:08–09:10	RF149	A Signal Transducing Covalently Bound Peptide Coating for Titanium Spine Implants	Joseph Hudson
09:10–09:12	RF150	A Quality Improvement Project Assessing the Quality of Metastatic Spinal Cord Compression (MSCC) Referrals from Peripheral Sites to the Royal Orthopaedic Hospital against NICE Guidance	Shams Ali Baig
09:12–09:14	RF151	PTP for L4L5 retrospective case series	Igor Barreira
09:14–09:16	RF152	Beyond PROMs: Smartphone-Derived Walking Tests as Objective Markers of Recovery After Spine Surgery	Jani Puhakka
09:16–09:18	RF153	Semi-Automated End-to-End Quality Control System for Annotation Data Based on Automated Cobb Angle Measurement	Jingxi Su
09:18–09:30		Discussion	
09:18–09:20	RF154	Defining the Gaps in Transitional Care for Pediatric Spine Patients into Adulthood	Jesse Shen
09:20–09:22	RF155	Role of Artificial intelligence (AI) Tools for Clinical Research in Spine Surgery: How Accurate and Reliable Are These?	Riaz Mohammed
09:22–09:24	RF156	Research on Optimal Temperature Control in Robotic Autonomous Laminectomy	Zhuofu Li
09:26–09:28	RF158	The Effect of L4 Tilt on In-Brace Correction in Adolescents with Idiopathic Scoliosis Treated with the Rigo System Chêneau Brace	Hüseyin Sina Coşkun
09:28–09:30	RF159	Remote supervision in microscope-assisted surgery—A clinical implementation and non-inferiority study	Mohammed Al Habib
09:30–09:32	RF160	Intramedullary Lesion Length Is A Robust Imaging Biomarker In Predicting Presenting Motor And Functional Scores Amongst Acute Traumatic Central Cord Syndrome Patients.	A Aravin Kumar
09:32–09:34	RF161	The Spine in High Definition: Continuous Monitoring as the Gateway to AI in Spinal Surgery	Grzegorz Miekisiak
09:46–09:48	RF162	Mentorship metrics: Spine insights from AO Access (2022–2025)	Waeel Hamouda
09:48–10:00		Discussion	

Location: Stage B

09:00–10:00		Rapid-Fire Sessions: Deformity—Adolescent	Moderators: Osama Aldahamsheh Victor Martin-Gorgojo
09:00–09:02	RF163	Pedicle Screw Distribution in Lenke Type 1 Adolescent Idiopathic Scoliosis: Does It Influence Coronal and Sagittal Parameters?	Sergio De Salvatore
09:02–09:04	RF164	Effect of Pedicle Morphology on Screw Placement Method in Adolescent Idiopathic Scoliosis Surgery	Murat Songur
09:04–09:06	RF165	Risk Factors for Postoperative Shoulder Imbalance in Patients With Lenke Type 1 and 2 Scoliosis Treated Using the Vertebral Coplanar Alignment Technique	Arihisa Shimura
09:06–09:08	RF166	Selective Instrumentation Techniques for Pediatric Scoliosis: A Retrospective Case Series.	Jorge Parra
09:08–09:10	RF167	Transpedicular screw placement assisted by Augmented Reality Surgical Navigation (ARSN) in congenital scoliosis surgery.	Patricia Estrella
09:10–09:12	RF168	Can the LIV Be Left Proximal to the Neutral Vertebra in Lenke Type 1–3 B/C Curves?	Hayati Aygun
09:12–09:14	RF169	Pioneering Apical Control in Early Onset Scoliosis: Innovations with the Active Apex Correction (APC) Technique	Uzair Rashid
09:14–09:16	RF170	Scoliosis Surgery and Neurophysiological Alarms: A 4-Year Review at a High-Complexity Pediatric Center	Karen Weissmann
09:16–09:18	RF171	Short Term Outcomes of Active Apex Correction Technique in Severe Early Onset Scoliosis	Abdullah Shah
09:18–09:30		Discussion	
09:30–09:32	RF172	Effect of Halo Gravity Traction on Deformity Angular Ratio in Severe Rigid Scoliosis: a Clinical Analysis with Intraoperative Neuromonitoring Risk Correlation	Ahmed Nenaa
09:32–09:34	RF173	Behaviour Of Thoracic Curvatures After Pectus Excavatum And Carinatum Surgery: A Retrospective Analysis	Selahaddin Aydemir
09:34–09:36	RF174	Characterization of Changing Pelvic Incidence in Pediatric Patients: Changes in the Bony PelvisDrive Alterations in Pelvic Incidence	Joel Turtle
09:36–09:38	RF175	Evaluating the Efficacy and Safety of Halo-Femoral Traction and Halo-Gravity Traction Techniques in Severe Kyphoscoliosis With Spinal Cord Risk Classification (SCRC) Type 3 Over the Apex	Yuan-Shun Lo
09:38–09:40	RF176	Is the Use of 'Shoulder Rule' for Selection of Upper Instrumented Vertebra (UIV) in Adolescent Idiopathic Scoliosis Associated with Improved Shoulder Parameters and Outcomes?	Andrius Anuzis
09:40–09:42	RF177	Free-Hand Pedicle Screw Placement Accuracy with 3D MPR CT Planning in Severe Scoliosis	Kadir Abul
09:42–09:44	RF178	Patient-Specific Rods and Sublaminar Bands in Scoliosis: Analysis of Thoracic Kyphosis Correction	Alberto Balagna
09:44–09:46	RF179	Management of severe and rigid adolescent idiopathic scoliosis (> 120°) with modified Halo Pelvic Traction(HPT) and single stage posterior only surgical correction	Muhammad Faheem
09:46–09:48	RF180	The Surgical Outcomes And The Curvature Correction Between All Pedicle Screws Fusion vs Hybrid Hook-Screw Among Patients With Idiopathic Scoliosis	Musab Alageel
09:48–10:00		Discussion	

Location: Stage A

10:00–10:30	**Surgical Debate: Case Debate: Thoracolumbar Burst Fracture (AO A4) Without Neuro Deficits or PLC Injury**	**Moderator:** Norman Chutkan
10:00–10:07	Non-operative Treatment is Safe and Effective	Mohammad El-Sharkawi
10:07–10:14	Short Segment Fusion Provides Long-Term Improvement in Pain And Reduces the Risk of Kyphosis	Hani Mhaidli
10:14–10:21	Percutaneous Fixation Improves Pain and Sagittal Alignment without Fusion	John France
10:21–10:30	Discussion	

Location: Stage A

10:30–11:30		Rapid-Fire Sessions: MISS and Novel Technologies	Moderators: Jana Felicitas Schader, Muhammed Assous
10:30–10:32	RF181	Technical Feasibility and Early Outcomes of Minimally Invasive TLIF (MIS-TLIF) with Large-Footprint Cage via Tubular Approach: A Novel Surgical Technique.	Ayush Sharma
10:32–10:34	RF182	The Impact of "Keyhole" When Discussing Spine Surgery—A Deep Dive Into Patient's Perception of Minimally Invasive Spine Surgery	Joel Yeh Siang Chen
10:34–10:36	RF183	The Efficacy and Safety of Thermosensitive Poloxamer-Based Thermosensitive Material as an Anti-Adhesive Agent in Full Endoscopic Spine Surgery: a Preliminary Study	Vit Kotheeranurak
10:36–10:38	RF184	New Ipsilateral Full Endoscopic Interlaminar Approach for L5–S1 Foraminal and Extraforaminal Decompression: Technique Description and Initial Case Series	Marcos Vaz De Lima
10:38–10:40	RF185	Risk Factors of Incomplete Clinical Improvement Following Microscopic and Endoscopic Lumbar Discectomy: An Analysis of 1-year Follow-up Prospective Data	Win Boonsirikamchai
10:40–10:42	RF186	Classifying Invasiveness of Degenerative Lumbar spinal procedures using the Minimally Invasive Spine Surgery Invasiveness Classification "MISS-INC"	Roger Härtl
10:42–10:44	RF187	Complications in Minimally Invasive Spine Surgery (2013–2024): A Proportional Meta-Analysis Series for Thoracic Spine—Tubular, Uniportal, and Biportal Endoscopic Spine Surgery	Ibrahim Hussain
10:44–10:46	RF188	Comparing the Perioperative and Postoperative Outcomes of Interlaminar and Transforaminal Endoscopic Lumbar Facet Cyst Removal: A Systematic Review and Meta-analysis	You Qian Lin
10:46–10:48	RF189	C1 Lateral Mass–C2 Body (LM-B) Screw: A Cadaveric Anatomical Study of a Novel Posterior Trajectory	Yunus Emre Batman
10:48–11:00		Discussion	
11:00–11:02	RF190	Training Platform for Endoscopic Spine Surgery with Artificial Intelligence and Augmented Reality: Innovation to Overcome the Learning Curve	Marcos Vaz De Lima
11:02–11:04	RF191	A Prompt Engineered Large Language Model Assistant for Spine Patient History Taking: A Two-Phase Study	Begüm Aslantaş Kaplan
11:04–11:06	RF192	3D Porous Titanium Intravertebral Microspheres for the treatment of Vertebral Compression fractures: Analysis of clinical efficacy and safety profile	Giuseppe Barbagallo
11:06–11:08	RF193	Quantifying Ergonomics with Dynamic Motion Sensors in Lumbar Decompression Surgeries	Philip Louie
11:08–11:10	RF194	Utilisation Of Voice-Based Generative AI for Spine Health Screening: Findings from Two Pilot Deployments in India	Sughandh Kaparthi
11:10–11:12	RF195	Full Interlaminar Endoscopic Decompression for Bertolotti Syndrome—A Promising Shift in Managing Lumbosacral Transitional Vertebra-Associated Nerve Root Compression	Siddharth Yadav
11:12–11:14	RF196	From Episodic Snapshots to Continuous Intelligence: How the Open Spine Alliance (≡) Transforms Patient Engagement into Predictive Power	Grzegorz Miekisiak
11:14–11:16	RF197	ReActiv8 Restorative Neurostimulation: Five-Year Multicentre and Early Institutional Outcomes in Chronic Low Back Pain from Multifidus Dysfunction	Rez Rahim
11:16–11:18	RF198	Novel Ultrasonic Osteotome Device in Uniportal Endoscopic Lumbar Interbody Fusion: Technical Notes and Early Outcomes	Xian Jun Ngoh
11:18–11:30		Discussion	

Location: Stage B

10:30–11:30		**Rapid-Fire Sessions: Cervical—Degenerative and Deformity**	**Moderators:** Deya AlWady, Mohammad El Sharkawi
10:30–10:32	RF199	Relationship between Baseline Global Sagittal Alignment and Cervical Alignment Changes Following Lumbar Pedicle Subtraction Osteotomy	Bruno Verna
10:32–10:34	RF200	Using Tranexamic Acid in Scoliosis Surgery to Reduce Blood Supply a Systematic Review of Worldwide Data	Raed Mohammedamin Sharaf
10:34–10:36	RF201	Efficacy and Safety of Atlantoaxial and Occipitocervical Fusion using Construct with Block Corticomedullary Iliac Autograft and Compression Sutures	Korawish Mekariya
10:36–10:38	RF202	The Impact of Vertebral Fractures in Patients with Dropped Head Syndrome: Analysis of Global Spinal Alignment in 103 Cases	Soji Tani
10:38–10:40	RF203	Relationship Between Preoperative Lumbar Muscle Composition and Cervical Alignment Changes Following Lumbar Pedicle Subtraction Osteotomy	Bruno Verna
10:40–10:42	RF204	Is Fixation Procedure Necessary in Posterior Approach Surgery for Cervical Stenosis with Non-Severe Kyphosis?	Hongyu Chen
10:44–10:46	RF206	Efficacy of Combined Anterior and Posterior Corrective Surgery for Dropped Head Syndrome Using a Unilateral Anterior Cage Screw Fixation	Soji Tani
10:46–10:48	RF207	Pathology Type and Outcome in Patients Who Had Post-Flip Neuromonitoring Change: Impact of Head Holder Type	Danielle Niento
10:48–11:00		Discussion	
11:00–11:02	RF208	How do Zero-Profile Devices with Integrated Screw Fixation Compare with Traditional ACDF/plating? Single- and Multilevel Anterior Cervical Discectomy and Fusion: A Review of 369 Patients Across 930 Levels.	Burak Ozgur
11:02–11:04	RF209	The Impact of Anterior Cervical Spine Surgery on Objective Fluoroscopic Swallowing Kinematics	Eric Klineberg
11:04–11:06	RF210	What is the optimal strategy for C3 in open-door laminoplasty: laminectomy or laminoplasty? -A systemic review and meta-analysis	Ping-Yeh Chiu
11:06–11:08	RF211	Comparison of Rigid and Non-Rigid Interbody Fusion Device for Cervical Degenerative Disc Disease in Adults—A Randomized, Prospective, Multicenter Clinical Trial	Ting-Li Shen
11:08–11:10	RF212	Evaluating the Impact of Single or Two-Level Anterior Cervical Surgery on Extensor Neck Muscle Volume in Patients Presenting with Degenerative Pathology	Sydney Pattison
11:10–11:12	RF213	Stand-alone Expandable Cage for Anterior Cervical Corpectomy: Long-term Follow-up	Ahmed Shawky Abdelgawaad
11:12–11:14	RF214	Investigating the Relationship Between Low Density Lipoprotein Cholesterol and Cervical Spinal Fusion Outcomes Amongst Statin Users: A Propensity-Matched Analysis	Kyle Stump
11:14–11:16	RF215	Preoperative Cervical Canal Narrowing as a Predictor for Subsequent Posterior Cervical Decompression and Fusion Following Anterior Cervical Discectomy and Fusion	Sertac Kirnaz
11:16–11:18	RF216	Integrating RCT and Cohort Design—The Future of Large-Scale Spine Surgery Research	Nádia Simões De Souza
11:18–11:30		Discussion	

Location: Stage A

11:30–12:30		**Rapid-Fire Sessions: Surgical Complications**	**Moderators:** Raj Sakhrekar, Cristiano Menezes
11:30–11:32	RF217	C5 Nerve Root Palsy After Posterior Cervical Spine Surgery	Oğuz Alp Çakir
11:32–11:34	RF218	Preoperative Anemia Severity Predicts Complications Following Lumbar Decompression and Fusion	Vivian Chen
11:36–11:38	RF220	Analysis of the indications and the surgical approaches for reconstruction of the anterior spinal column in the lumbar and the thoracic spine. Case series of patients operated in 2 years period with a minimum of 2 years postoperative follow-up	Hani Gendy
11:38–11:40	RF221	Determining clinically excessive blood loss in surgery for severe congenital spinal deformity	Di Liu
11:40–11:42	RF222	Abdominal Aortic Calcification as a Risk Factor for Complications and Hospital Readmissions in Thoracolumbar Spine Surgery: A Retrospective Cohort Analysis	Juan Ignacio Perez Abdala
11:42–11:44	RF223	Assessment of Lumbar Spine Mobility After Arthrodesis	Elyes Zoghlami
11:44–11:46	RF224	Incidental Dural Tears in Elective Spine Surgery: A Prospective Evaluation of Risk Factors and Outcomes	Abdus Salam
11:46–11:48	RF225	Lumbar Foraminal Morphology Can Affect Outcomes of Indirect Decompression: A Systematic Review and Novel Classification	Mohamad Bakhaidar
11:48–12:00		Discussion	
12:00–12:02	RF226	Paraspinal Muscle Endurance and Morphology (PMEM) Score: A New Method for Prediction of Postoperative Mechanical Complications After Lumbar Fusion.	Gengyu Han
12:02–12:04	RF227	Extended Oral Antibiotic Prophylaxis After Lumbar Decompression And Fusion Is Associated With Increased Infection and Sepsis Rates	Vivian Chen
12:04–12:06	RF228	Duration of Subfascial Drainage and the Risk of CSF Leak and Infection Following Durotomy: A Retrospective Cohort Study	Carlo Santaguida
12:06–12:08	RF229	Failure Modes of Dural Repair Devices: A Five-Year Analysis of the FDA MAUDE Database for Dural Sealants and Grafts	Mauricio Avila
12:08–12:10	RF230	The Impact of Body Mass Index Stratification on Perioperative Complications in Open, Tubular, and Endoscopic Lumbar Microdiscectomy	Mark Lambrechts
12:10–12:12	RF231	Cement Augmentation of Pedicle Screw Fixation for Metastatic Spine Disease: A Systematic Review of Clinical Outcomes and Complications	Josh Garofalo
12:12–12:14	RF232	Establishing maximal outcome improvement threshold for SRS-22r in patients with severe spinal deformity: An anchor-based analysis with a minimum of 2-year follow-up	Di Liu
12:14–12:16	RF233	Sacral fracture: a not so rare subtype of distal junctional failure.	Ilaria Barni
12:16–12:18	RF234	Efficacy, Safety, and Reliability of Surgery on the Lumbar Spine Under General Versus Spinal Anaesthesia: Analysis of 84 Cases	Sharif Jonayed
12:18–12:30		Discussion	

Location: Stage B

11:30–12:30		Rapid–Fire Sessions: Deformity—Adult	Moderators: Zeeshan Sardar Jason Pittman
11:30–11:32	RF235	Examining the Outcomes of Multilevel Thoracolumbar Instrumented Fusion Constructs with Concomitant Sacroiliac Joint Fusion using S2–Alar-Iliac Screws: A Systematic Review	Tensae Assefa
11:32–11:34	RF236	Comparison of Posterior Trans-intervertebral Osteotomy and Pedicle Subtraction Osteotomy for the Correction of Thoracolumbar Kyphotic Deformity Secondary to Ankylosing Spondylitis	Honghao Yang
11:34–11:36	RF237	Clinical and Radiological Outcomes of Transverse Process Hooks Versus Pedicle Screws at the Upper Instrumented Vertebra in Adult Spinal Deformity Patients Undergoing Three-Column Osteotomy: A Retrospective Comparative Study	Mohsen Rostami
11:36–11:38	RF238	Regional Contributions to Thoracic Flexibility: Implications for Proximal Junctional Complications Lower Thoracic to Pelvic Fusion in Adult Spinal Deformity	Andrea Pezzi
11:38–11:40	RF239	Rod Fracture after Lateral Lumbar Interbody Fusion in Adult Spinal Deformity: Incidence, Risk Factors, and Prevention with a Minimum 5 Years of Follow-up	Hong-sik Park
11:40–11:42	RF240	Compensatory Changes of the Thoracic Spine Among Patients with T1 Slope More than 40°: 5–Year Outcomes After Spinopelvic Fusion	Josiah Paolo Mutia
11:42–11:44	RF241	Measuring Spinopelvic Parameters in Patients with 6 Lumbar Vertebrae: A Matched Cohort Comparison of Asymptomatic Volunteers	Fred Nicholls
11:44–11:46	RF242	Application of a Novel MRI-Based Spinal Cord Classification for Predicting Neurological Complications After Thoracic Three-Column Osteotomy	Erh-Ti Lin
11:46–11:48	RF243	Surgical Predictors of Rod Fracture in Adult Spinal Deformity: The Role of Anterior Column Manipulation	Schahin Salmanian
11:48–12:00		Discussion	
12:00–12:02	RF244	Comparison of the Clinical and Radiologic Outcomes between Upper Thoracic versus Mid-Thoracic Upper Instrumented Vertebra in Long Fusions Down to Pelvis for Adult Spinal Deformity	Meric Enercan
12:02–12:04	RF245	Sagittal Alignment Showdown: SRS-Schwab vs Age-Adjusted vs T4–L1 Hip Axis—Which is Superior?	Jay Kumar
12:04–12:06	RF246	Distal Extension Risk After Long Fusion to Lower Instrumented Vertebrae of L4 or L5 in Adult Spinal Deformity: A Multicenter Cohort Study	Atahan Durbas
12:06–12:08	RF247	Dynamic Adaptations of the Thoracolumbar Spine: A Cross-Sectional Analysis of Vertebral Pelvic Angle Changes from Standing to Sitting	Atahan Durbas
12:08–12:10	RF248	Improving Outcomes: Seven-Year Retrospective Trend Analysis of Decreasing Medical Complications in ASD Surgery at a Single Institution	Atahan Durbas
12:10–12:12	RF249	Measuring the Unseen: Hidden Blood Loss in Open Thoracolumbar Fusion	Jakub Jezek
12:12–12:14	RF250	Difference in Sitting Sagittal Balance from Standing Balance in Scoliotic and Non-Scoliotic Adolescents	Stefan Parent
12:14–12:16	RF251	Transition Rods with or Without Junctional Tethering in the Prevention of Proximal Junctional Kyphosis in Adult Spinal Deformities Surgery	Ilaria Barni
12:16–12:18	RF252	Comparative Performance of the Essg-Adsci and Issg-Sii in a Single-Center Adult Spinal Deformity Database	Anthony Baumann
12:18–12:30		Discussion	

Location: Stage A

15:00–15:30	**Surgical Debate: Case Debate: Lumbar Spondylolisthesis with Back Pain and Claudication (Stage B)**	**Moderators:** Ram Kiran Alluri
15:00–15:07	MILD Procedure Provides Durable Pain Improvement without Surgery	Gene Tekmyster
15:07–15:14	Decompression Alone is Effective and Durable without Fusion	John Liu
15:14–15:21	Decompression and Fusion are Most Effective for Long-Term Pain and Functional Improvement	Hani Mhaidli
15:21–15:30	Discussion	

Location: Stage A

16:00–17:00		Rapid-Fire Sessions: Degenerative—Lumbar	Moderators: Giuseppe Barbagallo Fred Nicholls
16:00–16:02	RF253	Vertebral Bone Mineral Density Decrease Following Lumbar Decompression Surgery	Ali Guven
16:02–16:04	RF254	Effect of Implant Removal After Lumbar Fusion Surgery on the Risk of Adjacent Segment Disease - A Retrospective Study	Yun Heng Li
16:04–16:06	RF255	Could Alteration in the Vacuum Phenomenon Rather Than Its Presence be a Sign of Spinal Instability?	Murat Ekşi
16:06–16:08	RF256	Perioperative Morbidity and Mortality Following Elective Spinal Surgery in Octogenarians and Beyond: A Systematic Review and Meta-Analysis	Daniel Nikitin
16:08–16:10	RF257	Opioid-Sparing Effect of Postoperative Continuous Intravenous Nefopam in Multilevel Degenerative Lumbar Spinal Fusion: A Randomized Double-Blind Placebo-Controlled Trial	Korawish Mekariya
16:10–16:12	RF258	Effect of Facet Joint Degeneration on Clinical and Radiographic Outcomes after Oblique Lumbar Interbody Fusion (OLIF)	Vit Kotheeranurak
16:12–16:14	RF259	Lumbar Lordosis in Asian Patients—Implications to Adult Deformity Correction.	Bryan Foong
16:14–16:16	RF260	Comparative Analysis of Revision Rates after Surgical Treatment of Isthmic Lumbar Spondylolisthesis: A Retrospective Study	Mohamed Amine Dhifallah
16:16–16:18	RF261	Vertebropexy—Long-term Durability Of Tendon-based Spinal Stabilization Under Cyclic Loading	Jana Felicitas Schader
16:18–16:30		Discussion	
16:30–16:32	RF262	Anterior and Transforaminal Lumbar Interbody Fusion at L5–S1 level: Clinical Outcomes and Factors Predicting Failure	Ana Vilela
16:32–16:34	RF263	The Safety and Efficacy of Perioperative Nefopam for Analgesia in Spine Surgery: a Systematic Review and Meta-analysis of Randomised Controlled Trials.	Temidayo Osunronbi
16:34–16:36	RF264	Postoperative Ileus After Lumbar Spine Surgery: Modifiable Risk Factors and Impact on Outcomes	Ali Mehaidli
16:36–16:38	RF265	Preoperative Smoking and Walking Distance Predict Two-Year Back Pain Outcomes after Lumbar Fusion Surgery: A Prospective Registry-Based Study of 108 Patients	Peter Muhareb Udby
16:38–16:40	RF266	Determinants Associated with the Failure of Bone Consolidation in Lumbar Arthrodesis	Henar Mª Arqueros Martinez
16:40–16:42	RF267	Reduction in Anxiety and Depression After Lumbar Spinal Stenosis Surgery: A Retrospective Analysis	Fernando Alvarado Gómez
16:42–16:44	RF268	Segmental Lumbar Lordosis Correction with Anterior-TLIF Cage: A Bivariate Regression Analysis	Juan Cárdenas
16:44–16:46	RF269	The intrathecal morphine analgesia for full endoscopic lumbar discectomy: a prospective dose-finding study	Haolin Sun
16:46–16:48	RF270	Standalone Anterior Lumbar Interbody Fusion (ALIF) versus Transforaminal Lumbar Interbody Fusion (TLIF) Cage in the management of lumbar degenerative disc diseases	Samer Samy
16:48–17:00		Discussion	

Location: Stage B

16:00–17:00		Rapid–Fire Sessions: Evidence-Driven Spine Care	Moderators: Bruno Verna Catherine Olinger
16:04–16:06	RF273	Predictors of Heterotopic Ossification after Cervical Disc Arthroplasty	Elisabetta De Rinaldis
16:06–16:08	RF274	Comparative Analysis of Wear Particles and Osteolysis in Lumbar Total Disc Replacement: Biocompatibility Signals of a Viscoelastic Monoblock Disc	Kingsley Chin
16:08–16:10	RF275	Comparative Short-Term Analysis of Anterior Lumbar Interbody Fusion (ALIF) versus Total Disc Replacement (TDR)	Clement Jacquemin
16:10–16:12	RF276	Surgical Treatment of Lenke Type 5 Curves Using Vertebral Body Tethering with Double Screw-Double Cord Fixation: Clinical and Radiological Outcomes Over a Minimum 5–Year Follow-Up	Meric Enercan
16:12–16:14	RF277	Clinical Relationship Between Curve Location and Body Image, Quality of Life, and Depression Levels in Patients with Adolescent Idiopathic Scoliosis	Hüseyin Sina Coşkun
16:14–16:16	RF278	Management of Adult Degenerative Scoliosis in a Neurosurgical Department: Outcomes and Perspectives Based on 34 Cases	Ghassen Gader
16:16–16:18	RF279	The Impact of Modic Changes in Recurrent lumbar Disc Herniation: Persistent Modic Type 1 Changes Demand Fusion—A Single-Center Analysis of 450 Patients	Gregor Fischer
16:18–16:30		Discussion	
16:30–16:32	RF280	Clinical Outcomes of Patients Undergoing Lumbar Decompressive Laminectomy Using Sedation and Erector Spinae Plane Block	Sebastian Cabello
16:32–16:34	RF281	Anterior to Posterior Docking: A Feasibility Study of Lumbar Plexus Displacement in Lateral Lumbar Interbody Fusion	Ashish Patel
16:34–16:36	RF282	Impact of diabetes mellitus on mechanical complications and patient-report outcome measures in adult spinal deformity surgery	Tomohiro Yamada
16:36–16:38	RF283	The Influence of Patient-Reported Allergies on Postoperative Mobility, Pain, and Long Term Outcomes following Lumbar Interbody Fusion	James Bianchi
16:38–16:40	RF284	The Impact of Osteoporosis on Patient Presentation in the Adult Spinal Deformity Population	Anthony Baumann
16:40–16:42	RF285	Interobserver concordance in lumbar vertebral Hounsfield Unit measurement on computed tomography: Validation across training levels	Maria Suarez
16:42–16:44	RF286	PMMA-Augmentation of the Spinous Process as an enhancing-protective measure against Bone Failure in "through the spinous process-Vertebropexy".	Alexandros Tsolakidis
16:44–16:46	RF287	Low-Temperature Spine-Specific PMMA Enhances Bone Regeneration via Localized Thermal Necrosis in an Osteoporotic Rat Model	Young-Yul Kim
16:46–16:48	RF288	Reliability of radiologic interbody fusion assessment in case of 3D printed titanium TLIF cages	Julia Szita
16:48–17:00		Discussion	

Location: Theater

08:30–09:30	**Global Spine Diploma at GSC—One Fracture, Many Worlds: Global Strategies in A3 / A4 TL Spine Fractures**	**Moderators:** Atiq Uz Zaman John L.T. Chen Luiz Gustavo Dal Oglio da Rocha W. Bradley Jacobs Enrico Giordan

Location: Theater

11:30–12:30	**Navigating the First Five Years of Spine Practice: Overcoming Early-Career Challenges**	**Moderators:** Ram Kiran Alluri **Panelists:** Emily Mills Philip Louie Hardeep Singh Christopher Mikhail
11:30–12:30		

Location: Theater

14:00–15:00	**Lumbar DDD: The Role for Arthrodesis or TDR in 2026**	**Moderators:** Pierce Nunley Michael Janssen
14:00–14:10	The Role of Lumbar Total Disc Arthroplasty Technology in 2026	Thierry Marnay
14:10–14:20	Moderator Presentation of the cases	Pierce Nunley
14:20–14:24	Audience Survey	Pierce Nunley
14:24–14:34	Point: Lumbar Spine Fusion for the management of degenerative disc disease	Christina Ottomeyer
14:34–14:44	Counter Point: Lumbar Total Disc Replacement (TDR) for the management of degenerative disc disease	Michael Janssen
14:44–14:48	Spontaneous Rebuttal Debate	Christina Ottomeyer
14:48–14:52	Audience Post Debate Survey	Pierce Nunley
14:52–14:57	When to use Fusion and Non Fusion Technology for patients with Lumbar DDD	Pierce Nunley
14:57–15:00	Q & A	

Location: Theater

16:00–17:00	**Sacro-Iliac Joint Fusion: Not Only for Dysfunction. Experiences In Trauma and Long Constructs**	**Moderators:** Leo Massari David Polly Jean Charles Le Huec
16:00–16:10	SIJoint fusion: more than 10 years of follow-up	Domenico Prestamburgo
16:10–16:20	Is the SIJ fusion necessary in long construct for degenerative spine? And How to do it?	Jean Charles Le Huec
16:20–16:30	SIJ fusion in spino-pelvic and pelvic complex trauma	Leo Massari
16:30–16:40	Results of SILVIA RCT study on Pelvic fixation and SIJ fusion	Jörg Franke
16:40–17:00	Discussion	

Location: Theater

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16:30–16:40	Results of SILVIA RCT study on Pelvic fixation and SIJ fusion	Jörg Franke
16:40–17:00	Discussion	

Location: Theater

17:00–18:00	**Symposium by AO Spine Knowledge Forum Degenerative: How to mitigate the risks and challenges associated with thoracic disc herniation and thoracic stenosis**	**Moderators:** Patrick C. Hsieh
17:00–17:08	How to localize and avoid wrong level surgery in the thoracic spine: Tips and Pearls	S. Tim Yoon
17:08–17:16	Posterior lateral decompression for thoracic disc herniation with myelopathy	Sarvdeep Dhatt
17:16–17:24	Anterior vs. Posterior or combined approach for circumferential thoracic stenosis with myelopathy	Patrick C. Hsieh
17:24–17:32	Transdural approach for thoracic disc herniation with myelopathy	Andreas Demetriades
17:32–17:40	Uniportal Endoscopic thoracic discectomy for thoracic disc herniation: indications and contraindications	
17:40–17:48	Biportal endoscopic decompression for thoracic disc herniation and stenosis	Min-Seok Kang
17:48–17:52	How to assess adequate decompression intra-operatively?	Raj Gala
17:52–18:00	Questions and Discussions	

Location: Stage A

09:00–10:00		Rapid-Fire Sessions: Spine Biologics and MISS	Moderators: Naresh Kumar, Guillem Paz Ramirez
09:00–09:02	RF289	Full-endoscopic lateral recess decompression: How much space do we need?	Vit Kotheeranurak
09:02–09:04	RF290	Comparison of Clinical Efficacy and Safety between Endoscopic and Microscopic Anterior Cervical Discectomy and Fusion	Yongjin Li
09:04–09:06	RF291	Percutaneous Full Endoscopic C1 Laminectomy for Developmental Atlantal Stenosis with Myelopathy: a Primary Cases Report and Review of the Literature	Yi-Hao Liang
09:06–09:08	RF292	Biportal Endoscopic Lumbar Interbody Fusion Using the Multi-Layer Bone Grafting Technique: An Effective Strategy in Resource-Limited Institution	Vu Hoang Duong Tran
09:08–09:10	RF293	Challenges of Biportal Endoscopic Transforaminal Lumbar Interbody Fusion (BE-TLIF) in Spondylolisthesis	Che Wei Liu
09:10–09:12	RF294	A clinical comparison between Microscopic Minimally Invasive Transforaminal Interbody Fusion (MIS-TLIF) with the Enhanced Recovery After Surgery (ERAS) protocol and Unilateral Biportal Transforaminal Lumbar Interbody Fusion (BE-TLIF)	Yi-Hao Liang
09:12–09:14	RF295	A Comparison Of The Long-Term Results Of Anterior Lumbar Interbody Fusion And Total Disc Arthroplasty: A Prospective Randomized Controlled Trial. Mean Follow-Up Of 14 Years	Jasmin Fussi
09:14–09:16	RF296	Comparison of clinical and radiological outcomes of percutaneous endoscopic decompression for stenosis associated with degenerative lumbar scoliosis between different scoliosis curve severity	Chaiyaporn Siramanakul
09:16–09:28		Discussion	
09:28–09:30	RF297	Uniportal Endoscopic Management in Piriformis Syndrome	Pornpavit Sripirom
09:30–09:32	RF298	Clinical Outcomes, Safety, and Cost Considerations of rhBMP-2 in Infection-Related Spinal Fusion: A Systematic Review	Humaid Al Farii
09:32–09:34	RF299	Efficacy and Safety of ABM/P-15 in One- and Two-Level TLIF: A Propensity Score-Matched Comparison with rhBMP-2 or Local Autograft Bone	Leah Carreon
09:34–09:36	RF300	Management and outcomes of fragility vertebral fractures: a single-centre descriptive cohort	André Beco
09:36–09:38	RF301	Preclinical Assessment of NVDX3 as a Bone Graft Substitute in an Posterolateral Lumbar Fusion Model	Andres Bonilla
09:38–09:40	RF302	Radiographic and Patient Reported Outcomes Following Posterolateral Lumbar Fusion Using P-15L: 12–Month Data Inclusive of High-Risk Population	W. Bradley Jacobs
09:40–09:42	RF303	Radiographic and Patient Reported Outcomes in Posterior Cervical Fusion Using P-15L: A Cohort Inclusive of Long-Segment Constructs	W. Bradley Jacobs
09:42–09:44	RF304	A Two-Stage YOLO-Based Deep Learning System for Automatic Detection of Cobb Angle from Scoliosis Radiographs”	Recep Dincer
09:44–09:46	RF305	Isolated Atypical Pedicle Stress Fractures in Patients on Prolonged Bisphosphonate Therapy: Report of Two Cases and a Literature-Based Proposal for Diagnostic Criteria	Maria Auron
09:46–09:48	RF306	Intraoperative 3D Navigation for Transforaminal Endoscopic Lumbar Discectomy at L5–S1: A Technical Note and Video Demonstration	Phanurut Kaewpornmongkol
09:48–10:00		Discussion	

Location: Stage B

09:00–10:00		Rapid-Fire Sessions: Tumor and Optimizing Spine Care	Moderators: Valentina-Alina Buzatu Marco Palanca
09:00–09:02	RF307	Medical Comorbidities and Operative Complexity Are Predictive of Intensive Care Unit Admission After Three Column Osteotomy for Surgical Correction of Adult Spinal Deformity	Christopher Lai
09:02–09:04	RF308	The Role of the Thoracolumbar Junction in Proximal Junctional Complications in Adult Spinal Deformity Surgery	Andrea Pezzi
09:04–09:06	RF309	The Role of Multimodal Intraoperative Neuromonitoring in Pron-Transpsoas Lateral Lumbar Interbody Fusion	Dean Biddau
09:06–09:08	RF310	Revision Rates and Radiographic Sagittal Alignment after Posterior Lumbar Fusions with Adjacent Laminectomies	Janet Hsu
09:08–09:10	RF311	Return to Sport After Spinal Arthrodesis in Adults: a Literature Review of Functional Recovery, Biomechanical Effects, and Rehabilitation Strategies	Nelson Astur
09:10–09:12	RF312	Postoperative Dexamethasone Administration Following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis a Systematic Review of Worldwide Data	Raed Mohammedamin Sharaf
09:12–09:14	RF313	Minimizing Post-operative Opioid Use in Common Spine Surgeries: A Non-Inferiority Quality Improvement Study	Catherine Olinger
09:14–09:16	RF314	Revision surgery for recurrence of cranio cervical junction chordoma: analysis of patient-specific surgical treatment strategies and outcomes	Chiara Cini
09:16–09:18	RF315	Perception and Clinical Use of the NOMS Framework in the Management of Spinal Metastases: First National Survey in Chile	JOAQUIN Zuniga Soria
09:18–09:30		Discussion	
09:30–09:32	RF316	Indication Criteria for Separation Surgery and Radiotherapy in Thoracic Spinal Metastases (C41.2): Radiological Predictors of Neurological Deterioration	Artem Ilgeldiev
09:32–09:34	RF317	Combining New Innovative Technologies in Spine Tumor Surgery - Intraoperative Computer-Assisted Navigation Systems and Robotic-Assisted Surgery for Spinal Tumor Resection	Markus Schultheiss
09:34–09:36	RF318	Understanding The Impact Of Greater Collaboration Around The Management Of Metastatic Bone Disease On Clinicians	Victoria Bradley
09:36–09:38	RF319	Radiofrequency ablation and balloon Kyphoplasty for unstable osteolytic lesion of C2: a case series of 8 patients	Hamdan Abdelrahman
09:38–09:40	RF320	The OxMINT Service—A Process Model Describing The Patient Flow and Key Decision Making Points for a Comprehensive Metastatic Bone Pain Service	Victoria Bradley
09:40–09:42	RF321	Medium-Long Term Outcomes of Carbon Fiber versus Titanium Instrumentation for the Treatment of Spinal Metastases	Stefano Colonna
09:42–09:44	RF322	Impact of Tumor Location on Postoperative Neurological Function in Spinal Metastases Surgery	Affes Ameur
09:44–09:46	RF323	Socioeconomic Status Correlates with Epidural Spinal Cord Compression Severity in Patients Treated for Spine Metastases	Leilani White
09:46–09:48	RF324	Long-Term Follow-Up of Standalone Intrapelvic Fixation Post-Sacrectomy	Larry Lo
09:48–10:00		Discussion	

Location: Stage A

10:30–11:30		Rapid-Fire Sessions: Tumors	Moderators: Ufuk Aydinli, Ankit Mehta
10:30–10:32	RF325	Lactate: An epigenetic modulator in Osteosarcoma	Matthew Goodwin
10:32–10:34	RF326	Planned Versus Emergent Surgery for Spinal Metastases: Short-Term Outcomes and Implications	Sertac Kirnaz
10:34–10:36	RF327	Neurological Complication of Stereotactic Ablative Radiotherapy for Spinal Metastases	Jinho Kim
10:36–10:38	RF328	Role Of Sodium Fluorescein-Guided Resection In Intradural Spinal Cord Tumors: Prospective Observational Study	Deepak Kumar
10:38–10:40	RF329	Surgical treatment of arachnoid cysts in the spinal canal—a systematic literature review and case series	Sara Azaric
10:40–10:42	RF330	Impact of Patient Age on Surgical Decision-Making and Outcomes in Spinal Metastases	Meltem Ivren
10:42–10:44	RF331	Evaluation of Separation Surgery Success Rate and Its Impact on Clinical and Radiological Outcomes in Metastatic Spinal Cord Compression: A Postoperative MRI-Based Analysis	Sung Tan Cho
10:44–10:46	RF332	Which Patients Have the Best Chances of Improving Their Neurological Status After Pathological Spine Fractures Presenting With Neurological Compromise?	Zhi Wang
10:46–10:48	RF333	Could Patients' Neurological Status Deteriorate After Posterior Decompression and Fusion for Unstable Vertebral Pathological Fractures?	Zhi Wang
10:48–11:00		Discussion	
11:00–11:02	RF334	Surgical Practice Patterns for Metastatic Spinal Disease in Europe—A Survey on Spine Surgeons	Leevi Toivonen
11:02–11:04	RF335	Carbon Fiber-Reinforced-Pedicle Screws for Treatment of Spinal tumors. Report of 54 patients	Hamdan Abdelrahman
11:04–11:06	RF336	Evaluating the outcomes of posterior-only, anterior-only and combined surgical approach in the management of cervical spine metastasis	Qinxiang Shant Sin
11:06–11:08	RF337	Five-Year Single-Center Experience with Spinal Tumors: Tumour Types and Operative Strategies	Ioannis Dravopoulos
11:08–11:10	RF338	Impact of Surgical Planning Status on Survival, Resource Utilization, and Functional Outcomes of Metastatic Spine Tumor Surgery: Systematic Review	Rafael De La Garza Ramos
11:10–11:12	RF339	Evaluating the Impact of UK GIRFT Guidelines on Cauda Equina Syndrome Referrals and Delays: A Single-Centre Retrospective Study	Youssef Sadek
11:12–11:14	RF340	Anterior Column Reconstruction With Autologous Vertebral Bone Graft After En Bloc Resection For Primary Tumors	Valerio Pipola
11:14–11:16	RF341	Limitations of D-Wave Monitoring: Nerve Root Injury Despite Preserved Corticospinal Tract Function	Larry Lo
11:16–11:18	RF342	Aneurysmal Bone Cysts Involving the Spine and Skull: Case Series of Uncommon Presentations with Management Outcomes	Bipin Mishra
11:18–11:30		Discussion	

Location: Stage B

10:30–11:30		Rapid-Fire Sessions: Degenerative—Cervical	Moderators: Catherine Olinger Laura Scaramuzzo
10:30–10:32	RF343	Disc Signal–Lordosis Mismatch: The Impact of Cervical Disc Degeneration on Supine MRI versus Standing Radiograph Alignment	Yunus Emre Yilmaz
10:32–10:34	RF344	Miyazaki Syndrome: Diagnostic Challenges and Surgical Outcomes—A Systematic Review	Alexandru Budu
10:34–10:36	RF345	Cervical Pedicle Screws Versus Lateral Mass Screws: Comparative Analysis of Efficacy and Stability in Cervical Spine Fusion	Anas Dyab
10:36–10:38	RF346	Cervical Spondylotic Myelopathy with Coexisting ALS: An Exploratory Single-Center Cohort of 22 Surgically Treated Patients	Rui Chen
10:38–10:40	RF347	Rigid Cervical Collars After Posterior Cervical Fusion: Do They Improve Outcomes? A Randomized Clinical Trial	Mohsen Rostami
10:40–10:42	RF348	Posterior Decompression and Fusion for Cervical Stenosis: Neurologic and Global Functional Gains with Neck Specific Functional Trade-offs	Berkay Paker
10:42–10:44	RF349	Does Spinal Canal—Cord Mismatch Adversely Affect Clinical Outcomes of Anterior Cervical Discectomy and Fusion for the Treatment of Cervical Myelopathy?	Ji Uk Choi
10:44–10:46	RF350	Open-Door Cervical Laminoplasty Using Repurposed Titanium Miniplates: Favorable Clinical and Radiological Outcomes With a Cost-Effective Alternative	Mohammad El-Sharkawi
10:46–10:48	RF351	Healthcare Provider Perspectives of Various Signs and Symptoms for Diagnosing Degenerative Cervical Myelopathy: Results of an International, Multidisciplinary Survey	Lance Burn
10:48–11:00		Discussion	
11:02–11:04	RF353	Incidence of C5 Palsy in Anterior Cervical Decompression & Fusion, Posterior Cervical Decompression & Fusion and Laminoplasty for Degenerative Cervical Myelopathy: Systematic Review and Meta-analysis of 21,231 cases	Sathish Muthu
11:04–11:06	RF354	Comparison of Posterior-Only versus Combined Anterior-Posterior Approaches in Multilevel Cervical Spondylotic Myelopathy	Mustafa Kavcar
11:06–11:08	RF355	Outcomes of Posterior Endoscopic Decompression Combined With Anterior Microsurgery in Cervical Myelomalacia and Dynamic Stenosis: A Strategy for Safe Circumferential Decompression and Prevention of White Cord Syndrome	Hayati Aygun
11:08–11:10	RF356	Cost Analysis of Intraoperative Neuromonitoring for Cervical Spine Surgery	Kenneth Nguyen
11:10–11:12	RF357	Comparative Radiological Outcomes of Stand-Alone Cage versus Cage and Plate in Anterior Cervical Discectomy and Fusion (ACDF): A Retrospective Analysis	Jawad Derbas
11:12–11:14	RF358	Multilevel Anterior Cervical Decompression and Discectomy for degenerative disease—Clinical and Radiological Outcome	Inayat Panda
11:14–11:16	RF359	Ultrasonic Aspirator versus high speed burr in cervical laminectomy: A Retrospective Comparative Study	Priyanshu Saha
11:16–11:18	RF360	Preoperative Hypoalbuminemia Predicts Increased 90-Day Complications Following Elective Anterior Cervical Discectomy and Fusion: A National Propensity-Matched Analysis	Pouya Alijanipour
11:18–11:30		Discussion	

Location: Theater

09:00–10:00	AO Spine Youth Club Awards	Moderators: Sompoom Sunpaweravong, Chiara Cini
09:00–09:10	Introduction to AOSYC/recap of our progress in the past year	Sompoom Sunpaweravong
09:10–09:35	Interview with Dr Jeffrey Wang and Dr Juan Emmerich	Jeffrey C. Wang
09:35–09:40	Announcement of the AO SYC Youtube Star Award	
09:40–09:45	Announcement of the AO SYC Best Oral Presentation Award	
09:45–09:50	Announcement of the AO SYC Best E-Poster Presentation Award	
09:50–09:55	Announcement of the AO SYC Science Slam Creativity Award	
09:55–10:00	Final remarks and highlights	

Location: Theater

10:00–10:30	A Case-Based Exploration of Adult Spinal Deformity	Moderators: Raymond Hah Panelists: David Polly, Samuel Cho, Emily Mills
10:00–10:30		

Location: Theater

10:30–11:30	Interventional Treatment of Axial Low Back Pain	Moderator: Gene Tekmyster
10:30–10:45	Vertebrogenic Pain and novel treatment via Basivertebral nerve ablation of chronic axial low back pain	Gene Tekmyster
10:45–11:00	Facet Joint Mediated Pain—Radiofrequency Ablation	Hakan Gunduz
11:00–11:15	Multifidus dysfunction—ReActiv8 Implantable Restorative Neurostimulation System	Gene Tekmyster
11:15–11:30	Panel Case Discussion and Q&A	

Location: Theater

11:30–12:30	Debate on Surgical Approaches for Cervical Radiculopathy	Moderators: Jean-Jacques Abitbol, Hani Mhaidli
11:30–11:35	Case Presentations: Cervical Radiculopathy	Jean-Jacques Abitbol
11:35–11:45	ACDF is best	Hani Mhaidli
11:45–11:55	TDR is best	Jean-Jacques Abitbol
11:55–12:05	Tubular Foramenotomy is best	Roger Härtl
12:05–12:15	Endoscopic decompression is best	Vit Kotheeranurak
12:15–12:30	Discussion	

Global Spine Congress 2026

Sponsors and Exhibitors



CGBIO CELL & GROWTH FACTOR BIOTECHNOLOGY

Booth 86, 87 & 88

CG Bio Inc. is a global healthcare company and total healthcare provider focused on improving quality of life through innovative solutions for spinal disorders and wound management. With continuous R&D investment, CG Bio develops advanced bone grafts, spinal implants, growth factors, and regenerative technologies worldwide.

https://www.cgbio.co.kr/en

DePuy Synthes

Booth C and D

At DePuy Synthes we are on a mission to keep people moving by leveraging our deep expertise in joint reconstruction, robotics and enabling tech, spine, sports, trauma, and extremities, to develop the next generation of medtech solutions. We offer one of the most comprehensive Orthopaedics portfolios in the world that helps heal and restore movement for the millions of patients we serve.

https://www.jnjmedtech.com/en-EMEA/companies/depuy-synthes

RIWOSPINE
A Richard Wolf Company

Booth 69 & 76

RIWOspine has been pioneering full-endoscopic spine surgery over the past 25 years, which makes the company one of the most experienced and global leading partner for full-endoscopic spine surgery and spinal interventional pain therapy.

RIWOspine's innovative solutions have been developed in close cooperation with internationally renowned clinical partners and have been proven worldwide in daily surgical applications for years. With the evospine brand, RIWOspine is expanding its product portfolio to include another innovative product line in the field of minimally invasive spine surgery.

The new product range comprises special implant and instrument solutions for

interbody fusion and posterior stabilization of the spine, and will be offered in dedicated markets.

RIWOspine – advanced product solutions for minimally invasive spine procedure.

https://www.riwospine.com/en/

SIEMENS Healthineers

Booth 55, 56, 57 &58

Siemens Healthineers pioneers breakthroughs in healthcare. For everyone. Everywhere. Sustainably. The company is a global provider of healthcare equipment, solutions and services, with activities in more than 180 countries and direct representation in more than 70. The group comprises Siemens Healthineers AG, listed as SHL in Frankfurt, Germany, and its subsidiaries. As a leading medical technology company, Siemens Healthineers is committed to improving access to healthcare for underserved communities worldwide and is striving to overcome the most threatening diseases. The company is principally active in the areas of imaging, diagnostics, cancer care and minimally invasive therapies, augmented by digital technology and artificial intelligence. In fiscal 2025, which ended on September 30, 2025, Siemens Healthineers had approximately 74,000 employees worldwide and generated revenue of around €23.4 billion.

https://www.siemens-healthineers.com/clinical-specialities/surgery/surgical-disciplines/spine-surgery-equipment

One system. Total spine solution.

NAVIGATE YOUR SURGERY TO THE NEXT LEVEL

BOOTH #88



AI



Endoscopy



TrajeX Navigation Set



Expandable cage



MIS Screw System

Hands-on Workshop

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Robot-assisted Endoscopic Spine Surgery

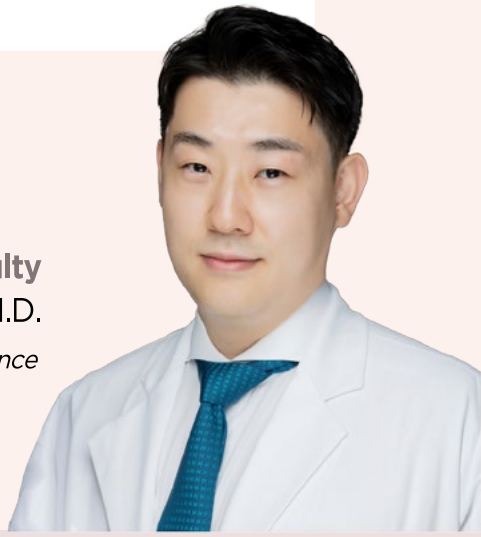
Basic
08:00-12:00
Robot-assisted Endoscopic Decompression
— Interlaminar & Transforaminal Approach

Advanced
13:00-17:00
Robot-guided Biportal Endoscopic Lumbar Interbody Fusion (UBE-LIF)

Date Wednesday, May 27, 2026

Location GSC 2026, Istanbul, Türkiye **ROOM 5**

Faculty
Young San, Ko M.D.
Over 1,500 UBE Cases Experience



CUREXO ✖ SOLENDOS.

By CGBIO Company

Booth 49, 50 & 51

Globus Medical, Inc. is a leading musculoskeletal technology company based in Audubon, PA. The company was founded in 2003 by an experienced group of engineers and business leaders who believed that significantly better patient outcomes in spine surgery were possible. Today Globus Medical is committed to creating products that enable surgeons to promote healing in patients with musculoskeletal disorders. At Globus Medical, listening to customers and responding with action is paramount, and the company is relentlessly focused on solving unmet customer and patient needs with world class engineering and technology.

https://www.globusmedical.com

Booth 83, 84 & 85

Medacta is a global key player specializing in innovative and personalized solutions for joint replacement, sports medicine, and spine surgery.

Headquartered in Switzerland, it aims to enhance patient outcomes, with a focus on healthcare sustainability.

http://www.medacta.com

Booth 9

Bold thinking. Bolder actions. We are Medtronic. We lead global healthcare technology and boldly attack the most challenging health problems facing humanity by searching out and finding solutions. Our Mission — to alleviate pain, restore health, and extend life — unites a global team of 95,000+ passionate people. Powered by our diverse knowledge, insatiable curiosity, and desire to help all those who need it, we deliver innovative technologies that transform the lives of two people every second, every hour, every day. Expect more from us as we empower insight-driven care, experiences that put people first, and better outcomes for our world. In everything we do, we are engineering the extraordinary.

http://www.medtronic.com

Booth 31 & 32

Mizuho OSI® improves the surgical experience through advanced patient positioning. With products like the ProAxis® Spinal Surgery Table and the Levó® Head Positioning System, surgeons can precisely adjust and align the patient's spine throughout surgery.

https://www.mizuhosi.com

Booth 70, 74 & 75

NORMMED is global solution partner for advanced spine, trauma, arthroplasty and arthroscopy device systems with supported by comprehensive surgical instrumentation. Headquartered in Türkiye with active export operations in 70 countries, NORMMED products are trusted and used by leading surgeons worldwide.

With more than 40 years of experience in the spine field, NORMMED is recognized for its engineering excellence, strong clinical references and commitment to innovation. As the inventor of Antibacterial Silver Coating Technology, the company remains focused on advancing patient outcomes and supporting the global spine and orthopedic community through reliable technologies and a forward-looking approach to medical innovation.

As a leading spine and orthopedic manufacturer from Türkiye, NORMMED is honored to support the Global Spine Congress in Istanbul and to engage with the international spine community in advancing knowledge, collaboration and clinical excellence.

http://www.normmed.com.tr

Booth 72

Founded in 1999, Chongqing Xishan Science & Technology Co., Ltd. is a national high-tech enterprise specializing in the R&D, manufacturing, sales, and service of minimally invasive surgical devices and medical consumables. Xishan has also been recognized as a National Intellectual Property Demonstration Enterprise. With 27 years of dedicated focus on minimally invasive surgical equipment, Xishan has developed a comprehensive product portfolio spanning surgical power devices, 4K UHD endoscopy systems, electrosurgical equipment, and vacuum-assisted breast biopsy systems. The surgical power devices have emerged as nationally leading brands, achieving world-class technological standards. The power device series has secured CE, KFDA, and CMD certifications, supported by over 300 patents.

In spine surgery, Xishan delivers complete solutions to empower every surgeon. The flagship Bendable Bur exemplifies this commitment—offering 0°–36° radial adjustment and 0°–360° circumferential rotation for enhanced surgical precision and expanded operative space. Within the orientation of 'Supplier of Total Solution of Minimally Invasive Surgical Instruments' , Xishan is committed to delivering innovative products to hospitals and patients worldwide, advancing global healthcare.

We look forward to meeting you at GSC 2026.

https://www.xishanmed.com

Booth 61

Founded in 2001, A-SPINE specializes in spinal medical devices. From design and R&D to manufacturing and clinical application, we uphold professionalism and a strong sense of responsibility at every stage. We are committed to delivering stable, safe, and practical solutions, striving to offer patients around the world more secure and reassuring treatment options through innovation and attentive service.

We believe that truly exceptional products must be rooted in the real needs of clinical practice. A-SPINE works closely with leading orthopedic surgeons and major medical centers in Taiwan, focusing on cervical, thoracic, lumbar indications and minimally invasive surgery. We continuously refine our designs based on real surgical scenarios. By actively participating in professional conferences and academic exchanges both domestically and abroad, we gather valuable firsthand surgical feedback and ensure that each innovation is aligned with the expectations and needs of frontline users.

https://www.aspine.com.tw/en-us

Booth 67

Angell Technology is a professional global provider of digital medical imaging devices. Founded in 2002, we have nearly 600 employees. We are committed to providing reliable digital medical imaging devices and services for global medical institutions and are determined to become a leading global brand in the medical and health industry.

We have products including Digital Radiography, Dynamic DR, Mobile DR, Digital Mammography, and Digitizer. Till 2025, the installed base of all our products has reached 30,000 units, with users in more than 100 countries.

We always focus on the R&D innovation and manufacturing technique improvement of digital medical imaging devices. We invest more than 15 percent of the international sales revenue every year as R&D expense. We are few manufacturers with the technology of x-ray detector, x-ray tube, and x-ray generator in the world.

https://en.szangell.com

Booth 14

Armed Inc. is a global medical technology company headquartered in Hanam-si, Gyeonggi-do, South Korea, New Face Of Endoscopic Spine Surgery,specializing in innovative solutions for endoscopic spine and orthopedic surgery.

As a one-stop provider of high-quality medical devices, Armed Inc. offers a complete product portfolio that includes Biportal and Uniportal endoscopic instruments, RF systems, high-speed drills, imaging systems, and biologic materials.

With almost all products CE and FDA certified, ensuring the highest standards of quality, safety, and performance. Trusted by surgeons worldwide, the company's technologies are designed to deliver precision, efficiency, and superior clinical outcomes in minimally invasive procedures.

Armed Inc. operates with a strong global presence, maintaining subsidiaries in Los Angeles (USA), Den Haag (Netherlands), and Tashkent City (Uzbekistan), and active distribution across more than 17 countries. The company's international training programs, conducted in partnership with top hospitals and world-renowned surgeons in South Korea, provide hands-on education in advanced endoscopic spine techniques.

Committed to continuous innovation, Armed Inc. integrates cutting-edge engineering with surgeon feedback to create next-generation surgical systems that redefine modern spine care. With a clear focus on excellence, education, and global collaboration, Armed Inc. stands as a trusted partner in advancing minimally invasive spine surgery and improving patient outcomes worldwide.

https://armed.kr

Booth 89

As an innovation leader in minimally invasive surgical (MIS) techniques, Arthrex offers a comprehensive product portfolio for the next generation of MIS spine procedures that surgeons can rely on. From endoscopic approaches, soft-tissue repair, and stabilization to motion-preserving techniques, cellular therapies, and bone healing, the orthobiologics products from Arthrex represent the latest biologics spine treatment backed by scientific research. Arthrex continues to lead the field with best-in-class product development, world-class medical education, groundbreaking research, and innovative therapies that are Helping Surgeons Treat Their Patients Better.

https://www.arthrex.com/spine/products

Booth 43

Baxter offers a comprehensive portfolio of products and programs that allow surgical teams to make the critical decisions that mean longer, healthier lives. Baxter's portfolio of products and supporting programmes are fundamental to the cadence of surgery, just as surgeons, nurses, and administrators are essential to the art of healing. Clinically-proven products allow surgical teams freedom to innovate and think creatively without restraint in the operating room.

https://advancedsurgery.baxter.eu

Booth 77 & 82

Established in 1996, Beijing Fule Science & Technology Development Co.Ltd is a manufacturer and trader specialized in the research, development and production of Orthopaedic products. The company is located at Mafang West Industry Zone, Pinggu district, Beijing, CHINA. The company has a "Product R&D center" which consists of mechanical design, mechanics of materials, biomechanics and clinical experts with a lot of experience; "Production Processing center" which consists of five axis-longitudinal machining center, vertical milling machining center, CNC machines; "Marketing center" with an excellent sales network throughout China (except Hong Kong, Macao and Taiwan). After 30 years of development, Beijing Fule has an excellent management team and a highly skilled staff working hard with great enthusiasm. Our overall goal is to become a world supplier in orthopaedic implants and instruments.

Our main products include spinal products, trauma products, Nail system, multi-functional external fixator, knee meniscus suturing device, rehabilitation instrument, surgical power tools and related instruments. Beijing Fule has won the trust from customers and doctors with its mature technology and excellent quality. At the same time, the company's products have been widely used by thousands of large and medium-sized hospitals in the world and achieved a good report, winning a high reputation from many orthopedic experts.

http://www.fulekeji.com/en

Booth 26

The Swiss company Bien-Air Surgery develops, manufactures, and markets high-quality power tools for ENT, neuro and spine surgery in order to simplify the work of surgeons and constantly improve patient comfort.

https://surgery.bienair.com

Booth 1

The Swiss company Bien-Air Surgery develops, manufactures, and markets high-quality power tools for ENT, neuro and spine surgery in order to simplify the work of surgeons and constantly improve patient comfort.

http://biocomposites.com

Booth 91

Bioventus is a global leader of innovations for active healing. Through a combination of internal product development, product/business acquisition, and distribution agreements, we will bring to market products which address a growing need for clinically effective, cost efficient, minimally invasive medical treatments, that engage and enhance the body's natural healing processes.

Surgical Solutions: We have a suite of minimally invasive therapeutic ultrasonic technologies based on the neXus® Ultrasonic Surgical Aspirator System optimized for hard and soft tissue removal. A solution providing more power and more versatility, while simultaneously controlling cost. Handpieces used by surgeons that are powered by the neXus system include BoneScalpel® and SonaStar® for precision removal of soft tissue.

https://www.bioventus.com

Booth 23

Transforming variable OR practices into standardized protocols that save time, reduce injuries, and elevate patient safety from surgery to home recovery. Surgeon-designed ortho, trauma, and spine foam positioning solutions trusted in 7,500+ facilities globally.

https://bonefoam.com

Booth 5 & 6

BPB MEDICA™ is a leading Italian-based healthcare manufacturer, known for its fully integrated, in-house production of medical and surgical devices for minimally invasive surgery.

Key Product Lines:

- Biopsy
- Spine
- Ortho-biologics
- Assisted Reproduction
- Intensive Care
- Aesthetic

https://www.biopsybell.com

Booth 33, 34 & 35

At Brainlab, we digitize medical workflows from diagnosis to therapy, and our innovative ecosystem forms the basis for modern healthcare technology.

We help healthcare providers build three-dimensional patient-specific models with data that is structured, mapped and aggregated with industry-leading artificial intelligence. This builds the basis of our navigation system for the human body, clinicians can safely remove brain tumors, place screws in the spine precisely, and irradiate breast tumors with millimetric precision.

Our robotics and mixed reality technologies and expertise allow users to connect and innovate between the digital and physical worlds. In addition, Brainlab technologies power the collection of structured long-term data and medical registries.

Through the neuroscience of play, Brainlab advances clinical training and education, promoting the adaptation to technological advances and creating digital models of complete interventions. Our digital ecosystem is an open interface and forms a framework for third parties to accelerate innovation in other clinical areas as well.

Brainlab systems are established in around 4000 hospitals in 120 countries to offer doctors and patients better treatment possibilities. At the forefront of health technology for over 35 years, the company headquarters are in Munich, and we employ around 2000 people of 87 nationalities in 25 locations.

https://www.brainlab.com

Booth 17

Canwell Medical, a medical device company founded in 1994, is now one of the largest designers, manufacturers, and suppliers of orthopedics implants and instruments in China. The company has established strategic partnerships with many well-known international companies and undertakes the OEM world's top internationally famous brand products.

https://www.canwellmed.com

Booth 78

Care Surgical is a global company focused on providing safe and comfortable patient positioning products for a variety of surgical procedures. Offering a comprehensive range of disposable and reusable pads, covers and cushions, our products are compatible with most spine and standard operating table systems on the market. We pride ourselves on being responsive to our customers' needs and welcome new concepts to complement our product range. Our world class customer service and robust quality management systems have earned us ISO 13485 certification. Our commitment to excellence is why so many customers choose Care Surgical for their patient positioning needs."

https://www.care-surgical.com

Booth 40

Centinel Spine® is the leading global medical device company focused exclusively on addressing cervical and lumbar spinal disease with prodisc®, the most complete and clinically-proven total disc replacement (TDR) technology platform in the world.

https://www.centinelspine.com

Booth 7

Centrau Medical is a professional manufacturer specializing in the OEM production of spinal and cervical orthopedic instrument sets and individual instrument components. We offer customized design solutions tailored to clients' specific requirements. The company is registered with FDA and holds CE certificate under MDR. As a trusted contract manufacturing partner of a leading global spine company, Centrau Medical delivers high-quality products while helping customers optimize costs—thereby enhancing financial performance and operational profitability.

https://www.centraumed.com

Booth B

ChM brings over 45 years of experience in developing orthopaedic implants and instruments with doctors and research partners. We grow our portfolio in trauma, spine and craniofacial surgery. Quality confirmed by ISO and CE certifications.

https://chm.eu

Booth 79

CKI is a Canadian medical technology company specializing in advanced surgical navigation systems. Driven by innovation, CKI empowers surgeons with smarter tools, greater precision, and a portable solution to improve patient outcomes.

https://medical.claronav.com

Booth 45 & 46

elliquence educates physicians to perform the least invasive procedural solutions for spine pathologies and manufactures the tools to support them. elliquence supplies a comprehensive variety of endoscopic spine systems along with the Disc-FX® discectomy system and our family of Trigger-Flex® steerable bipolar handpieces, all of which are used with our Surgi-Max® Ultra Generator, a unique High Frequency Low Heat RF energy source, that spares healthy tissue while precisely treating pathology.

https://www.elliquence.com

Booth M

We are a Hungarian developer and manufacturer of Neurosurgical and Laparoscopic products with almost 30 years of experience. Our product experience, skills and high standards enable us to hold a special place on the market, as we cover all processes from scratch to exporting to around 40 countries globally. Endoscopic spine surgery has been our main focus for some time; therefore, we are able to offer our High-Speed Drill System for different surgical application like the Monoportal or Biportal approaches. Thanks to our consistent efforts we put into our development projects, we manage to launch new products continuously that follow current market trends and provide new solutions for the difficulties surgeons may have.

https://emd-med.com

Booth 92

EOS imaging, an ATEC company, is a leader in outcome-improving radiographic imaging and data-informed software solutions. EOS is globally recognized for its low-dose, full-body biplanar imaging platform and its cloud-based digital spine ecosystem. EOS technology informs the entire surgical process by capturing a calibrated, full-body image in a weight-bearing position, enabling precise measurement of anatomical angles and dimensions. The EOS ecosystem drives a more accurate understanding of patient alignment during diagnosis, elevates the likelihood of surgical goal fulfillment by integrating a fully informed plan, and enables a post-operative assessment of the treatment strategy.

https://www.eos-imaging.com/

Booth 65

Chongqing FWS Medical Device Co., Ltd. was established in 2012, located in Chongqing Liangjiang New Area, a national high-tech enterprise, is the largest orthopedic consumable production base in the western region. The company focuses on the R&D, production and sales of orthopedic consumables and its supporting instruments, with product lines covering spine, trauma, wound management, sports medicine and other niche areas.

We have mastered the core technology with independent intellectual property rights,

developed a number of exclusive products and approved a number of national patents.

We introduced international advanced precision processing equipment, created an industry-leading digital production line, set up a perfect biomechanical laboratory, has successively passed ISO13485 and CE certification. The company is fast becoming a comprehensive medical device company with high core competitiveness.

http://en.fws-china.com

GE HealthCare

Booth 28 & 29

GE HealthCare is a global leader in medical technology, diagnostics, and digital solutions, focused on enhancing clinician effectiveness, precision therapies, and improving patient health and well-being. Our innovative surgical solutions provide clear visualizations, empowering surgeons with data-driven insights in a variety of procedures.

https://www.gehealthcare.com/products/ultrasound/surgical-visualization-and-guidance

GLOBAL biomedica

Booth 18

Global Biomedica manufactures spinal interbody fusion implants designed in cooperation with leading specialists in spine medicine. We use the latest manufacturing technologies and the most recent scientific knowledge to minimize complications and to help patients in quick recovery.

https://www.globalbmd.com

GS Medical
YOU DRIVE. WE DELIVER.

Booth 47

GS Medical supplies spinal implants and instrumentation, delivering high-quality surgical solutions. Our mission is to improve treatment outcomes and quality of life for patients with back and neck pain by creating intuitive, state-of-the-art spine products.

https://gsmedicalusa.com

HC Biologics

Booth 30

HC Biologics is a leading provider of innovative solutions in the healthcare industry and specialize in developing and manufacturing top quality biologics along with advanced spinal, arthroplasty, trauma, arthroscopy, and cardiothoracic solutions which revolutionize medical treatments and improve patient outcomes.

https://www.hcbiologics.com

HICREN

Booth 20

Founded in 2011 and headquartered in Hangzhou Bay New Area, HICREN operates branches in Shanghai. Our 11,000 m^2 headquarters includes a 1,200 m^2 Class 10,000 GMP-compliant purification workshop. Our team brings together senior management and top-tier R&D talent from Fortune Global 500 companies, driving continuous innovation to position HICREN as a robot-empowered leader in minimally invasive orthopedics. HICREN is the first manufacturer in China to obtain both CFDA and CE approvals for percutaneous curved vertebroplasty (PCVP) and kyphoplasty (PCKP) products. We offer the most comprehensive range of curved and traditional PKP/PVP solutions in China and are recognized globally as a leader in PCVP and PCKP technology. Our portfolio extends to interbody fusion and non-fusion systems, bone repair materials, sports medicine devices, spinal implants, endoscopic solutions, and AI-driven surgical innovations.

Guided by the belief that Technology Leads the Future, we are dedicated to advancing minimally invasive orthopedic technology, delivering superior solutions for patients and surgeons worldwide, and becoming the most innovative company in consumables and equipment for orthopedics.

https://www.hicren.com

HumanTech Spine

Booth 25

At HumanTech Spine, headquartered in Baden-Württemberg near Stuttgart, we develop and manufacture all our products in-house.

We deliver our innovative spinal implant systems to customers worldwide.

“Everything from a single source” – that’s how we uphold our commitment to quality: 100% Made in Germany.

https://humantech-spine.de/68-de-Startseite.html

icotec

Booth 44

icotec, a pioneering Swiss medical device company, is revolutionizing spinal tumor treatment with their innovative nonmetallic spinal implants made of carbon-fiber-reinforced PEEK (BlackArmor® Carbon/PEEK).

The radiolucent material has been successfully used in clinical applications for over 20 years, offering significant advantages over traditional metal implants, including enhanced treatment options for spinal oncology patients undergoing radiotherapy and clear imaging during follow-up.

For more information, visit our website below.

https://www.icotec-medical.com/en

isto BIOLOGICS

Booth 27

Isto Biologics is a 100% biologics-focused company dedicated to helping patients heal faster. With a portfolio comprised of the market leading autologous concentration device as well as a differentiated bone grafting portfolio that offers functional solutions to meet patient and procedural challenges,

Isto is equipped to offer a range of customizable options to surgeons of varying specialties.

https://www.istobiologics.com

inomed

Booth E

Medical device company that engineers, manufactures and markets world leading products for use in infection management in bone and soft tissue. Our products are now used in over 1 million procedures per annum and sold in more than 100 countries around the world.

https://www.inomed.com/application-field-spine-surgery/

JEILMEDICAL

Booth 81

Since 2000, we’ve specialized in craniomaxillofacial screws and plates. Today, we offer a comprehensive range of surgical solutions, including dental, neuro, orthopedic, thoracic, spinal, veterinary and spinal products. Through innovative management, we export to over 80 countries across the US, Europe, South America, Middle East, Africa, and Asia.

https://www.jeilmed.co.kr/en

Johnson&Johnson MedTech

Booth A

Surgical solutions from Johnson & Johnson MedTech

Across Johnson & Johnson, we are tackling the world’s most complex and pervasive health challenges. For over 100 years, we have helped advance surgical care through our innovative portfolio across wound closure, adjunctive hemostats, surgical stapling and instruments, robotics and digital solutions. Together, with clinicians and healthcare experts around the world we are progressing what’s next in surgery to better solve patient needs in metabolic and cardiovascular disease, cancer, and aesthetics and reconstruction.

https://www.jnjmedtech.com/en-US/

joimax®
Endoscopic Spine Experts

Booth 8

joimax® is the global leader in full-endoscopic, minimally invasive spinal surgery – developing, manufacturing and marketing complete surgical systems that enable tissue- and muscle-sparing spinal procedures.

We combine decades of specialist experience, rigorous quality standards (EN ISO 13485, FDA, EU-MDR) and worldwide partner coordination – all to enable safer, patient-friendly spinal care.

http://www.joimax.com/en/

MAVERA
medical devices
BEYOND FROM WITHIN™

Booth 2

Mavera Medical Devices, based in Ankara, develops advanced ultrasonic, endoscopic, RF surgery, orthopedic, biologic, endovascular, and wound-care systems. We deliver innovative, proven technologies focused on quality, patient outcomes, and global trust.

http://www.maveramedical.com.tr

Booth 39

Hoogland Spine Products GmbH was founded in 2006 in Munich, Germany, by orthopedic surgeon and inventor Dr. Thomas Hoogland. The late Dr. Hoogland had a vision to develop, educate, and distribute instrumentation for targeted surgery to treat herniated discs, disc degeneration, and facet joint pathology. Having performed over 15,000 minimally invasive spine procedures, he incorporated his extensive expertise into the design of the maxmorespine® system and the philosophy behind the procedure. Today, the company is owned by his son and CEO, Jaap Hoogland.

https://max-more.com

Booth 37

Our vision is to improve patient's lives through technological innovation.

Mectron was founded in 1979, and is headquartered in Carasco, Italy.

With over 40 years of research and continuous innovation, Mectron's patented PIEZOSURGERY® technology has revolutionized the way bone surgery is performed. Today, Mectron's PIEZOSURGERY® plus and line of inserts provide surgeons with cutting-edge technology and surgical solutions aimed at improving patient outcomes. The expansive postoperative benefits of PIEZOSURGERY® have been experienced by distinguished surgeons in over 80 countries across our globe.

In the neuro and spine surgical fields, PIEZOSURGERY® allows for superior surgical control, unmatched precision and maximum safety. PIEZOSURGERY® is proven to preserve the surrounding dura, nerves and vessels promoting preservation and sustained integrity of the spinal column.

Connect with us on Linkedin and Facebook.

https://excellences.mectron.com

Booth 18

Medart Technology is a forward-looking medical device company committed to advancing patient care through precision-engineered spine and orthopedic implant solutions. Headquartered in India and built to global standards, Medart combines clinical insight, engineering excellence, and surgeon-driven innovation to deliver reliable, evidence-based solutions for modern surgical challenges.

At Medart, product development begins with the clinician. Our implants are designed in close collaboration with experienced spine surgeons, ensuring optimal biomechanics, anatomical compatibility, and ease of use in the operating room. Every product undergoes rigorous design validation, material selection, and quality control processes aligned with international regulatory and manufacturing standards.

A cornerstone of Medart's innovation ecosystem is its strategic collaboration and partnership with ARM and renowned spine surgeon Dr. Hamid Abbasi. Through this collaboration, Medart has co-developed advanced spine solutions, including next-generation interbody fusion technologies such as the OLLIF Cage, combining minimally invasive principles with robust structural performance. This partnership reflects Medart's commitment to translating global clinical expertise into scalable, high-quality implant systems for surgeons worldwide.

With a growing portfolio spanning spine fixation systems, interbody cages, and specialty implants, Medart serves surgeons who demand consistency, precision, and long-term clinical outcomes. Our mission is to empower doctors across the globe with thoughtfully engineered implants that enhance surgical confidence and improve patient recovery.

Driven by innovation, collaboration, and uncompromising quality, Medart Technology stands as a trusted partner for surgeons shaping the future of spine care.

https://medarttech.com

Booth I

MDsim is a medtech company developing SPINEsim, an AI-powered SaMD that creates patient-specific biomechanical digital twins of the spine. It enables spine health check-ups, progression tracking, and optimized degeneration and deformity surgery planning—beyond imaging, beyond geometry.

https://mdsim.health

Booth 66

We bring Sports Medicine to the Spine. Moving Spine advances innovative spine care to improve patient outcomes and maintain natural function. With Vertebropexy (VPX), we aim to establish a new treatment category – a percutaneous stabilization concept performed in under five minutes.

http://www.movingspine.ch

Booth 4

We are an owner-managed company specializing in innovative spinal implants. Driven by motion preservation, NGMedical develops solutions that maintain movement – complemented by fusion systems ensuring stability where needed.

https://ngmedical.de/en

Booth 15

Novarad, founded in 1988, delivers enterprise imaging and workflow solutions worldwide. With NovaPACS EI, VisAR AR navigation, and MobileRad 360, we empower providers with secure, innovative tools that improve outcomes and transform healthcare.

https://www.novarad.net

Booth 21 & 22

Osimplant is a leading Turkish medical technology company dedicated to developing high-quality spinal implants and surgical systems that provide innovative solutions in spine surgery. Since its establishment, OSimplant has operated with the core values of trust, quality, and innovation, aiming to enhance the quality of life for patients and to support surgeons worldwide.

Driven by a strong R&D vision, Osimplant continuously expands its product portfolio with designs tailored to the specific needs of spinal surgery.

Our implants and systems are engineered to exceed international standards in terms of biocompatibility, durability, and ergonomics. All manufacturing processes are carried out in our state-of-the-art facilities, strictly adhering to ISO 13485 and CE certifications to ensure safety and reliability.

As a globally expanding brand, Osimplant is proud to deliver innovative spinal implant systems and surgical solutions that empower surgeons and improve patient outcomes. Through scientific collaborations, continuous education programs, and active participation in international congresses, we remain committed to advancing the field of spine surgery.

At Global Spine Congress 2026, we are delighted to present our latest innovations and advanced manufacturing technologies and to engage with spine professionals from around the world in sharing knowledge and expertise.

https://osimplant.com

Booth 12

Paonan Biotech Co., Ltd., established in 1985 , has grown alongside global spinal technology. Founded by Mr. Benny Yeh, who has over 40 years of manufacturing and sales experience and participated in more than 200 patent applications, Paonan focuses on innovation in spinal devices.

The company offers comprehensive spinal solutions, covering fusion and non-fusion treatments, with products designed for precision, biomechanical optimization, and clinical usability.

In 2019, Paonan launched NEST, the first FDA-approved 3D-printed spinal fusion cage in Asia, receiving the Taiwan Excellence Award. In 2025, the company successfully passed Brazil's regulatory audit and obtained ANVISA approval, marking a milestone for South American expansion.

Paonan's R&D team collaborates with international medical advisors to ensure the highest standards of safety and efficacy. With an in-house biomechanics laboratory and multiple service branches across Asia, Paonan continues to advance spinal care worldwide.

https://www.biomech-spine.com

Booth 36

PRODORTH SPINE is an innovative, engineering-based brand focused on spine since 2013.

We manufacture titanium & PEEK implants in-house and have a growing distributor network in over 30 countries.

https://www.prodorth.com

Booth N

Qingdao Zhixing Medical Co., Ltd. is a leading Chinese manufacturer specializing in the R&D and smart production of precision-engineered minimally invasive surgical instruments. Committed to enhancing global healthcare,

we distribute worldwide, welcome agents, and provide OEM services.

https://www.zhixingmed.com

Booth 73

Shanghai Reach Medical Instrument Co., Ltd. Established in 2006, is an innovative high-tech enterprise, specialized in research, manufacture and sales of spine implants and supporting instruments. Undertaking multiple tasks from National Major Projects, Shanghai Major R&D Projects, and the industrialization of Major Projects in Minhang District. Also authenticated as Shanghai specialized and sophisticated SME that produce novel and unique products, and the pilot and demonstration unit for Shanghai patent utilization.

https://www.reach-med.com

Booth H

RealHealth delivers a successful combined physical and psychological treatment program for patients with persistent spine related pain. Until at least 5 years after the intervention, patients report better functioning and an improved quality of life.

https://realhealth.nl/en

Booth 16

We are a medical technology manufacturer from Villingendorf near Rottweil / Tuttlingen for instruments and accessories, especially for electrosurgery and arthroscopy.

Our company was founded in 1975 by master surgeon Werner Reger. Since Alexander Hetzel took over the company in 2004, we have gradually expanded our product portfolio.

Today, REGER develops, produces and distributes with approx. 120 employees at four locations in Germany, the Czech Republic and Switzerland.

We are an efficient and internationally operating company with short decision-making processes, comprehensive service and a wide product range. Throughout the company, we place great emphasis on the safety and efficacy of our products to ensure the best possible patient care. Our portfolio also includes instruments tailored to specific applications, which are developed together with customers. For this purpose, we support customers with years of experience, our own experts and in-depth development and manufacturing know-how.

https://www.reger-medical.de/en

Booth 59

SI-BONE is a global leader in technology for surgical treatment of sacropelvic disorders. SI-BONE has leveraged its leadership in minimally invasive SI joint fusion to commercialize novel solutions for adjacent markets, including adult deformity, spinopelvic fixation, and pelvic trauma.

https://si-bone.com

Booth 62 & 63

Spineart is a medical device company focused on simplifying spinal surgery with innovative solutions in Minimally Invasive Surgery, Motion Preservation, Fusion, Biologics, and Fractures. Its products combine safety, efficiency, and cost-effectiveness, guided by a philosophy of Quality, Innovation, and Simplicity.

https://www.spineart.com

Booth 13

Introducing the world's first smart surgical eyewear navigation system that combines Augmented Reality (AR) and Mixed Reality (MR) technologies. Our AR Smart Surgical Eyewear for Spinal Navigation is designed to meet the specific needs of surgeons, revolutionizing traditional open spinal surgeries. With TFDA Class II Medical Device License, our innovative system enhances surgical efficiency and accuracy, providing a user-friendly human-machine interface and ergonomic smart assistance.

Augmented Reality (AR) and Mixed Reality (MR) technologies have been repeatedly identified as the most promising technologies for future growth.

We believe that AR and MR represent a disruptive innovation that can truly transform the field of medicine and clinical practices.

In the past years, during the development of our product, Caduceus S AR Surgical Eyewear, we have conducted clinical trials and anatomical simulations in various hospitals and medical institutions.

Specifically designed for orthopedic and neurosurgical procedures, our Caduceus S AR Surgical Eyewear serves as a spinal navigation system, revolutionizing the way these surgeries are performed.

We provide top-quality medical products, ensuring they meet the Good Manufacturing Practice (GMP) standards for medical devices. Our products are certified with the prestigious ISO 13485 for advanced medical manufacturing and have obtained FDA 510(k), TFDA (Taiwan), and EU CE certifications.

https://surglasses.com/en

Booth 80

TeDan Surgical Innovations (TSI) designs and manufactures advanced surgical access systems for cervical, posterior, lateral, and anterior spine procedures. Our Phantom brand is engineered for optimal exposure, stability, and ease of use to enhance the surgeon experience. With over 70+ years of combined expertise, TSI is a trusted leader in OEM innovation, providing rapid market entry, cost-effective solutions, and uncompromising quality assurance.

http://www.tedansurgical.com

Booth 90

Teknimed is a global leading biotechnology laboratory specialized in engineering and manufacturing biomaterial solutions.

https://www.teknimed.com

Booth 41 & 42

Tria Spine® serves nearly globaly with MDR Confirmation, ISO 13485:2016 and international patents as a spinal implant manufacturer. As Tria Spine we are honored to mention that we are one of three manufacturer of Vertebral Body Tethering System worldwide. WE SERVE LIFE.

https://www.triaspine.com

Booth 3

Unintech is a German company focusing in the development and production of high-quality instruments and endoscopes for full-endoscopic spine surgery.

Since our founding in 2019, we have been dedicated to advancing the field of endoscopic surgery, combining German precision engineering with innovative design to deliver reliable and efficient solutions to the professionals. Our products are crafted to the highest industry standards, providing surgeons with dependable tools and approaches to enhance patient outcomes.

Our unique approach enables spine surgeons to seamlessly integrate their knowledge of traditional open surgery with unintech's advanced endoscopic techniques, reducing the learning curve for new users. Our unique "tube-in-tube" technology facilitates precise bone removal and disc space preparation under full-endoscopic guidance, improving both safety and accuracy in spinal decompression and fusion procedures.

Unintech also offers different educational programs to support spine surgeons at all experience levels, from beginners to those with prior endoscopic expertise. Join us to experience this new technique!

For more information, please contact us at marketing@unintech.de.

https://www.unintech.de

Booth G

UpSurgeOn is a leader company in surgical simulation specialized in high-fidelity training models for Spine Surgery. It focuses on physical mastery of techniques through hyper-realistic, haptic-rich simulators and immersive VR/AR technologies.

https://www.upsurgeon.com

WASTON® MEDICAL

Booth 64

Waston Medical, established in 2002, is a leading medical device manufacturer in China, driven by the core principles of innovation and collaboration. The company specializes in multiple product lines, including orthopedics, thoracic implants, and minimally invasive solutions. Its orthopedic portfolio focuses on trauma, spine, sports medicine, and UBE equipment, addressing diverse and evolving clinical needs.

Headquartered in Changzhou—approximately 80 km west of Shanghai—Waston Medical operates a modern industrial base covering more than 100,000 m^2, comprising 50,000 m^2 of standard workshops and 5,000 m^2 of ISO-compliant cleanroom facilities. The company adheres strictly to international quality management systems. All products are certified under CE0123 standards, with selected products also approved by the U.S. FDA.

Collaboration with clinical experts is a cornerstone of Waston's development strategy. By integrating frontline clinical insights into product design and manufacturing, the company has successfully launched innovative solutions such as the Three Rows Staplers Series, Revdrill Intramedullary Nail Series, 3D printing systems, and the Sternal & Rib Fixation System.

With a strong global footprint, Waston Medical works with over 800 distributors and supplies products to more than 3,500 hospitals worldwide. Its presence spans over 65 countries, including both emerging markets and developed regions such as Australia, Germany, the Netherlands, Switzerland, and Spain.

Committed to advancing patient care, Waston Medical continuously strives to improve quality of life by enhancing procedural efficiency and clinical effectiveness through innovative design, uncompromising quality standards, and advanced manufacturing technologies.

https://www.waston-global.com

ZEISS

Booth 52, 53 & 54

Carl Zeiss Meditec AG offers a comprehensive line of surgical microscopes and loupes to enhance visualization during spine surgery. ZEISS medical loupes provide specialists with high-contrast images at a wide range of magnification levels. Surgical microscopes for spine surgery ensure optical precision, flexibility and ease of use for both surgeon and assistant.

https://zeiss.ly/pentero800s

ziehm imaging

Booth 24

Ziehm Imaging, founded in Nuremberg in 1972, is a leading medical technology company specializing in the development, manufacturing and worldwide marketing of mobile X-ray-based imaging solutions. With a diverse portfolio ranging from mini C-arms from its daughter company Orthoscan to motorized full-size C-arms from Ziehm Imaging, the company covers the broadest spectrum of clinical applications and services.

Together with its second daughter company Therenva, Ziehm Imaging sets standards with innovative solutions in the cardiovascular and endovascular fields that enable efficient planning and navigation. With more than 50 years of experience in research and innovation, Ziehm Imaging stands for setting standards in intraoperative imaging with state-of-the-art technology and excellent image quality. Thanks to the mobility of the C-arms, clinics benefit from flexible application options, lower installation costs and a lower radiation dose. Ziehm Imaging employs more than 900 experts at its global headquarters in Nuremberg and its numerous international offices in the USA, China and many other countries.

https://www.ziehm.com/en

Cervical Spine Research Society

Egyptian Spine Association

European Association of Neurological Societies

Eurospine

Lumbar Spine Research Society

North American Spine Society

Pan Arab Spine Society

Saudi Spine Society

Singapore Spine Society

Society of Iraqi Orthopedic and Spine Surgery

Turkish Neurosurgical Association

Turkish Orthopedic Association

Turkish Spine Society

Exhibition Floorplan



A-SPINE 61
Angell 67
Armed 14
Arthrex 89
Baxter 43
Beijing Fule ..... 77 & 82
Bien-Air Surgery 26
Biocomposites 1
Bioventus 91
BoneFoam 23
BPB MEDICA™ ..... 5 & 6
Brainlab ..... 33, 34 & 35
Canwell Medical 17
Care Surgical 78
Centinel Spine 40
Centrau 7
CGBIO ..... 86, 87 & 88
ChM Sp. z o.o. ..... B
Chongqing FWS Medical Device Co., Ltd 65
ClaroNav Kolahi Inc. 79
DePuy Synthes ..... C & D
EANS 93
Egyptian Spine Association 94
elliquence ..... 45 & 46
EMD ..... K
EOS Imaging 92
GE HealthCare ..... 28 & 29
Global Biomedica 18
Globus Medical ..... 49, 50 & 51
GS Medical 47
HC Biologics 30
HICREN 20
HumanTech Spine 25
icotec 44
Inomed ..... E
Iraqui Ortho And Spine Association 95
Isto Biologics 27
JEILMEDICAL Corporation 81
Johnson & Johnson MedTech ..... A
joimax® 8
Mavera 2
MaxMore Spine 39
MDsim I
Mectron 37
Medacta ..... 83, 84 & 85
Medart ..... J
Medtronic 9
Mizuho OSI ..... 31 & 32
Moving Spine 66
NGMedical GmbH 4
NORMMED ..... 70, 74 & 75
Novarad 15
Osimplant ..... 21 & 22
Paonan Biotech Co., Ltd 12
Permed Saglik 11
PRODORTH SPINE 36
Qingdao Zhixing Medical Co., Ltd ..... N
REGER Medizintechnik 16
Reach Medical 73
Realists 48
RealHealth ..... H
RIWOspine ..... 69 & 76
SI-BONE 59
Siemens ..... 55, 56, 57 & 58
Singapore Spine Society: 97
Spineart SA ..... 62 & 63
Taiwan Main Orthopaedic Biotechnology Co. Ltd 13
TeDan Surgical Innovations, LLC 80
Teknimed 90
Tria Spine Medikal A.S ..... 41 & 42
Turkish Spine Society 96
Unintech GmbH 3
UpSurgeOn 68
Waston Medical 64
Xishan 72
ZEISS ..... 52, 53 & 54
Ziehm 24

Theater Sessions Overview

INDUSTRY SESSION SCIENTIFIC SESSION

Thursday, May 28, 2026

09:30–10:00	Neuromonitoring in Spine surgery. Advanced Technology. Simplified
10:00–10:30	The Power of Positioning: Increasing Clinical Applications for a Hinge-Powered Spinal Surgical Table
10:30–11:00	Knowledge Forums' impact on the spine world
11:00–12:00	A Global Approach to Improving Diversity for Spine Surgeons
13:30–14:30	Symposium hosted by the Saudi Spine Society (SSS): Spine Trauma Update
15:30–16:00	SEE MORE of the Spine: A Multidisciplinary Approach to Spinal Oncology and Early Experiences with CMORE®
16:00–17:00	GSJ—Live from Istanbul: Return to Play After Spine Surgery in High Performance Athletes
17:00–18:00	Surgical management of difficult thoracic disc herniation and other problems
18:00–19:30	Award Ceremony

Friday, May 29, 2026

08:30–09:30	Global Spine Diploma at GSC—One Fracture, Many Worlds: Global Strategies in A3 / A4 TL Spine Fractures
09:30–10:00	Integrating 3D Guidance Into Spine Surgery Workflows
10:00–10:30	Advanced techniques in full-endoscopic spine surgery
10:30–11:30	State-of-the-Art Bone Fusion Strategies: Evidence from BGS-7 ceramic to rhBMP-2
11:30–12:30	Navigating the First Five Years of Spine Practice: Overcoming Early-Career Challenges
14:00–15:00	Lumbar DDD: The Role for Arthrodesis or TDR in 2026
15:00–15:30	Cervical Total Disc Replacement with Fixed Core Kinematics/ with a Keeled Implant
15:30–16:00	We take it personally—Spine Care where every step matters
16:00–17:00	Sacro-Iliac Joint Fusion: Not Only for Dysfunction. Experiences In Trauma and Long Constructs
17:00–18:00	Symposium by AO Spine Knowledge Forum Degenerative: How to mitigate the risks and challenges associated with thoracic disc herniation and thoracic stenosis

Saturday, May 30, 2026

09:00–10:00	AO Spine Youth Club Awards
10:00–10:30	A Case-Based Exploration of Adult Spinal Deformity
10:30–11:30	Interventional Treatment of Axial Low Back Pain
11:30–12:30	Debate on Surgical Approaches for Cervical Radiculopathy

Industry Theater Sessions

Thursday, May 28, 2026

Location: Theater

09:30–10:00	**Neuromonitoring in Spine surgery. Advanced Technology. Simplified**	**Speakers:** Christin Turck, Nina Sitt (Germany)

Location: Theater

10:00–10:30	**The Power of Positioning: Increasing Clinical Applications for a Hinge-Powered Spinal Surgical Table**	**Speaker:** Samir Smajic (Germany)

Location: Theater

15:30–16:00	**SEE MORE of the Spine: A Multidisciplinary Approach to Spinal Oncology and Early Experiences with CMORE®**	**Speakers:** Christian Mazel (France), Kristin J. Redmond (USA), John H. Shin (USA)

Friday, May 29, 2026

Location: Theater

09:30–10:00	**Integrating 3D Guidance Into Spine Surgery Workflows**	
	Can We Combine the Simplicity of Fluoroscopy with the Confidence of 3D Navigation?	Franziska Pammler (Germany)
	Preclinical Accuracy Results and Early Experience of myScrew Path Assist on ARTIS pheno.vision	Raffael Cintean (Germany)

Location: Theater

10:00–10:30	**Advanced techniques in full-endoscopic spine surgery**	
	Evolution of Full-endoscopic lumbar spine surgery—from decompression to fusion	Sebastian Ruetten (Germany)
	Full-endoscopic Spine Surgery at the cervical spine in posterior technique—Indications and limitations	Martin Komp (Germany)

Location: Theater

10:30–11:30	**State-of-the-Art Bone Fusion Strategies: Evidence from BGS-7 ceramic to rhBMP-2**	**Moderators:** Jeffrey C Wang, Sangwook Tim Yoon (USA)
	Clinical Excellence: 53-Month Randomized Controlled Outcomes of Novomax in Cervical Fusion	Jin-sung (Luke) Kim (South Korea)
	Efficacy and safety of Novosis(rhBMP-2) in TLIF: A Randomized, Multicenter, Blinded, Prospective Study	Sang-Min Park (South Korea)
	Evaluating Two Recombinant BMP-2 Formulations in Transforaminal Lumbar Fusion: Does the Carrier Matter?	Naresh Kumar (United Kingdom, India)

Location: Theater

15:00–15:30	**Cervical Total Disc Replacement with Fixed Core Kinematics/ with a Keeled Implant**	
	Cervical Total Disc Replacement with Fixed Core Kinematics	Nicolai El Hindy (Germany)
	Cervical Total Disc Replacement with a Keeled Implant	Nicolai El Hindy (Germany)

Location: Theater

15:30–16:00	**We take it personally—Spine Care where every step matters**	
		Markus Loibl (Switzerland) Gianluca Vadala (Italy)

Instructional Course Lectures (ICLs)

Thursday, May 28, 2026

Location: Room 2

12:15–13:15	**DePuy Synthes:** **Enhancing surgical precision for complex cases:** **Next generation active robotics that work for you.**	**Moderator:** Sameh Abolfotouh (UAE)
		Isador Leiberman (USA) Dan Sciubba (USA) Amit Jain (USA)

Location: Room 3

12:15–13:15	**GS Medical:** **Contemporary Strategies in Standalone Cervical Fusion and Vertebral Augmentation: Indications, Techniques, and Clinical Outcomes**	**Moderator:** Patrick Hsieh (USA) **Panelists:** Jeffrey C. Wang (USA) Jean-Jacques Abitbol (USA)
12:15–12:25	Anterior Cervical Fusion: Plate-Based Constructs vs. Standalone InterbodyDevices—Indications and Clinical Considerations	John K. Liu (USA)
12:25–12:35	Indications and Surgical Technique for Standalone ACDF	Jean-Jacques Abitbol (USA)
12:35–12:50	Clinical Outcomes of Multilevel Standalone Cervical Fusion	Burak Ozgur (USA)
12:50–13:05	Better options for Standalone ACIF: Internally Fixated vs Externally Fixated	Raymond Hah (USA)
13:05–13:15	Panel Discussion and Audience Q&A	

Friday, May 29, 2026

Location: Room 3

12:45–13:15	**FZIOMED:** **Reducing Postoperative Pain: Technology, Evidence, and Surgical Experience**	**Moderator:** TBA
		Jeffrey C. Wang (USA) Paul M. Arnold (USA) Rupesh Rao (Australia)

Meet the Experts

Thursday, May 28, 2026

Location: Booth 83-84-85

9:30–10:00	Meet the expert at the Medacta booth	
9:30–10:00	MySpine technology: Beyond traditional trajectories	Yoshiharu Kawaguchi (Japan) Geert Mahieu (Belgium)

Location: Booth 69-76

9:30–10:00	Meet the expert at the RIWOspine booth	
9:30–10:00	Surgical Demo: Full-endoscopic Spine Surgery at the cervical spine—posterior approach	Martin Komp

Location: Booth 55-56-57-58

9:30–10:00	Meet the expert at the Siemens Healthineers booth	
9:30–10:00	Can a robotic self-driving C-arm help standardize intraoperative imaging in spine surgery?	Johannes Groh

Location: Booth 8

15:30–16:00	Meet the expert at the Joimax booth	
15:30–16:00	Dorsal endoscopic cervical foraminotomy: Technique and clinical experience	Alfonso Garcia

Location: Booth 49-50-51

15:30–16:00	Meet the expert at the Globus Medical booth	
15:30–16:00	Advancing Safety in a Transpsoas approach: The Role of Transabdominal Motor Action Potentials (TMAP) Neuromonitoring in Lateral Spine Surgery	Ashish Patel

Location: Booth 69-76

15:30–16:00	Meet the expert at the RIWOspine booth	
15:30–16:00	Surgical Demo: Full-endoscopic Over the top Decompression in Spinal Stenosis	Withawin Kesornak

Location: Booth 55-56-57-58

15:30–16:00	Meet the expert at the Siemens Healthineers booth	
15:30–16:00	Can a robotic self-driving C-arm help standardize intraoperative imaging in spine surgery?	Johannes Groh

Friday, May 29, 2026

Location: Booth 8

10:00–10:30	Meet the expert at the Joimax booth	
10:00–10:30	Transforaminal endoscopic approach for the treatment of herniated discs and stenosis	Muhammed Assous

Location: Booth 45-46

10:00–10:30	Meet the expert at the elliquence booth	
10:00–10:15	Endospine in Srilanka: Our Milestones in Overcoming Challenges	Speaker: V. Swarnakumar Co-Speaker: Chanaka Solangaarachchi
10:15–10:30	Endoscopic Lumbar Spinal Stenosis Surgery	Speaker: İsmail Kaya

Location: Booth 37

10:00–10:30	Meet the expert at the Mectron booth	
10:00–10:30	Cervical Laminectomies with PIEZOSURGERY®—Immersive live demonstration and Hands-on training	Jean Lefebvre (France)

Location: Booth 83-84-85

10:00–10:30	Meet the expert at the Medacta booth	
10:00–10:30	NextAR Spine: From navigation to patient-matched rod management	Georgios Bakaloudis

Location: Booth 45-46

15:00–15:30	Meet the expert at the elliquence booth	
15:00–15:30	Advantages and Benefits of Mult-e Portal Approach	Moderator: Takeshi Kaneko

Location: Booth 37

15:30–16:00	Meet the expert at the Mectron booth	
15:30–16:00	Cervical Laminectomies with PIEZOSURGERY®—Immersive live demonstration and Hands-on training	Jean Lefebvre (France)

Global Spine Congress 2027

AO SPINE

Yokohama, Japan

June 9–12, 2027

SAVE THE DATE



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AO SPINE

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