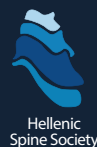


# WORLD SPINE9



**3-5**

**November**  
**2022**

Grand Hyatt

**Athens, Greece**

[www.worldspine9.com](http://www.worldspine9.com)

ANNUAL CONGRESS OF THE  
**15<sup>TH</sup>**  
**HELLENIC  
SPINE  
SOCIETY**

**Final  
Program**

**45<sup>TH</sup> Scoliosis Symposium**  
N. Giannestras - P. Smyrnis



**Congress Secretariat**

35 Sorou Str., Maroussi, Athens - Greece **T** +30 210 6109991 **E** [mmantala@concopco.com](mailto:mmantala@concopco.com) **www.concopco.com**

## Welcome Message



**Vasileios  
Lykomitros**  
WS9 Chairman

We are delighted to welcome participants from all around the globe to World Spine 9, the ninth World Congress of Spine Surgery, in Athens-Greece.

The idea of hosting a combined spinal meeting between the World Spinal Column Society and the Hellenic Spine Society, as a representative of all the Balkan region, originates from the need for lifelong learning and interactive education on spine pathology and surgery.

The program of this meeting is multi-thematic and emphasis is given on controversial issues in spinal surgery as well as on new aspects such as tissue engineering and spinal technology advances. This unique collaborative meeting between spinal specialists from around the world will give an exceptional opportunity to exchange knowledge and experiences.

We are certain that this three-day program will provide new insights that you can apply to your practice as we will review the latest in spine surgery techniques and research, discuss our most complicated cases and debate clinical and surgical problems.

It is our honor and pleasure to welcome you all to the World Spine 9 & 15<sup>th</sup> Annual Congress of the Hellenic Spine Society & 45<sup>th</sup> Scoliosis Symposium "N. Giannestras – P. Smyrnis" to the city of Athens, the historical Capital of Science and Philosophy, hoping that you will enjoy your visit through its unique culture, picturesque sights and traditional gastronomy.

## Welcome Message



**Salman Sharif**  
WScS President

It is my pleasure to welcome all participants to World Spine 9, the ninth World Congress of Spine Surgery, in Athens, Greece.

Following the successful eighth congress, WS8 that took place in 2018 in Portugal, we are looking forward to meeting an increased number of colleagues from all medical specialties involving spine surgery from around the world. The organizing committee of the congress is also happy to announce Greece as the host nation of World Spine 9. This brings us great memories of one of the most successful WS meetings in the past.

World Spine 9 will cover all the topics of spine surgery, such as MIS, endoscopy, motion preservation, stabilization, degenerative, tumor, deformity surgery, innovative and emerging technologies, biologics, and basic science related to spine surgery.

Spine surgery has always been constantly evolving with new physical, technological, and quantitative methods emerging to support medicine. In our field, there is continuous change and during recent years, we have witnessed even more rapid advancements in many areas, which calls for further reassessment of our professional development and education. It is the responsibility of spine surgeons to update knowledge and improve hands-on expertise.

Our conference city Athens, Greece has a rich history from ancient times right up to these modern days. We would like you to enjoy our scientific program and the beautiful historic city of Athens.

I would like to express my thanks to Hellenic Spine Society and to their President Vassilis Lykomitros for hosting the event, and for choosing the excellent venue at the modern and well accessible Grand Hyatt.

**Title:** World Spine 9

**Date:** November 3-5, 2022

**Venue:** Grand Hyatt Athens, Greece

**Organization:**



**Hosted by:**



**Congress Language:** English

**Chairman:** Vasileios Lykomitros

**President of the WScS:** Salman Sharif

# Hands-On Cadaver SPINE WORKSHOP

PRE-MEETING FOR  
WORLD **SPINE** 9



CADAVER PROGRAM

ATTC  
CENTER

Chairpersons: Ziya Gökaslan, Doug Orr, Mehmet Zileli, Konstantinos Paterakis, George Sapkas

08:00-08:15 **Introduction**  
Ziya Gökaslan, Doug Orr08:15-10:00 **Lectures**

AULA HALL

08:15-08:30 Upper cervical anterior approaches  
Ziya Gökaslan08:30-08:45 Lower cervical anterior approaches  
Nikolay Peev08:45-09:00 Cervical anterior fixation and arthroplasty  
Paulo Pereira09:00-09:15 Upper cervical posterior approaches  
Mehmet Zileli09:15-09:30 Upper cervical posterior fixation  
Nikolay Peev09:30-09:45 Lower cervical posterior fixation and laminoplasty  
Ioannis Polythodorakis09:45-10:00 Cervico-thoracic junction anterior-posterior approaches  
Ziya Gökaslan10:00-10:30 **Coffee break**10:30-12:30 **Anatomy Lab 1**12:30-13:30 **Lunch**

13:30-15:00

**Lectures**

**AULA HALL**



13:30-13:45

Posterior-posterolateral thoraco-lumbar approaches  
[Salman Sharif](#)

13:45-14:00

Lumbar transforaminal endoscopy  
[Hyeun Sung Kim](#)

14:00-14:15

Lumbar tube guided surgery  
[Mehmet Zileli](#)

14:15-14:30

Thoracic and lumbar pedicle screwing  
[Doug Orr](#)

14:30-14:45

Posterior TL deformity correction  
[Panagiotis Zoumpoulis \(ATH\)](#)

14:45-15:00

Osteotomy techniques  
[Onur Yaman](#)

15:00-15:30

**Coffee break**

15:30-17:30

**Anatomy Lab 2**

ATTC  
CENTER

08:15-10:00

## Lectures

AULA HALL



08:15-08:30

Interbody fusion techniques TLIF, ALIF, XLIF  
[Konstantinos Paterakis](#)

08:30-08:45

Anterior and lateral approaches to TL spine  
[Ioannis Polythodorakis](#)

08:45-09:00

Thoracoscopic approaches  
[Hyeun Sung Kim](#)

09:00-09:15

Percutaneous pedicle screw fixation  
[Nikolay Peev](#)

09:15-09:30

Vertebral body augmentation techniques  
[Paulo Pereira](#)

09:30-09:45

Case for deformity correction  
[Onur Yaman](#)

09:45-10:00

Case for osteotomy and or revision  
[Nikolay Peev](#)

Ziya Gökaslan  
Doug Orr  
Nikolay Peev  
Paulo Pereira  
Mehmet Zileli  
Salman Sharif  
Hyeun Sung Kim  
Onur Yaman  
Lilyana Angelov

10:00-10:30

## Coffee break

10:30-12:30

## Anatomy Lab 3

12:30-13:30

## Lunch

13:30-15:00

## Lectures

AULA HALL



13:30-13:45

Case for cervical trauma  
[Mehmet Zileli](#)

13:45-14:00

Case for thoracolumbar trauma  
[Salman Sharif](#)

14:00-14:15

Case for endoscopic discectomy  
[Hyeun Sung Kim](#)

14:15-14:30

Case for spine tumor  
[Ziya Gökaslan](#)



14:30-14:45	Case for lumbar interbody fusion Doug Orr
14:45-15:00	Case for TL anterior/lateral approach Lilyana Angelov
15:00-15:30	Coffee break
15:30-17:30	Anatomy Lab 4

Instructors:

Ziya Gökaslan  
Doug Orr  
Nikolay Peev  
Paulo Pereira  
Mehmet Zileli  
Salman Sharif  
Hyeun Sung Kim  
Onur Yaman  
Lilyana Angelov

Kostantinos Soultanis  
Elias Papadopoulos  
Marios Lykisas  
Kostantinos Paterakis  
Ioannis Polythodorakis  
Panagiotis Zoumpoulis  
Sotiris Papastefanou  
Dimos Bouramas  
Emmanouil Tsafantakis  
Andreas Morakis  
Vasilios Vougioukas  
George Sapkas

WORLD  
**SPINE**9



ANNUAL CONGRESS OF THE  
**15<sup>TH</sup>** **HELLENIC**  
**SPINE**  
**SOCIETY**



## CONGRESS PROGRAM

HALL  
PARTHENON

13:00-13:15 **Opening remarks**  
Vasillis Lykomitros, Salman Sharif

13:15-15:30 **Keynote Lectures**  
Moderators: Mehmet Zileli, TBA



13:15-13:30 History of the World Spine  
Edward C. Benzel

13:30-15:45 How to make MIS a disruptive surgery  
Richard Assakar

13:45-14:00 Ultra MIS Surgery  
Michael Wang

14:00-14:15 Spinal instability: An Emerging Concept  
Atul Goel

14:15-14:30 Minimally Invasive Correction of Adult Spinal Deformity  
Richard Fessler

14:30-14:45 Management of Primary Spine Tumors  
Ziya Gökaslan

14:45-15:00 Nonfusion Techniques for Scoliosis  
David Marks

15:00-15:30 Discussion

15:30-16:00 **Coffee break and poster view**

16:00-17:00

**Panel 1: Lumbar spinal stenosis: Surgical indications and techniques**

Moderators: [Joachim Oertel](#), TBA



16:00-16:15

Current state of lumbar spinal stenosis management  
[Athanasios Spiliotopoulos](#)

16:15-16:30

When and how to make fusion in lumbar spinal stenosis  
[Federico Girardi](#)

16:30-16:45

When and how to make decompression in lumbar spinal stenosis  
[Tobias Pitzen](#)

16:45-17:00

Discussion

17:00-18:00

**Best oral presentations (8 min talk, 2 min disc)**

Moderators: [Vasilis Lykomitros](#), [Rully Hanafy Dahlan](#)



17:00-17:10

Paper 1

17:10-17:20

Paper 2

17:20-17:30

Paper 3

17:30-17:40

Paper 4

17:40-17:50

Paper 5

17:50-18:00

Paper 6

19:30-21:30

**Welcome reception**

HALL  
ULYSEES

- 16:00-17:00 **Panel 2: Spinal cord injury: An update**  
Moderators: [Sait Naderi, TBA](#)
- 16:00-16:15 Current state of the spinal cord injury management  
[Richard Fessler](#)
- 16:15-16:30 Value of medical management in spinal cord injury  
[Stacey Darwish](#)
- 16:30-16:45 Timing of surgery in spinal cord injury  
[Paulo Pereira](#)
- 16:45-17:00 Discussion



- 17:00-18:00 **Oral presentations 1** (8 min talk, 2 min disc)  
Moderators: [Sandeep Vaishya, TBA](#)
- 17:00-17:10 Paper 7
- 17:10-17:20 Paper 8
- 17:20-17:30 Paper 9
- 17:30-17:40 Paper 10
- 17:40-17:50 Paper 11
- 17:50-18:00 Paper 12



- 18:00-19:00 **WSCS Board Meeting**

**HALL  
CYCLADES**

15:30-16:00 **Coffee break and poster view**

16:00-17:00 **Failed Back Surgery Syndrome**

Moderators: **Anastasios Christodoulou, TBA**



16:00-16:15 Etiology- pathophysiology and how to prevent FBSS  
**Thomas Apostolou**

16:15-16:30 Pain management  
**Patti Gatziani**

16:30-16:45 Indications for revision lumbar disc surgery  
**Ioannis Gelalis**

16:45-17:00 Interventional rehabilitation  
**Avraam Ploumis**

17:00-18:10 **Scoliosis Management**

Moderators: **Panagiotis Korovesis, TBA**



17:00-17:10 Conservative Management of Idiopathic Scoliosis  
**Theodoros Grivas**

17:10-17:20 Fusionless Scoliosis Today  
**Elias Papadopoulos**

17:20-17:30 Scoliosis Classification and selection of Fusion Levels  
**Kostas Soultanis**

17:30-17:40 AIS posterior fusion techniques - manoeuvres of correction  
**Evangelos Christodoulou**

17:40-17:50 Navigation in Spine Deformity Surgery  
**Marios Lykisas**

17:50-18:00 Adult Scoliosis Today: An Update  
**Federico Girardi**

18:00-18:10 Discussion

HALL  
PARTHENON08:00-09:00 **Oral presentations 2** (8 min talk, 2 min disc)Moderators: [Amjad Shad, TBA](#)

08:00-08:10 Paper 13

08:10-08:20 Paper 14

08:20-08:30 Paper 15

08:30-08:40 Paper 16

08:40-08:50 Paper 17

08:50-09:00 Paper 18

09:00-10:15 **Plenary Session 1: The Future of Spine Surgery**Moderators: [Edward C. Benzel, Abdelfattah Saoud](#)09:00-09:15 Global spine health: How can we improve?  
[Salman Sharif](#)09:15-09:30 How can we improve spine surgery education?  
[Edward C. Benzel](#)09:30-09:45 Can new technologies improve patient outcomes?  
[Michael Wang](#)09:45-10:00 How to prevent operating films, not the patients?  
[Mehmet Zileli](#)

10:00-10:15 Discussion

10:15-10:45 **Coffee break and poster view**



10:45-11:45

**Panel 3: Minimally invasive spine surgery:  
Facts and fictions**

Moderators: [Richard Fessler, TBA](#)



10:45-11:00

Current state of the minimally invasive spine surgery  
[Richard Fessler](#)

11:00-11:15

When and how to make endoscopic decompression  
[Hyeun Sung Kim](#)

11:15-11:30

When and how to make MIS fusion  
[Nikolay Peev](#)

11:30-11:45

Discussion

11:45-12:00

**Presidential Address**  
[Salman Sharif](#)

12:00-13:00

**Luncheon Symposium A** (Industry sponsored)

13:00-14:30

**Plenary Session 2: Revision spine surgery**

Moderators: [Richard Assaker, TBA](#)



13:00-13:15

Current state of revision spine surgery indications  
and techniques  
[Douglas Orr](#)

13:15-13:30

Indications for revision surgery or conservative management in  
implant failure  
[Serdar Kahraman](#)

13:30-13:45

How to prevent and treat proximal junctional kyphosis  
[Michael Wang](#)

13:45-14:00

Adding L5-S1 to fusion: When and how?  
[Abdelfattah Saoud](#)

14:00-14:15

How to improve outcomes in revision spine surgery?  
[Prokopis Annis](#)

14:15-14:30

Discussion

14:30-15:30

**Panel 5: Lumbar degenerative deformity:  
Management options**Moderators: **Douglas Orr, Kostas Zachariou**

14:30-14:45

Current state of lumbar degenerative deformity surgery  
**Richard Assakar**

14:45-15:00

How to manage flat back syndrome and lumbar kyphosis?  
**Vasillis Lykomitros**

15:00-15:15

How to manage degenerative scoliosis?  
**Douglas Orr**

15:15-15:30

Discussion

15:30-16:00

**Coffee break and poster view**

16:00-18:00

**German Friendship Meeting**Moderators: **Joachim Oertel, Markus Arand**

16:00-16:15

Thoracoscopic fusions in thoracic and thoracolumbar  
pathologies  
**Markus Arand**

16:15-16:30

TLIF versus microdecompression: Prospective study with clinical  
outcome parameters on VAS and treadmill  
**Tobias Pitzen**

16:30-16:45

Long term results of MIS Interlaminar dynamic stabilization in  
lumbar spinal stenosis, comparison vs MIS Interlaminar rigid  
fusion vs: Prospective randomized study  
**Sebastian Gitter**

16:45-17:00

Different concepts in spinal endoscopic surgery  
**Joachim Oertel**

17:00-17:15

Indications and techniques for advanced sacro-iliacal screw  
fixation  
**Marcus Richter**

17:15-17:30 Update in modern lumbar fusion surgery  
Ulf Liljenquist

17:30-17:45 Endoscopic Lumbar Spine Surgery  
Benedikt Burkhardt

17:45-18:00 Discussion

20:00-22:30 Award Paper Presentation, Spine Tumor book Launch,  
Hand over the Presidency, Greek Awards

HALL  
ULYSEES08:00-09:00 **Oral presentations 3** (8 min talk, 2 min disc)Moderators: [Aftab Younus](#), [TBA](#)

08:00-08:10 Paper 19

08:10-08:20 Paper 20

08:20-08:30 Paper 21

08:30-08:40 Paper 22

08:40-08:50 Paper 23

08:50-09:00 Paper 24

10:45-11:45 **Panel 4: Metastatic spine tumors: Management options**Moderators: [Ziya Gökaslan](#), [Alex Kelekis](#)10:45-11:00 Current state of the metastatic spine tumor management  
[Ziya Gökaslan](#)11:00-11:15 Personalized oncological therapy for the spine tumor  
surgeon  
[Ganesh M Shankar](#)11:15-11:30 Indication of surgery or radiosurgery  
[Liliana Angelov](#)

11:30-11:45 Discussion

12:00-13:00 **Luncheon Symposium B** (Industry sponsored)13:00-14:30 **Plenary Session 3: Cervical trauma management**Moderators: [Ioannis Polythodorakis](#), [Dimitris Korres](#),13:00-13:15 Anatomical remarks for cervical spine trauma  
[Victor Hugo Perez](#)

- 13:15-13:30      Current state of cervical spine trauma management  
[Joachim Oertel](#)
- 13:30-13:45      How to manage locked cervical facets?  
[Sait Naderi](#)
- 13:45-14:00      Management of odontoid fractures  
[Ioannis Polythodorakis](#)
- 14:00-14:15      Management of hangman fractures  
[Nikolay Peev](#)
- 14:15-14:30      Discussion

14:30-15:30      **Panel 6: Cervical spondylotic myelopathy and OPLL:  
What is new?**  
Moderators: [Liliana Angelov](#), TBA



- 14:30-14:45      Current state of the CSM and OPLL management  
[Sandeep Vaishya](#)
- 14:45-15:00      Surgical management in multilevel CSM  
[Abdul Karim Msaddi](#)
- 15:00-15:15      Surgical indications and techniques for OPLL  
[Amjad Shad](#)
- 15:15-15:30      Discussion

**16:00-18:00 Oral presentations 4 (8 min talk, 2 min discussion)**

Moderators: TBA



16:00-16:10 Paper 25

16:10-16:20 Paper 26

16:20-16:30 Paper 27

16:30-16:40 Paper 28

16:40-16:50 Paper 29

16:50-17:00 Paper 30

17:00-17:10 Paper 31

17:10-17:20 Paper 32

17:20-17:30 Paper 33

17:30-17:40 Paper 34

17:40-17:50 Paper 35

17:50-18:00 Paper 36

**HALL  
CYCLADES**

- 08:00-09:00 **Symposium**  
Moderators: **Nikos Haftouras, TBA**
- 08:00-08:15 Cauda Equina Syndrome: Timing of Surgery as a Matter of Debate  
**Athanasios Maniotis**
- 08:15-08:30 Clinical results in Treatment of Spinal Cord Injuries by transplantation of olfactory mucosa autograft  
**Christos Gogos**
- 08:30-08:45 Anterior craniocervical lesions - The far lateral approach to the junction  
**Stavros Polyzoidis**
- 08:45-09:00 Spinal Cord Gliomas Management: Controversies, Advances and Challenges  
**Eleni Tsianaka**



- 10:45-12:00 **Dynamic Stabilization of the Spine: Indications, Contraindications, Technique**  
Moderators: **Christos Grigoriadis, TBA**
- 10:45-11:00 Interspinous Dynamic Stabilization  
**Aikaterini Karagianni**
- 11:00-11:15 Posterior Transpedicular Dynamic and Hybrid Stabilization  
**Eleni Karakosta**
- 11:15-11:30 Total Disc Replacement in Lumbar Spine  
**Panagiotis Spinos**
- 11:30-11:45 Total Disc Replacement in Cervical Spine  
**Abraham Tsitlakidis**
- 11:45-12:00 Discussion



## 12:00-13:00 Luncheon Symposium A

## 13:00-14:30 Full Endoscopic Session

Moderators: Konstantinos Vlahos, TBA

13:00-13:15 Neuromodulation in Degenerative Spine Disease  
Demetris Peios13:15-13:30 Intra Foraminal approach  
Pavlos Christodoulou13:30-13:45 Trans Laminar approach  
Dimitris Papageorgiou13:45-14:00 Tubular and Endoscopic approaches Comparison for  
Lumbar DDD  
Alex Brodis14:00-14:15 Full Endoscopic Decompression in Spinal Stenosis  
Sebastian Ruetten

14:15-14:30 Discussion

## 14:30-15:30 CranioCervical Junction

Moderators: Ioannis Magras, TBA

14:30-14:45 CranioCervical Junction Disorders  
Nikos Paidakakos14:45-15:00 Fractures of the CranioCervical Junction  
Konstantinos Barkas15:00-15:15 CranioCervical Junction Tumors  
Athanasios Spiliotopoulos15:15-15:30 Lessons Learned during Surgery Lateral Mass AtlantoAxial  
Junction  
Dimos Bouramas



**16:00-17:00 Recurrent lumbar degenerative disk disease (LDDD), treatment strategies**

Moderators: **Konstantinos Fountas, TBA**



**16:00-16:15** Diagnosis and conservative treatment for Recurrent Lumbar DDD  
**Ioannis Nikolaidis**

**16:15-16:30** Surgical Treatment for Recurrent Lumbar Disc Prolapse  
**Alex Bibis**

**16:30-16:45** Adjacent Segment Disease post Lumbar Fusion for Spinal Stenosis  
**Aris Prassas**

**16:45-17:00** Minimal Invasive and Endoscopic Surgery for DDD  
**George Vastardis**

**17:00-18:00 The New Era - Integrating Artificial Intelligence in Spine Surgery**

Moderators: **Panagiotis Zoumpoulis, Vasilios Vougioukas**



**17:00-17:15** Artificial Intelligence in patient pre operative evaluation and prognosis of post operative outcome in spinal surgery  
**Pavlos Angourakis**

**17:15-17:30** Cybernics, IoT/IoHT in functional regeneration post spinal cord injuries  
**Konstantinos Starantzis**

**17:30-17:45** Wireless navigation in complex spine cases: should we trust the machine?  
**Vasilios Vougioukas**

**17:45-18:00** Spinal metastatic disease - impact of artificial intelligence in a global treatment protocol  
**Panagiotis Zoumpoulis**

**18:00 - 19:00 Bulgarian Friendship Meeting**

HALL  
CYCLADES

Moderators: Nikolay Gabrovsky, TBA



- 18:00-18:15     Robotics in neurosurgery  
Peter Ilkov
- 18:15-18:30     3d printing in neurosurgery  
Nikolay Velinov
- 18:30-18:45     MIS 9-year experience - lessons learned  
Nikolay Gabrovsky
- 18:45-19:00     Spinal navigation for challenging vertebroplasties  
Peter Ilkov

**HALL  
PARTHENON**

08:30-10:00

**Panel 7: Osteoporotic vertebral fractures:  
Management options**

Moderators: [Michael Wang](#), [TBA](#)



08:30-08:45

Current state of the osteoporotic vertebral fractures management  
[Jose Antonio Soriano Sanches](#)

08:45-09:00

Conservative management of osteoporotic vertebral fractures  
[Abdul Karim Msaddi](#)

09:00-09:15

When and how vertebral augmentation?  
[Sait Naderi](#)

09:15-09:30

When and how open surgery for osteoporotic vertebral fractures?  
[Rully Hanafy Dahlan](#)

09:30-09:45

How to prevent new osteoporotic fractures?  
[Abdelfattah Saoud](#)

09:45-10:00

Discussion

10:00-10:30

**Coffee break and poster view**

10:30-12:00

**Plenary Session 4: Complication avoidance in spinal  
deformity surgery**

Moderators: [Paulo Pereira](#), [Ioannis Gelalis](#)



10:30-10:45

Current state of complication avoidance in spinal deformity surgery  
[Richard Assakar](#)

10:45-11:00

How to prevent implant failure in deformity surgery?  
[David Marks](#)

11:00-11:15


How to manage a failure in osteoporotic patients?  
[Amjad Shad](#)

11:15-11:30


Can navigation and robotics reduce complications?  
[Joseph S. Butler](#)

11:30-11:45	Special measures in elderly patients <a href="#">Lilyana Angelov</a>
11:45-12:00	How to improve outcomes in spinal deformity surgery? <a href="#">Elias Papadopoulos</a>
12:00-12:15	<b>Closing Ceremony - WS9 CONGRESS</b>

**HALL  
ULYSEES**

- 08:30-10:00 **Panel 8: Craniocervical junction instability: Management options**  
Moderators: [Atul Goel](#), TBA 
- 08:30-08:45 Current state of the craniocervical junction instability management  
[Atul Goel](#)
- 08:45-09:00 Complex Chiari: Should we change our management?  
[Joachim Oertel](#)
- 09:00-09:15 Management of pediatric Chari  
[Guirish Solanki](#)
- 09:15-09:30 Management of rheumatoid basilar invagination  
[Ioannis Polythodorakis](#)
- 09:30-09:45 When to add occiput to fusion?  
[Mehmet Zileli](#)
- 09:45-10:00 Discussion

10:00-10:30 **Coffee break and Poster view**

- 10:30-12:00 **Oral presentations 5** (8 min talk, 2 min discussion)  
Moderators: [Hyeun Sung Kim](#), TBA 
- 10:30-10:40 Paper 37
- 10:40-10:50 Paper 38
- 10:50-11:00 Paper 39
- 11:00-11:10 Paper 40
- 11:10-11:20 Paper 41
- 11:20-11:30 Paper 42
- 11:30-11:40 Paper 43
- 11:40-11:50 Paper 44
- 11:50-12:00 Paper 45

HALL  
CYCLADES08:30-10:00 **Oral presentations 6** (8 min talk, 2 min discussion)

08:30-08:40 Paper 46

08:40-08:50 Paper 47

08:50-09:00 Paper 48

09:00-09:10 Paper 49

09:10-09:20 Paper 50

09:20-09:30 Paper 51

09:30-09:40 Paper 52

09:40-09:50 Paper 53

09:50-10:00 Paper 54

10:00-10:30 **Coffee break and poster view**10:30-12:00 **Eurospine Symposium:  
Lumbar Degenerative Scoliosis. From A to Z.**Moderators: **Thomas Blattert, Stavros Stavridis**10:30-10:45 Introduction and case presentation  
**Stavros Stavridis**10:45-11:00 Surgery avoidance and non-surgical management. When and how?  
**Arion Kapinas**11:00-11:15 Decompression only. When and how?  
**Konstantinos Paterakis**11:15-11:30 Short fusion. When and how?  
**Efthimios Samoladas**11:30-11:45 Long fusion. When and how?  
**Sotiris Papastefanou**

11:45-12:00 Discussion

12:00-13:30

**AOSpine Symposium on primary spine tumors**

Moderators: **Andreas Morakis, Nick Sekouris**



12:00-12:15

Epidemiology and genetic profile of primary spine tumors  
**Parmenion Tsitsopoulos**

12:15-12:30

Interventional radiology for diagnosis and treatment of primary spine tumors  
**Alex Kelekis**

12:30-12:45

Radiosurgery: Indications and limitations for primary spine tumors  
**Vassilis Kouloulis**

12:45-13:00

Surgical strategies and techniques in extradural vertebral primary tumors  
**Spyridon Pneumaticos**

13:00-13:15

Surgical strategies and techniques in intramedullary lesions  
**Marcel Ivanov**

13:15-13:30

Discussion

13:30-14:30

**Lunch Break**

14:30-15:30

**Spondylodiscitis**

Moderators: **Emmanouil Tsafantakis, Achilles Bountis**



14:30-14:45

Epidemiology, clinical presentation and differential diagnosis of spondylodiscitis  
**Konstantinos Zygogiannis**

14:45-15:00

Approaches of microbiologic diagnosis of spondylodiscitis.  
**Andreas Stylianidis**

15:00-15:15

Radiographic evaluation  
**Konstantinos Pikoulas**

15:15-15:30

Conservative and surgical treatment  
**Savvas Moschos**

HALL  
CYCLADES

15:30-16:30

**Debates**

Moderators: George Sapkas - Ioannis Makrygiannakis

**To operate or not in painless drop foot**

15:30-15:45

Not to operate painless drop foot

Savvas Grigoriadis

15:45-16:00

To operate painless drop foot

Balogiannis Ioannis

**To remove implants or not after thoracolumbar fracture fixation**

16:00-16:15

Against removing Implants

Andreas Baikousis

16:15-16:30

In favor to remove implants

Stavros Stavridis



