

Organization



Hellenic
Spine
Society

13th Annual Congress

of the Hellenic Spine Society

& 43rd Symposium

“N. GIANNISTRAS – P. SMYRNIS”

Spine Section of the Hellenic Association
of Orthopaedic Surgery and Traumatology

&
Joint Meeting
with the Serbian Spine Society



**Final
Program**

31 October
3 November
2019 Ioannina, Greece, Hotel Du Lac

Under the auspices



UNIVERSITY OF IOANNINA

www.concopco.com/spine2019

Committees

ORGANIZING COMMITTEE

Chair: I. D. Gelalis

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I. Magras	S. Voulgaris
N. Metaxas	R. Wagner
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D. Papadopoulos	P. E. Zoumpoulis
E. Papadopoulos	

Organization



Hellenic
Spine
Society

Hellenic Spine Society

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Congress Secretariat



CONCO Meetings and Events

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Dear Colleagues

This year the idea of having a joint meeting, bringing Balkan Spine Societies together at the same time and place, originates from the need of 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 Balkan countries will give an exceptional opportunity to exchange knowledge and experiences.

We are certain that this four-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 my honor and pleasure to welcome you all to the **13th Annual Congress of the Hellenic Spine Society & 43rd Symposium “N. Giannestras – P. Smyrnis” & Joint Meeting with the Serbian Spine Society** and the city of Ioannina, the city of Medicine, hoping that you will enjoy your visit through its unique culture, picturesque sights and traditional gastronomy.

My best regards,



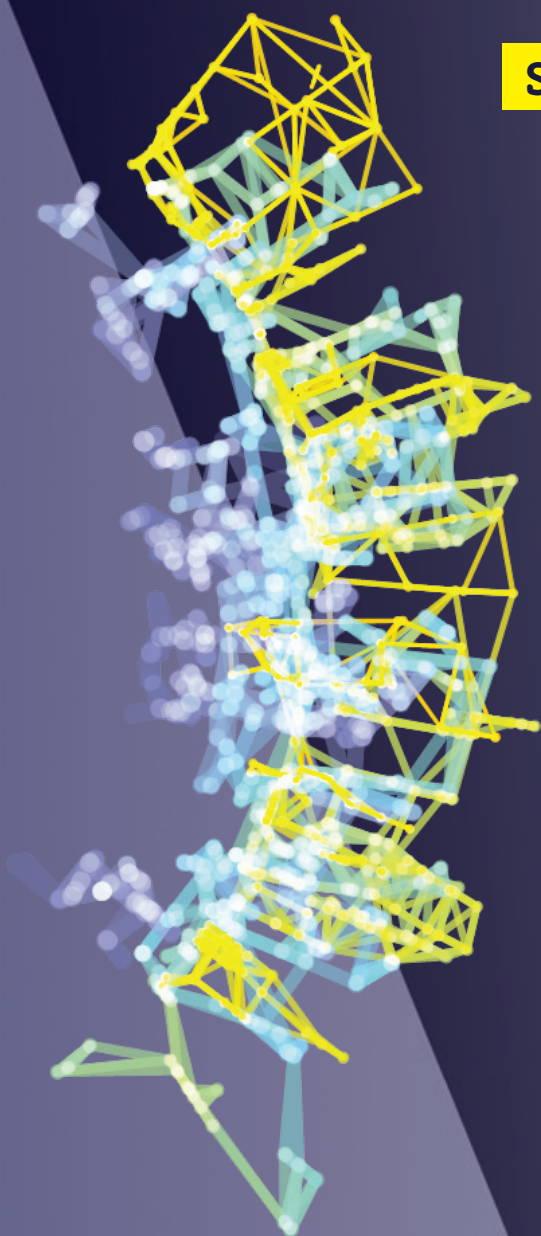
Ioannis D. Gelalis MD, PhD
President of the Hellenic Spine Society

CME Credits

The 13th Annual Congress of the Hellenic Spine Society & 43rd Symposium “N. Giannestras – P. Smyrnis” & Joint Meeting with the Serbian Spine Society, Ioannina, Greece, 31/10/2019-03/11/2019 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **22 European CME credits** (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.



Scientific Program



Scientific Program
Thursday 31 October 2019

14:00 – 16:00 Registration

16:00 – 17:00 Oral Presentations

Chairs: **A. Kapinas, E. Karakosta**



OP 01

EPIDEMIOLOGY AND TREATMENT OF TORTICOLLIS IN THE PAEDIATRIC POPULATION

Antoniou G.¹, Krallis P.², Pilichou A.², Sioutis S.², Anastasopoulos J.²

¹Division of Orthopaedic Surgery, Evangelismos General Hospital, Athens Greece, ²Division of Pediatric Orthopaedic Surgery, Agia Sofia General Children's Hospital, Athens, Greece



OP 02

RELIABILITY OF A GAIT EVALUATION METHOD

Petropoulakos K.¹, Kanellopoulos A.², **Siasios I.³**, Poulis I.¹, Spanos S.^{1,2}

¹Human Performance and Rehabilitation Laboratory, School of Health Sciences, University of Thessaly, Lamia, ²Faculty of Physiotherapy, School of Health Sciences, University of Thessaly, Lamia, ³Department of Neurosurgery, Papageorgiou Hospital, Thessaloniki



OP 03

GRADUALLY INCREASED FREQUENCY OF COMPLICATIONS IN DELAYED DIAGNOSIS IN ANKYLOSING SPONDYLITIS PATIENTS. 10 YEARS EXPERIENCE

Moschos S., Kalampokis A., Xatzikomninos I., **Zisis K.**, Mpountis A., Tsafantakis E.
Spine and Scoliosis Unit, KAT Hospital of Athens



OP 04

SURGICAL TREATMENT AND TECHNICAL DIFFICULTIES FOR DELAYED DIAGNOSIS FRACTURE IN THORACIC AND LUMBAR SPINE. OUR 10 YEARS EXPERIENCE

Moschos S., Kalampokis A., Xatzikomninos I., **Zisis K.**, Mpountis A., Tsafantakis E.
Spine and Scoliosis Unit, KAT Hospital of Athens



OP 05

PERCUTANEOUS KYPHOPLASTY OF OSTEOPOROTIC VERTEBRAL FRACTURES. A PROSPECTIVE STUDY COMPARING THE UNILATERAL AND BILATERAL TRANSPEDICULAR TECHNIQUE

Makridis K., Zourntou S.-E.
IASO THESSALIAS



OP 06a

SPONTANEOUS EPIDURAL HEMATOMA OF CERVICAL SPINE IN SARCOIDOSIS. REPORT OF TWO CASES

Nasios A., Zigouris A., Alexiou G.A., Sotiropoulos A., Metaxas D., Vlachos N., Michos E., Voulgaris S.
Department of Neurosurgery, University Hospital of Ioannina, Ioannina, Greece



OP 06b

DEMOGRAPHICS OF SPINAL CORD TUMOURS: A SINGLE CENTRE EXPERIENCE

Apostolakis S., Filias P., Karagianni A., Mylonakis I., Mitropoulos A., Karakosta E., Vlachos K.

Department of Neurosurgery, "KAT" General Hospital of Attica



Discussion

17:00 – 18:15

Round Table: Spinal Technology Advances

Chair: **D. Fotiadis**



Medical imaging techniques in spinal injury
G. Matsopoulos



Patient rehabilitation using body sensor networks and holograms
T. Exarchos, D. Gatsios



Monitoring of relapses after microdiscectomy of the lumbar spine with the application of sensor technology
G. Papagiannis, A. Triantafyllou



A new system of correcting idiopathic scoliosis without a fusion (ongoing research)
I. Karnezis



Discussion

18:15 – 18:45

Lecture: Evidence Based Medicine – Implications and Limitations

Chair: **I. Gelalis**

Speaker: **M. Tylliannakis**

18:45 – 19:45

Round Table: Spinal Tissue EngineeringChair: **M. Chatzinikolaïdou**Advances in tissue engineered bone regeneration
M. ChatzinikolaïdouNew strategies in intervertebral disc regeneration and repair
K. AlpantakiCellular senescence in the intervertebral disc:
Molecular mechanisms, role in tissue degeneration
and a putative pharmacological target
D. Kletsas

Discussion

19:45 - 20:15

Welcome Addresses

Program review

20:15 - 20:45

Opening LectureFrom Paralysis to Creativity
A. Tsapatakis

21:00

Opening Ceremony

08:30 – 10:00

AO SPINE SESSION: Craniocervical Junction Pathology

Chairs: **S. Papastefanou, A. Brotis**



Congenital anomalies of the Upper Cervical Spine
A. Brotis



Chiari malformation in children - The operative correction
S. Sgouros



Chiari associated scoliosis
S. Papastefanou



Chiari in adults
I. Magras



Intradural extramedullary tumors at CCJ
K. Paterakis



RA in the upper C-Spine. When to operate?
A. Morakis



Discussion

10:00 – 11:00

Round Table: Lower Cervical Spine Pathology

Chairs: **A. Spiliotopoulos, S. Skiada**



Microsurgical anatomy of the cervical spine
I. Balogiannis



Anterior approach in cervical spondylotic myelopathy:
When and how
E. Karakosta



Posterior approach to the cervical spine. Laminectomy vs
Laminoplasty
P. Angourakis



Cervicothoracic junction surgical options and decision making
A. Brotis



Cervical spinal osteotomies. When and How
V. Lykomitros



Discussion

11:00 – 11:30

Debate: Cervical Spine DiscectomyChair: **I. Patsalas**

Stand-alone technique

A. Karagiannidis

Cage and plate fixation

A. Ploumis

Cervical disc arthroplasty

N. Metaxas

Discussion

11:30 – 12:00

Coffee Break

12:00 – 13:00

Round Table: Spinal TumorsChairs: **S. Voulgaris, D. Pachatouridis**

Spinal tumors: Interdisciplinary and diagnostic approach

G. Alexiou

Surgical treatment strategy in primary bone spinal tumors

M. Czyz

Treatment strategy in metastatic bone spinal tumors:

When and how

P. Zoumpoulis

Primary spinal cord tumors

S. Voulgaris

Discussion

13:00 – 13:30

Lecture: En-Block Spondylectomy in Primary Spinal Tumors. Tips and TricksChair: **A. Kapinas**Speaker: **M. Czyz**

13:30 – 14:30 Lunch Break

14:30 – 15:30 Oral Presentations

Chairs: **G. Savvanis, I. Paspatis**



OP 07

HERPES SIMPLEX VIRUS TYPE-1 INFECTION AFFECTS THE EXPRESSION OF EXTRACELLULAR MATRIX COMPONENTS IN HUMAN NUCLEUS PULPOSUS CELLS

Alpantaki K.¹, Zafiropoulos A.², Koutserimpas C.³, Tseliou M.², Vasarmidi E.², Sourvinos G.²

¹Department of Orthopaedics and Traumatology Venizeleion General Hospital Herakleion, Crete,

²Laboratory of Virology, Faculty of Medicine, University of Crete, Heraklion, Crete, Greece, ³Department of Orthopaedics and Traumatology, "251" Hellenic Air Force General Hospital of Athens, Athens, Greece



OP 08

Will be presented as OP25 (see page 17)



OP 09

UP-TO-DATE SURGICAL TREATMENT BY IMPLANTATION IN PYOGENIC SPINAL INFECTIONS. PRESENTATION OF 11 CASES AND REVIEW OF THE LITERATURE

Derdilopoulos A.

Neurosurgical Department, Mediterraneo Hospital Athens



OP 10

GIANT CELL TUMOR OF THE LUMBAR SPINE – ONE CASE REPORT

Vraniskoski T.¹, Damjanovski S.³, Ciriviri J.¹, Kostov H.¹, Talevski D.¹, Lazarevski P.¹, Noveska-Petroska B.², Stojanoski S.⁴

¹ Department for Orthopaedic and Traumatology in CGH "8 Septemvri" Skopje, North Macedonia,

² Department for Histopathology in CGH "8 Septemvri" Skopje, North Macedonia, ³ Department for Neurosurgery in CGH "8 Septemvri" Skopje, North Macedonia, ⁴ Institute of Pathophysiology and Nuclear Medicine, Skopje, North Macedonia



OP 11

INTRAOPERATIVE MONITORING IN INTRAMEDULLARY SPINAL TUMOR SURGERY: A SYSTEMATIC REVIEW AND META-ANALYSIS

Tsakiris C., Siempis T., **Alexiou G.**, Voulgaris S.

Department of Neurosurgery, University Hospital of Ioannina, Ioannina, Greece

Scientific Program
Friday 1 November 2019



OP 12

INTRADURAL SPINAL TUMORS. POSTOPERATIVE OUTCOMES FROM A SINGLE INSTITUTION'S EXPERIENCE

Metaxas D., Sotiropoulos A., Alexiou G., Nasios A., Zigouris A., Drouvis V., Skiada D., Pahatouridis D., Voulgaris S.

Department of Neurosurgery, University Hospital of Ioannina, Ioannina, Greece



OP 13

FINAL TREAT “JOINT’S INFLAMMATION” WITH MULTIZYME SUBLIMATION

Tsagkalis V. A.¹, Magkos K.¹, Karalaïos N.¹, Karamichos K.¹, Fotis T.¹, Paridis D.^{1,2}, Karachalios T.^{1,2}

¹Animus Blue Cross of Larissa, Department of Orthopedics, ²University of Thessaly, School of Medicine, Department of Orthopedics



Discussion

15:30 – 16:45

Round Table: Spinal Infections

Chairs: **A. Tsagkalis, D. Arvanitakis**



Pathophysiology, microbiology and antibiotics in spinal infections
A. Stoupis



Diagnostic algorithm in spinal infections
E. Samoladas



Imaging evaluation in spinal infections
D. Theodorou



Prevention of postoperative infection in patients undergoing spinal surgery
A. Prassas



Indications and surgical treatment of spinal infections
K. Soultanis



Discussion

16:45 – 17:15

Debate: Postoperative Spinal Infection

Chair: **P. Selviarides**



Implant removal
I. Magras



Implant salvage
I. Tsinganos



Discussion

17:15 – 18:00 Round Table: A Legal Approach to Medical Issues

Chair: **E. Tziva**



Medical malpractice liability of the surgeon. Definition, important legal issues, relative insurance

[the lecture will be in Greek]*

E. Tziva



Modern Surgery – A bioethical approach

[the lecture will be in Greek]*

A. Pantzartzidi



Discussion

18:00 – 18:30 Coffee Break

18:30 – 19:30 Round Table: The Serbian Experience - Treatment of Degenerative Spine Disease and Spine Trauma

Chair: **M. Joković**



Osteoporosis and deformity

V. Popovic



Surgery of cervical degenerative disc disease

V. Baščarević



Fractures of the thoracolumbar spine

V. Lalošević



Discussion

19:30 – 20:00 Lecture: Instrumentation in Degenerative Thoracolumbar Spine

Chair: **A. Spiliotopoulos**

Speaker: **M. Joković**

20:00 – 21:00 General Assembly and Elections

08:00 – 09:00

Oral Presentations

Chairs: **D. Makris, C. Zafeiris**

| OP 14

THE ROLE OF SAGITTAL ALIGNMENT PARAMETERS IN THE PATHOGENESIS OF LUMBAR DEGENERATIVE DISEASES. A RETROSPECTIVE, COMPARATIVE STUDY
Bougiouklis D.¹, Patsiaouras T.²

¹ General Hospital of Pyrgos, Orthopaedics Department, Greece, ² General Hospital "Asklepieion" Voulas, Fifth Orthopaedics Department, Athens, Greece



| OP 15

A HYBRID TECHNIQUE FOR TREATING MULTILEVEL CERVICAL RADICULOPATHY OR MYELOPATHY: CERVICAL DISC ARTHROPLASTY COMBINED WITH FUSION

Karakostas C., Stamatopoulos C., Veranis S., Sfikas S., Papageorgiou D., Kapetanakis A.

Department of Neurosurgery, 251 General Airforce Hospital, Athens, Greece



| OP 16

DECOMPRESSION ALONE VERSUS DECOMPRESSION AND FUSION FOR LUMBAR SPINAL STENOSIS WITH AND WITHOUT DEGENERATIVE SPONDYLOLISTHESIS. A RETROSPECTIVE STUDY

Bougiouklis D.¹, Patsiaouras T.²

¹ General Hospital of Pyrgos, Orthopaedics Department, Greece, ² General Hospital "Asklepieion Voulas", Fifth Orthopaedics Department, Athens, Greece



| OP 17

THE SPINAL ARTHRODESIS WITH INTRA-ARTICULAR FAUCET PROSTHESIS AS A METHOD OF SURGICAL MANAGEMENT OF DEGENERATIVE SPINE DISEASE

Lipiridis S., Feloukatzis C., **Stavridi K.**, Sakellaridou M.E., Pliakos N., Papageorgiou N., Chatzidakis E.

Department of Neurosurgery, General Hospital of Nikaia, Piraeus, Greece



| OP 18

VERTEBRAE SHAPING OF THE CERVICOTHORACIC JUNCTION IN WOMEN: THE IMPORTANCE IN ORTHOPEDIC CLINICAL PRACTICE AND IN THE APPLICATION OF SURFACE TOPOGRAPHY

Grivas B.T.¹, Kechagias V.², Mihas K.³

¹Department of Orthopedics & Traumatology "Tzaneio" General Hospital Piraeus, ²Department of Orthopedics, Volos General Hospital, ³ Department of Pathology, General Hospital-Kymi Health Center



| OP 19

CLINICAL OUTCOMES AFTER LUMBAR SPINE MICRODISCECTOMY: A 5-YEAR FOLLOW-UP PROSPECTIVE STUDY IN 100 PATIENTS

Papanastasiou I. E.¹, Theodorou D. J.², Theodorou S. J.³, Gelalis D. I.¹

¹Department of Orthopaedic Surgery, University of Ioannina, School of Medicine, Ioannina, Greece,

²Radiology Department, General Hospital of Ioannina, Greece, ³Radiology Department, University Hospital of Ioannina, Greece



OP 20

POSTOPERATIVE MRI FINDINGS 5 YEARS AFTER LUMBAR MICRODISCECTOMY

Papanastasiou I. E., Theodorou D. J.², Theodorou S. J.³, Gelalis D. I.¹

¹Department of Orthopaedic Surgery, University of Ioannina, School of Medicine, Ioannina, Greece,

²Radiology Department, General Hospital of Ioannina, Greece, ³Radiology Department, University Hospital of Ioannina, Greece



Discussion

09:00 – 10:30

EUROSPINE Session: Low Back Pain - Impact of Hip and SI Joint as Possible Pain Generators

Chair: **S. Stavridis**



SI joint pain. Does this really exist?

A. Kapinas



Conservative management of SI joint pain. How effective is it?

E. Samoladas



Is there a place for operative treatment?

S. Papastefanou



SI joint problems after lumbar spine surgery

S. Stavridis



Sagittal balance changes and pain generators around the hip following THR

J.-C. Le Huec



Discussion

10:30 – 11:00

Lecture: Adult Deformity and Sagittal Balance

Chair: **A. Christodoulou**

Speaker: **J.C. Le Huec**

11:00 – 11:30

Coffee Break

11:30 – 12:30 Round Table: Degenerative Spinal DiseaseChairs: **A. Bountis, S. Boviatsis**Degenerative spondylolisthesis. When to fuse and when not to
N. PaidakakosDegenerative lumbar spinal stenosis. When and how should we operate
T. PatsiaourasAdjacent segment disease. Is it really a fusion disease?
I. GelalisFusion for axial pain. Is it justified?
E. Papadopoulos

Discussion

12:30 – 13:15 Case Discussion: Degenerative Spinal DiseaseChair: **P. Koroivessis****Panel**

N. Valanos

S. Skriviliotakis

A. Spiliotopoulos

K. Kouzelis

13:15 – 13:45 Lecture: C2 pathology. Anterior and Posterior ProceduresChair: **K. Vlachos**Speaker: **D. Bouramas****13:45 – 15:00 Lunch Break**

15:00 – 16:00

Oral Presentations

Chairs: **A. Ploumis, K. Anagnostidis**



OP 21

NON-SURGICAL MANAGEMENT OF IDIOPATHIC EARLY ONSET SCOLIOSIS

Antoniou G.¹, Krallis P.², Pilichou A.², Katsoulas D.², Anastasopoulos J.²

¹Division of Orthopaedic Surgery, Evangelismos General Hospital, Athens Greece, ²Division of Pediatric Orthopaedic Surgery, Agia Sofia General Children's Hospital, Athens, Greece



OP 22

OUTCOMES OF FIVE YEARS OF THE USE OF APIFIX SYSTEM IN ADOLESCENT SCOLIOSIS

Sekouris N., **Psilomanousakis G.**, Bakalakos M., Rozis M., Papoulidis N., Spanos K., Pneumatikos S.

Pediatric Orthopaedic Department, "KAT" General Hospital, Kifissia



OP 23

RISK FACTORS FOR ADJACENT SEGMENT DISEASE AFTER POSTERIOR LUMBAR INTERBODY FUSION AND ITS IMPACT ON CLINICAL OUTCOMES

Bougiouklis D.¹, Patsiaouras T.²

¹General Hospital of Pyrgos, Orthopaedics Department, Greece, ²General Hospital "Asklepieion Voulas", Fifth Orthopaedics Department, Athens, Greece



OP 24

EPIDURAL AND INTRADURAL MIGRATION OF THE SEQUESTERED INTERVERTEBRAL DISC: LOOK OUT FOR THE WANDERING DISC

Theodorou D.J.¹, Theodorou S.J.², Kakitsubata Y.³, Gelalis I.⁴, Miyata Y.³, Shimono T.⁵, Maehara T.⁵

¹Radiology Department General Hospital of Ioannina, Greece, ²Radiology Department, University Hospital of Ioannina, Greece, ³Radiology Department, Miyazaki Konan Hospital, Miyazaki, Japan, ⁴Orthopedic Surgery Clinic, University Hospital of Ioannina, Greece, ⁵Orthopedic Surgery Clinic, Maehara Hospital, Kobayashi, Japan



OP 25

SURGICAL TREATMENT OF ACUTE SPONDYLODISCITIS

Lame A.¹, Grada M.¹, Xhumari A.¹, Rroji A.², Petrela M.¹

¹Department of Neurosurgery, University Hospital Center "Mother Theresa", Tirana, Albania, ²Department of Neuroradiology, University Hospital Center "Mother Theresa", Tirana, Albania



OP 26

INSTABILITY OF THE CRANIOVERTEBRAL JUNCTION AND TREATMENT OUTCOMES IN 10 PATIENTS WITH DOWN'S SYNDROME

Sklavounou M., Bouramas D.

Neurosurgical Department, Athens Bioclinic, Athens Greece



Discussion

16:00 – 17:15

Round Table: Spinal DeformityChairs: **G. Makrygiannakis, P. Tsitsopoulos**

Fusion levels, how to choose upper and lower ends of fusion
I. Siasios



Screw density – How much is really enough? Derotation maneuvers
A. Baikousis



Surgical plan for adult spinal deformity (osteotomy types and indications)
P. Korovessis



Prediction and prevention of PJC in adult deformity
I. Polythodorakis



Principles in the management of neuromuscular scoliosis
P. Krallis



Discussion

17:15 – 17:45

Coffee Break

17:45 – 18:15

Lecture: Endoscopy in Lumbar, Thoracic and Cervical Spine – Pros and ConsChair: **A. Vakis**Speaker: **R. Wagner**

18:15 – 19:15

Round Table: Complications in Spinal Surgery Part IChairs: **T. Apostolou, K. Vlachos**

Iatrogenic spinal cord injuries. Response to intraoperative alerts and postoperative deficits
T. Apostolou



CSF leaks in spinal surgery
K. Paterakis



Neck pain after stand-alone techniques in cervical discectomy
A. Kapetanakis



C5 palsy after cervical spine surgery. Incidence and risk factors
K. Fountas



Discussion

19:15 – 20:15

Round Table: Complications in Spinal Surgery Part II

Chairs: **E. Michos, E. Samoladas**



Pitfalls of relying on navigation for spinal deformity case
G. Kelalis



Loupe magnification vs microscope lumbar discectomy. Is there any difference in complication rates?
S. Skriviliotakis



Endoscopic lumbar discectomy – Limits and complications
P. Christodoulou



Mortality, morbidity and risk stratification in major spinal surgeries
K. Starantzis



Discussion

20:15 – 20:30

Main Congress Summary

G. Sapkas

21:30

Gala Dinner

Scientific Program

Sunday 3 November 2019

09:00 – 12:30

History Taking and Clinical Examination in Spine PathologyChairs: **S. Papastefanou, T. Apostolou, N. Sekouris**

Introduction – The need for training in history training and clinical examination

S. Papastefanou

History Algorithm in spine pathology – Adults

T. Apostolou

History Algorithm in spine pathology – Children & adolescents

N. Sekouris

Pain patterns in different spine pathologies (visceral, vasogenic, neurogenic, spondylogenic, psychogenic) - McNab Criteria

P. Zoumpoulis

Pain patterns in degenerative spine (mechanical, instability, deformity, inflammatory, facet syndrome, undifferentiated)

E. Samoladas

Pain and Disability in everyday life (psychosomatic pain {psychogenic pain and psychogenic differentiation of organic pain} – Behavioral change as a reaction to pain or legal compensation)

J. Papatriantafyllou

10:35 – 10:45

Coffee Break

Clinical Examination Lumbar Spine and SI Joints – Critical analysis of the finding and differential diagnosis

S. Stavridis

Clinical Examination Thoracic Spine - Critical analysis of the finding and differential diagnosis

I. Tsinganos

Clinical Examination Cervical Spine and Upper Limbs - Critical analysis of the finding and differential diagnosis

A. Kapinas

Ordering Lab Tests – Relative diagnostic value (plain x-rays, scintigraphy, blood tests, EMG)

L. G. Morassi

Ordering Lab Tests - Relative diagnostic value (CT & MRI)

D. Theodorou

Questions

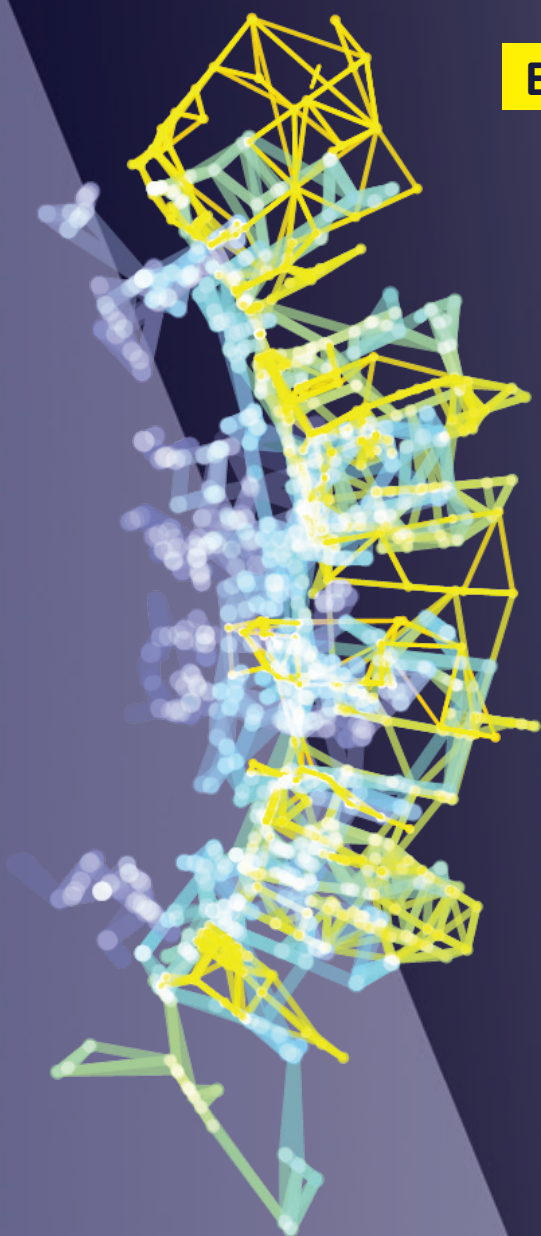
12:30 – 12:40

The need to change the Aim and Content of the "N. Giannestras - P. Smyrnis Symposium" of the HAOST

Conclusions – Closing Remarks

S. Papastefanou

E-Posters



PP
01

LUMBAR SPINE IN CANCER PATIENTS: IS THERE A CORRELATION BETWEEN MAIN DISEASE AND ANTERIOPOSTERIOR LUMBAR DIAMETER? PILOT STUDY

Nikova A.¹, Kyriazi M.¹, Birbilis T.², Ntatsis K.¹

¹ Second Department of Surgical Oncology, Metaxa Cancer Hospital, Piraeus, Greece, ² Department of Neurosurgery, Democritus University of Thrace, Alexandroupolis, Greece

PP
02

COMPARISON OF CERVICAL DISC ARTHROPLASTY AND ANTERIOR CERVICAL DISCECTOMY AND FUSION FOR SINGLE-LEVEL DISC DISEASE

Papafragkos D., Rizos K., Kouzelis K.

Neurosurgery Department, "Thriasio" General Hospital

PP
03

INTRAMEDULLARY MELANOTIC SCHWANNOMA OF THE THORACIC SPINE: REPORT OF A CASE OF AN EXTREMELY RARE ENTITY

Papafragkos D., Kouzelis K.

Neurosurgery Department, "Thriasio" General Hospital

PP
04

THE ROLE OF RETROPHARYNGEAL STEROID APPLICATION ON PREVERTEBRAL SOFT-TISSUE SWELLING FOLLOWING ACDF

Papafragkos D., Christopoulos M., Kouzelis K.

Neurosurgery Department, "Thriasio" General Hospital

PP
05

"SECURITY DILEMMA": SCOLIOSIS IN CANCER PATIENTS. OBSERVATIONAL PILOT STUDY

Nikova A.¹, Chirakis E.¹, Kyriazi M.¹, Birbilis T.², Ntatsis K.¹

¹ Second Department of Surgical Oncology, Metaxa Cancer Hospital, Piraeus, Greece, ² Department of Neurosurgery, Democritus University of Thrace, Alexandroupolis, Greece

PP
06

TRANSIENT ANISOCORIA AFTER POSTERIOR SPINE SURGERY. CASE PRESENTATION AND LITERATURE REVIEW

Papaioannou I.¹, **Repantis T.**¹, Xristopoulos K.², Baikousis A.¹, Kokinis K.³, Korovessis P.¹

¹ Orthopaedic Department of General Hospital Patras, Greece, ² Department of Ophthalmology, General Hospital of Patras, Greece, ³ Department of Anesthesiology, General Hospital of Patras, Greece

PP
07

MR DISCOGRAPHY FOR THE DYNAMIC DETECTION OF ANNULAR TEARS

Theodorou D.J.¹, Theodorou S.J.², Kakitsubata Y.³, Trudell D.⁴, Clopton P.⁴, Donich A.⁴, Lektrakul N.⁴, Resnick D.⁴

¹ Radiology Department, General Hospital of Ioannina, Greece, ² Radiology Department, University Hospital of Ioannina, Greece, ³ Radiology Department, Miyazaki Konan Hospital, Miyazaki, Japan, ⁴ Departments of Radiology & Research Facility, University of California San Diego, USA

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SPINAL SUBARACHNOID HEMORRHAGE AND MULTISEGMENTAL SUBDURAL HEMATOMA: LOW BACK PAIN ALERTING FOR EMERGENCY NEUROIMAGING

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POSTERIOR CERVICAL LAMINOPLASTY FOR RESECTION INTRADURAL EXTRAMEDULLARY TUMOR: A CASE REPORT

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BRACING IN THE TREATMENT OF ADOLESCENT IDIOPATHIC SCOLIOSIS: PREDICTIVE FACTORS AND EVIDENCE TO DATE

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THE THREE YEARS' EXPERIENCE USING THE MILADI'S SYSTEM FOR NEUROMUSCULAR SCOLIOSIS

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ROD MIGRATION INTO THE SPINAL CANAL IN EARLY ONSET SCOLIOSIS

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SURGICAL TREATMENT OF EARLY ONSET SCOLIOSIS WITH THE GROWING INDUCED SYSTEM SHILLA

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INTRAOPERATIVE LOSS OF MOTOR EVOKED POTENTIALS FOLLOWING PRONE POSITIONING

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IN BRACE CORRECTION EFFECTIVENESS ON COBB ANGLE OF SLC SCOLIOSIS BRACE IN THORACOLUMBAR SCOLIOSIS: PRELIMINARY RESULTS

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COST UTILITY ANALYSIS OF SPINAL DISEASES

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SURGICAL TREATMENT OF SPINAL DAVFs THROUGH A SINGLE LEVEL HEMILAMINECTOMY – SHOULD IT BE THE TREATMENT OF CHOICE?

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SPINAL SCHWANNOMAS: REVIEW OF 18 CASES

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WHICH IS THE BEST TREATMENT FOR TERMINAL SYRINGOMYELIA, PERCUTANEOUS DRAINAGE OR OPEN SURGERY?

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TRANSIENT HEMIPLEGIA AS PRESENTING SIGN OF SPONTANEOUS CERVICAL EPIDURAL HEMATOMA: REPORT OF 2 CASES

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TRAUMATIC LUMBAR SPINAL SUBDURAL HEMATOMA: A CASE REPORT

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DAILY REHABILITATION GAIN OF SPINAL CORD INJURY PATIENTS (LENGTH OF STAY EFFICIENCY)

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EFFICACY OF ROBOTIC ASSISTANCE OF WALKING IN SCI PATIENTS, AS MEASURED BY FUNCTIONAL INDEPENDENCE MEASURE (FIM)

Bakas E., Vorniotakis P.

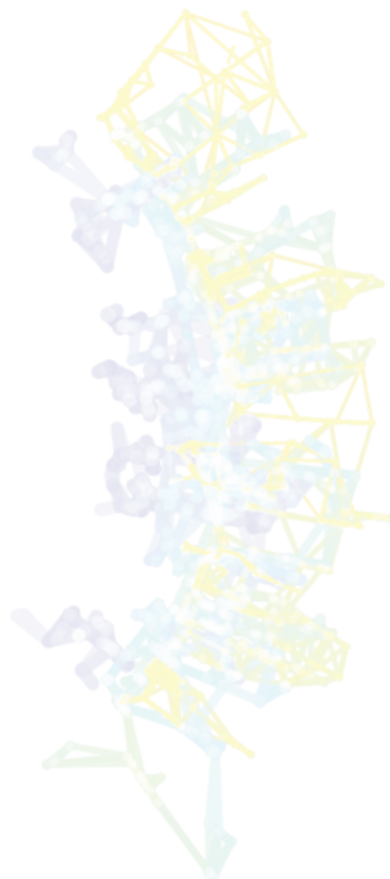
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REHABILITATION PROGRAM BENEFIT IN SPINAL CORD INJURED PATIENTS AS ESTIMATED BY FUNCTIONAL INDEPENDENCE MEASURE (FIM)

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