



# SPINE SURGERY IN XXI CENTURY

current concept, controversies, perspectives

## SCIENTIFIC PROGRAM



October 4-7  
2018

Niš, Serbia

Venue:  
Tami Residence  
Hotel



# SPINE SURGERY IN XXI CENTURY

current concept, controversies, perspectives

## SCIENTIFIC PROGRAM

Friday, October 5<sup>th</sup>, 2018

HALL 1

07.30 Registration

### OPENING CEREMONY

08.00-09.00 **Welcome Addresses**

- Prof. Dr Lukas Rasulic, Co-President of the Congress, SNSS President, SeENS President
- President of the Republic of Serbia
- Ministry of Health of the Republic of Serbia
- H.E. Mr. Alexander Chepurin, Ambassador Extraordinary and Plenipotentiary, Embassy of the Russian Federation
- Prof. Dr Nikolay Konovalov, Co-President of the Congress
- Prof. dr Alexander Potapov, Honorary President of the Congress, Director of N. N. Burdenko Neurosurgical Institute
- Prof. Dr Alexander Konovalov, Honorary President of the Congress, President of the Association of Neurosurgeons of Russia
- Prof. Dr Mehmet Zileli, Chair of the WFNS Spine Committee
- Prof. Dr Artem Gushcha, President of the Association of Spinal Surgeons of Russia
- Prof. Dr Kresimir Rotim, Honorary President of the Congress, SeENS Honorary President, President of the Croatian Society for Spine Surgery
- Prof. Dr Zdeslav Milinkovic, Spinal Center Milinkovic, Founding member and First President of Spine Experts Group
- Prof. Dr Kenan Arnautovic, AANS, Chair, International Collaboration Committee
- Acad. Vladimir Kostic, President, Serbian Academy of Sciences and Arts
- Prof. Dr Dragan Antic, Rector of the University of Nis
- Prof. Dr Dobrila Stankovic Djordjevic, Dean of the Faculty of Medicine, University of Nis
- Prof. Dr Zoran Radovanovic, Director of the Clinical Center of Nis
- Prof. Dr Nebojsa Stojanovic, President of the International Organizing Committee
- Mr. Darko Bulatovic, Mayor of Nis

### SNSS Tribute: MILIVOJE KOSTIC LECTURE 1

09.00-09.30 **Where Will We Be Tomorrow: The Future of Minimally Invasive Surgery**

Kevin Foley, USA

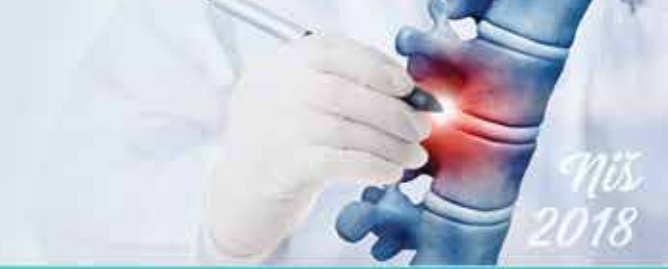
*INTRO Lukas Rasulic*

### SNSS Tribute: MADJID SAMII LECTURE

09.30-10.00 **Problems and Solutions in Geriatric Spine Surgery**

Mehmet Zileli, Turkey

*INTRO Lukas Rasulic*



## PLENARY SESSION 1

Moderators: Lukas Rasulic, Nikolay Konovalov, Kresimir Rotim

HALL 1

- 10.00-10.20 **Tumor Surgery of Craniovertebral Junction**  
Madjid Samii, Germany
- 10.20-10.40 **Lumbar dynamic pedicle-based stabilization versus fusion in degenerative disease: preliminary results of the DYNORFUSE prospective randomized trial**  
Bernhard Meyer et al., Germany
- 10.40-11.00 **Surgical treatment of intramedullary tumors: experience of more than 700 cases**  
Nikolay Konovalov, Russia
- 11.00-11.20 **Spine Surgery Today: Appropriate or Over Indication?**  
Francesco Tomasello, Italy
- 11.20-11.40 **Spinal Surgery in Russia - Trends, Highlights, Outstanding Issues**  
Artem Gushcha, Russia
- 11.40-12.00 *Coffee break*

## MAIN SCIENTIFIC SESSION 1: DEGENERATIVE SPINE

Moderators: Mehmet Zileli, Artem Gushcha, Petar Vulekovic

HALL 1

- 12.00-12.15 **KEY NOTE LECTURE**  
**Cervical myelopathy - new insights into pathophysiology and treatment**  
Peter Vajkoczy, Germany
- 12.15-12.30 **KEY NOTE LECTURE**  
**Retrospective single-surgeon study of 1,123 consecutive cases of anterior cervical discectomy and fusion: A comparison of clinical, outcome parameters and costs between outpatient and inpatient surgery groups with a literature review**  
Kenan Arnautovic, USA
- 12.30-12.45 **KEY NOTE LECTURE**  
**Surgical Management of Intradural tumors at the craniovertebral junction region**  
Ioan Stefan Florian et al., Romania
- 12.45-13.00 **Electrophysiological Monitoring in Spinal Disease**  
Francesco Sala, Italy
- 13.00-13.15 **Surgical Outcome Prognosis for Degenerative Lumbar Spine Disease**  
Anton Nazarenko, Russia
- 13.15-13.30 **Three and Four Level ACDF: How I Do It**  
Ibrahim Omerhodzic et al., Bosnia and Herzegovina
- 13.30-14.15 *Lunch*
- 13.30-14.15 *Commercial Symposium HAAG STREIGHT SURGICAL - Exhibition Area*
- 13.30-14.15 **Serbian Neurosurgical Society EC Meeting - Board room**

# SPINE SURGERY IN XXI CENTURY

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## MAIN SCIENTIFIC SESSION 2: DEGENERATIVE SPINE

Moderators: Bernhard Meyer, Alberto Delitala, Ioan Stefan Florian

HALL 1

- 14.15-14.30 **KEY NOTE LECTURE**  
**The anterior unkoforaminotomy in treatment of patients with radicular pain caused by lateral stenosis at degenerative cervical spine pathology**  
Vladimir Klimov et al., Russia
- 14.30-14.45 **KEY NOTE LECTURE**  
**Experiences with „percutaneous laser disc decompression“ by a diode laser - a minimal invasive outpatient treatment for contained disc herniations**  
Gregor Kienbacher, Austria
- 14.45-15.00 **Intraoperative neurophysiological monitoring in degenerative cervical spine surgery**  
Petar Vulekovic, Serbia
- 15.00-15.15 **Degenerative lumbar spine: protocols and when the unusual approaches are better**  
Dmitry Dzukaev, Russia
- 15.15-15.30 **Failed back surgery**  
Tomislav Cigic, Serbia
- 15.30-15.45 **New concepts for using the arthroplasty in the degenerative changes of the cervical spine**  
Matjaz Vorsic et al., Slovenia
- 15.45-16.00 **Reconstructive surgery of the cervical spine - Indications**  
Nebojsa Stojanovic, Serbia
- 16.00-16.15 **My Experience with Cervical Spine Surgery and Stabilization**  
Venko Filipce, Macedonia
- 16.15-16.30 **Lumbar spine stenosis: prevalence and morphology of ossification of the ligamentum flavum**  
Vladimir Sorokovikov et al., Russia
- 16.30-16.45 *Discussion*
- 16.45-17.00 *Coffee break*



## ORAL PRESENTATIONS 1

Moderators: Dmitry Dzukaev, Miroslav Vukic, Goran Pavlicevic

HALL 1

- 17.00-17.10 OP1. **Dr. Vladimir Petrovich Pasek - the first registrated neurosurgeon?**  
Milan Spaic, Serbia
- 17.10-17.20 OP2. **Degenerative lumbar spine**  
Vesna Nikolov, Serbia
- 17.20-17.30 OP3. **Dynamic Stabilization with Polyetheretherketone (PEEK) Rods: Mid-term Results (5 Years) in Lumbar Spine Degenerative Diseases in a Comprehensive Patients Series-Radiological and Clinical Assessment**  
Ahmet Öğrenci, Turkey
- 17.30-17.40 OP4. **Cervical Radiculopathy vs. Carpal Tunnel Syndrome - the shared theritory**  
Miljan Bulatovic et al., Serbia
- 17.40-17.50 OP5. **Iatrogenic injuries of the paravertebral vessels at operative treatment of the lumbal vertebra disc hernias - presentation of the two cases**  
Andrej Prlja, Slovenia
- 17.50- 18.00 OP6. **Anesthesia in spine surgery with neuromonitoring: current concept and our experience**  
Sanja Maricic Prijic et al., Serbia
- 18.00-18.10 OP7. **Anterior sacral meningocele in children - diagnostic and therapeutic strategies**  
Mirjana Raicevic et al., Serbia
- 18.10-18.20 OP8. **Does transvers diametere of the cervical spinal canal play a role on CSM development?**  
Murat Sayin, Turkey
- 18.20-18.30 OP9. **Pedicle screw fixation in osteoporotic fractures**  
Mohamed Mohi Eldin, Egypt
- 18.30-18.40 OP10. **Our experience with Caspar microsurgical discectomy**  
Tomaz Velnar et al., Slovenia
- 18.40-18.50 OP11. **Prognostic value of intraoperative monitoring in spinal surgery**  
Boban Joksimovic et al., Serbia
- 18.50-19.00 *Discussion*
- 08.00 -19.00 **E-POSTER PRESENTATION**  
Area for Poster presentation
- 20.00-01.00 *Gala dinner*

# SPINE SURGERY IN XXI CENTURY

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## MAIN SCIENTIFIC SESSION 3: SPINE TRAUMA AND INFECTIONS

Moderators: Vadim Manukovsky, Ljubodrag Minic, Fatos Ollashi

HALL 2

- 12.00-12.15 **KEY NOTE LECTURE**  
**Current concept of chronic spondylitis**  
Aleksandr Mushkin et al., Russia
- 12.15-12.30 **KEY NOTE LECTURE**  
**Modification of short-segment fixation with pedicle screws in fracture site without fusion for thoracolumbar fractures**  
Vladimir Lalošević et al., Serbia
- 12.30-12.45 **KEY NOTE LECTURE**  
**Adverse effects of steroid therapy in acute spinal cord injury management**  
Victor Rerikh et al., Russia
- 12.45-13.00 **MIS instrumentation in trauma**  
Nikolay Gabrovsky et al., Bulgaria
- 13.00-13.15 **Early surgery and instrumentation in cervical spine tuberculosis - rationale and decision making**  
Harjinder S. Bhatia et al., India
- 13.15 - 13.30 **Unilateral recurrent lumboischialgia of unknown cause - a diagnostic and therapeutic challenge**  
Ivan Stefanović, Serbia
- 13.30-14.15 *Lunch*
- 13.30-14.15 *Commercial Symposium HAAG STREIGHT SURGICAL, Exhibition Area*
- 13.30-14.15 *Russian Neurosurgical Society EC and WFNS Spine Committee Business Meeting - Residence Room*

## MAIN SCIENTIFIC SESSION 4: BASIC SCIENCE AND SPINE TUMORS

Moderators: Sergey Kolesov, Andreas Demetriades, Stefano Ferraresi

HALL 2

- 14.15-14.30 **KEY NOTE LECTURE**  
**Treatment of chronic pain after transpedicular fixation**  
Tito Perilla, Colombia
- 14.30-14.45 **KEY NOTE LECTURE**  
**Complications in spine surgery**  
Keki Turel, India
- 14.45-15.00 **Spine and spinal cord disorders: advanced treatment concept**  
Dmitry Asyutin, Russia
- 15.00-15.15 **Endovascular treatment of spinal AVMs and vascular tumors**  
Teodor Tissen, Russia
- 15.15-15.30 **Radiosurgery For Spinal Metastasis**  
Selçuk Peker, Turkey
- 15.30-15.45 **Chronic spinal cord stimulation in the treatment of failed back surgery syndrome**  
Emil Isagulyan et al., Russia
- 15.45-16.00 **Intraoperative neurophysiological monitoring for spinal cord tumors surgery**  
Slavko Djurasković et al., Montenegro

- 16.00-16.15 **Results of surgical treatment of cavernous malformations of the spinal cord**  
Bahramkhon Zakirov et al., Russia
- 16.15-16.30 **Spinal cord tumors in Montenegro**  
Novak Lakicevic, Montenegro
- 16.30-16.45 *Discussion*
- 16.45-17.00 *Coffee break*

## ORAL PRESENTATIONS 2

Moderators: Sergey Mlyavykh, Novak Lakicevic, Venko Filipce

## HALL 2

- 17.00-17.10 **OP12. Cervical spinal stenosis treatment by interlaminar full endoscopy**  
Marcio Ramalho da Cunha et al., Brazil
- 17.10-17.20 **OP13. Severity of the spinal stenosis - a novel classification method**  
Milenko Stanic et al., Serbia
- 17.20-17.30 **OP14. Economic costs in discitis treatment**  
Mustafa Ogden, Turkey
- 17.30 - 17.40 **OP15. Transcorporeal anterior cervical microforaminotomy; a motion preserving surgery in pure brachialgia**  
Moshiur Rahman, Bangladesh
- 17.40-17.50 **OP16. Role of the O-arm and neuronavigation in the management of complex spine surgery cases**  
Walid Attia et al., Saudi Arabia
- 17.50-18.00 **OP17. Predictors of surgical outcome in cervical spondylotic myelopathy**  
Drazen Ivetic, Serbia
- 18.00-18.10 **OP18. Use of nitinol rods for fixation of the lumbar spine (prospective multi-center study)**  
Kazmin Arkadii et al., Russia
- 18.10-18.20 **OP19. The role of endoscopy in treating spinal stenosis**  
Miljan Mihajlovic et al., Serbia
- 18.20-18.30 **OP20. Age-related prevalence of degenerative cervical pathology**  
Niamen Patrice Koffi et al., Morocco
- 18.30-18.40 **OP21. Factors affecting outcome after lumbar disc surgery - How close are we to good outcome prediction?**  
Mladen Karan et al., Serbia
- 18.40-18.50 **OP22. Surgical treatment of thoracic disc herniation - case report**  
Bojan Jelaca et al., Serbia
- 18.50-19.00 *Discussion*
- 08.00 -19.00 **E-POSTER PRESENTATION**  
Area for Poster presentation
- 20.00-01.00 *Gala dinner*



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## Saturday, October 6<sup>th</sup>, 2018

07.30 Registration

### PLENARY SESSION 2

Moderators: Madjid Samii, Francesco Tomasello, Andrey Grin

HALL 1

08.00-08.20 **Adult Scoliosis and Complication Management**  
Jesus Lafuente, Spain

08.20-08.40 **Microsurgical education today and the role of neurosurgical organizations**  
Torstein Meling, Norway

08.40-09.00 **From simulation through cadaver training to patient care:  
a safe way to educate spinal surgeons**  
Karl Schaller, Switzerland

09.00-09.20 **Surgical Treatment of Cervical Spine Trauma**  
Vadim Manukovsky, Russia

09.20-09.40 **Occipito-Cervical Fixation: Evolution and Current Concepts**  
Miguel Arraez Sanchez, Spain

### SNSS Tribute: MILIVOJE KOSTIC LECTURE 2

09.40-10.10 **Low-grade infection in spinal instrumentation: is this the real cause of screw loosening?**  
Bernhard Meyer, Germany  
*INTRO* Lukas Rasulic

### SPECIAL GUEST LECTURE

10.10-10.30 **Computational modeling of spine and spinal implants**  
Nenad Filipovic, Serbia  
*INTRO* Lukas Rasulic

10.30-10.45 *Coffee break*

### MAIN SCIENTIFIC SESSION 5: BASIC SCIENCE AND NEW TECHNOLOGIES

Moderators: Miguel Arraez Sanchez, Vladimir Klimov, Karl Schaller

HALL 1

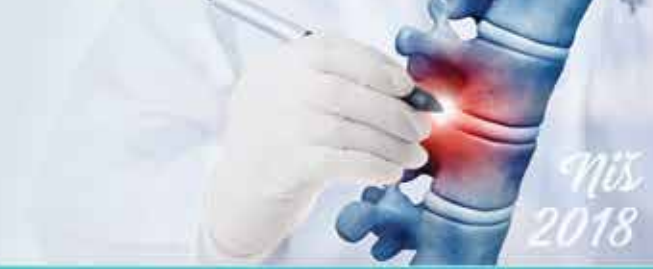
10.45-11.00 **KEY NOTE LECTURE**  
**Image guidance for cervical spine surgery. Is there an added value?**  
**Experience of 170 cases**  
John Duff, Switzerland

11.00-11.15 **KEY NOTE LECTURE**  
**New technologies for the treatment of degenerative scoliosis**  
Sergey Kolesov et al., Russia

11.15-11.30 **Adverse Events Related to Peripheral Nerves Following Spine Surgery-Complications,  
Sequellae, Mistreatment: Avoidance, Treatment Modalities and Outcome**  
Lukas Rasulic, Serbia

11.30-11.45 **Cervical arthroplasty with discover; long term results and influence  
on the cervical biomechanics**  
Miroslav Vukic et al., Croatia





- 11.45-12.00 **Spinal navigation: past, present and future**  
Francesco Costa et al., Italy
- 12.00-12.15 **MISS (minimally invasive spinal surgery, the concept. MISS is not a miss-surgery)**  
Nikolay Peev, Ireland
- 12.15-12.30 **The new philosophy of spine surgery in spinal cords or nerve root's compressive syndromes**  
Michalakis Spyrou et al., Cyprus
- 12.30-12.45 **A neuro-fuzzy model for supporting the diagnosis of lumbar disc herniation**  
Miodrag Peulic, Serbia
- 12.45-13.00 Discussion

13.00-13.30 *Lunch*

13.00-13.30 *Commercial Symposium KOC UNIVERSITY, Exhibition Area*

13.00-13.30 **Southeast Europe Neurosurgical Society EC Business Meeting - Board Room**

13.30-14.15 **RAPID CROSSFIRE SESSION 1**  
**COMPLEX AND COMPLICATED CASES - OPEN ACCESS PANEL SESSION**  
**Moderators: Mehmet Zileli, Karl Schaller, Jesus Lafuente, Enrique Osorio-Fonseca, Nebojsa Stojanovic**

**MAIN SCIENTIFIC SESSION 6: SPINE TRAUMA**  
**Moderators: Torstein Meling, Aleksandr Mushkin, Nebojsa Stojanovic**

**HALL 1**

- 14.15-14.30 **KEY NOTE LECTURE**  
**Management of fractures in ankylosing spondylitis**  
Mehmet Zileli, Turkey
- 14.30-14.45 **KEY NOTE LECTURE**  
**Minimal invasive surgery in spine trauma**  
Tiberiu Maior, Romania
- 14.45-15.00 **CSF leakage following spine surgery: prevention and management**  
İhsan Solaroğlu, Turkey
- 15.00-15.15 **War injuries of the spinal cord**  
Ljubodrag Minic, Serbia
- 15.15-15.30 **Cervical spine fracture**  
Fatos Olldash, Albania
- 15.30-15.45 **Trauma of the spinal column - what should be seen by a neuroradiologist in order for the neurosurgeon to do what needs to be done**  
Zoran Radovanovic, Serbia
- 15.45-16.00 **Central cord syndrome**  
Panagiotis Selviaridis, Greece
- 16.00-16.15 **Spine injuries and disorders - emergency centre as a crossroad for right treatment**  
Miljan Jovic et al., Serbia
- 16.15-16.30 *Discussion*
- 16.30-16.45 *Coffee break*

# SPINE SURGERY IN XXI CENTURY

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## MAIN SCIENTIFIC SESSION 7: SPINE TUMORS

Moderators: John Duff, Panagiotis Selviaridis, Tomislav Cigic

HALL 1

- 16.45-17.00 KEY NOTE LECTURE**  
**Surgery around the neuroforamen. Indications and technique for dumbbell pathology in the cervical area**  
Stefano Ferraresi, Italy
- 17.00-17.15 KEY NOTE LECTURE**  
**Results of surgical treatment of extramedullary spinal cord tumors**  
Roman Onoprienko, Russia
- 17.15-17.30 **Spinal AVM**  
Mohammad Al-Olama, UAE
- 17.30-17.45 **Intradural Spinal Tumors: Surgical Considerations and Institutional Experience**  
Tomislav Sajko, Croatia
- 17.45-18.00 **Extent of surgical resection of malignant astrocytoma of the spinal cord**  
Vincenzo Paterno, Germany
- 18.00-18.15 **Spinal Schwannomatosis**  
Martin Smrcka, Czech Republic
- 18.15-18.30 **Spinal Tumours Treatment-Our Experience**  
Rasim Skomorac et al., Bosnia and Herzegovina
- 18.30-18.45 **Spine Surgery in XXI century - Anesthesiologist Point of view**  
Inga Mladic Batinica, Croatia
- 18.45-19.00 **Intradural Spine Tumor Surgery-Institutional Experience**  
Djula Djilvesi et al., Serbia
- 19.00-19.15 *Discussion*

**08.00-19.15 E-POSTER PRESENTATION**  
Area for Poster presentation

**20.30-01.00 Traditional Serbian Dinner**



## MAIN SCIENTIFIC SESSION 8: MINIMAL INVASIVE SPINE SURGERY

Moderators: Sergey Mlyavykh, Marko Markovic, Mitja Benedicic

HALL 2

- 10.45-11.00 KEY NOTE LECTURE**  
**Endoscopic approaches in lumbar degenerative diseases**  
Enrique Osorio-Fonseca et al., Colombia
- 11.00-11.15 KEY NOTE LECTURE**  
**Preliminary experience with percutaneous cervical arthrodesis and fusion**  
Giovanni Broggi, Italy
- 11.15-11.30 Percutaneous endoscopic transforaminal approach for foraminal and extraforaminal disc herniations: 5-year experience**  
Natale Francaviglia et al., Italy
- 11.30-11.45 Full-endoscopic system utilization for decompression of nerve structures on lumbar level of the spine. first experience report**  
Vasily Korolishin, Russia
- 11.45-12.00 Lumbar angioliipoma removal via percutaneous endoscopic interlaminar approach**  
Marcio Ramalho da Cunha et al., Brasil
- 12.00-12.15 Mini-invasive and innovative technologies in the surgery of the pathological processes of the skull base and the craniovertebral junction**  
Alexey Shkarubo, Russia
- 12.15-12.30 Minimally invasive approach for surgical treatment of craniovertebral junction meningiomas**  
Stanislav Kaprovoy et al., Russia
- 12.30-12.45 CT accuracy of percutaneous vs open and manually-registered pedicle screw techniques: a single center non-randomized clinical trial**  
Alexandros Brotis et al., Greece
- 12.45-13.00 Discussion*
- 13.00-13.30 Lunch*

*13.00-13.30 Commercial Symposium KOC UNIVERSITY, Exhibition Area*

## 13.30-14.15 RAPID CROSSFIRE SESSION 2

COMPLEX AND COMPLICATED CASES - OPEN ACCESS PANEL SESSION

Moderators: Bernhard Meyer, Nikolay Konovalov, Kevin Foley, John Duff, Peter Banczerowski

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## MAIN SCIENTIFIC SESSION 9: DEGENERATIVE SPINE

Moderators: Kenan Arnautovic, Dmitry Dzukaev, Yavor Enchev

HALL 2

- 14.15-14.30 KEY NOTE LECTURE**  
**Lumbar disc herniation: is microsurgery exceeded?**  
Alberto Delitala, Italy
- 14.30-14.45 KEY NOTE LECTURE**  
**Degenerative low and high grade spondylolisthesis**  
Andreas Demetriades, UK
- 14.45-15.00 **Lumbar Spine Instrumentation**  
Milos Jokovic, Serbia
- 15.00-15.15 **Different Microsurgical Non-fusion Techniques for Cervical Radiculopathy**  
Yury Shulev et al., Russia
- 15.15-15.30 **Anterior cervical corpectomy in the treatment of degenerative and tumorous processes of the cervical spine**  
Mitja Benedicic, Slovenia
- 15.30-15.45 **Anterior cervical approach for the treatment of cervical myelopathy**  
Danilo Radulovic, Serbia
- 15.45-16.00 **Biological nucleoplasty - emerging treatment**  
Vladimir Papic et al., Serbia
- 16.00-16.15 **Central Cord Syndrome - Surgical Treatment Nuances**  
Nenad Novakovic et al., Serbia
- 16.15-16.30 *Discussion*
- 16.30-16.45 *Coffee break*



## MAIN SCIENTIFIC SESSION 10: GROWING SPINE AND ADULT DEFORMITIES

Moderators: Aleksandr Mushkin, Bruno Splavski, Zdeslav Milinkovic

HALL 2

- 16.45-17.00 KEY NOTE LECTURE**  
**Surgical treatment of adolescent idiopathic scoliosis**  
Norberto Ventura, Spain
- 17.00-17.15 KEY NOTE LECTURE**  
**Sagittal balance in spinal neurosurgery**  
Evgeny Brinyuk, Russia
- 17.15-17.30 KEY NOTE LECTURE**  
**Accurate Placement of Percutaneous Pedicle Screws without the Use of Neuronavigation/O-arm Technology and Reduction-fixation of Lumbar Spondylolisthesis by Percutaneous Pedicle Screws and a Minimal Access approach**  
Sujoy Sanyal, India
- 17.30-17.45 Treatment of the degenerative diseases of vertebral column**  
Branko Djurovic, Serbia
- 17.45 -18.00 Comparative analysis of surgical treatment of patients with congenital thoracic spine deformities using thoracic expansion devices and spinal correction and fusion**  
Sergey Vissarionov, Russia
- 18.00-18.15 Segmental stabilisation of pathologic fractures of thoracolumbar spine**  
Stanko Milickovic, Serbia
- 18.15-18.30 Post operative pain in lumbar degenerative spine surgery**  
Said Ait Benali, Morocco
- 18.30-18.45 Modern treatment options for degenerative scoliosis**  
Goran Pavlicevic, Serbia
- 18.45-19.00 Surgical treatment of single level degenerative cervical disc disease treated with ACDFP**  
Aleksandar Caparoski et al., Macedonia
- 19.00-19.15 Discussion**
- 08.00-19.15 E-POSTER PRESENTATION**  
Area for Poster presentation
- 17.00-18.00 E-POSTER EVALUATION AND DISCUSSION SESSION**  
Area for Poster presentation  
Moderators: Martin Smrcka, Anton Nazarenko, Vladimir Papic
- 20.30-01.00 Traditional Serbian Dinner**

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Sunday, October 7<sup>th</sup>, 2018

07.30 Registration

## PLENARY SESSION 3

Moderators: : Dmitry Ptashnikov, Peter Banczerowski, Roberto Delfini

HALL 1

08.00-08.20 **Outpatient Cervical Spine Surgery**  
Eirik Helseth, Norway

08.20-08.40 **The videoendoscopic techniques in the surgical treatment of patients with thoracolumbar trauma**  
Andrey Grin et al., Russia

08.40-09.00 **Current concept in minimal invasive spine surgery**  
Kresimir Rotim, Croatia

09.00-09.20 **The correction of degenerative scoliosis of adults with the use of minimally invasive technologies (LLIF, ALIF, MIS posterior fixation)**  
Vladimir Klimov et al., Russia

09.20-09.40 **Surgical management of the vascular malformations of the spinal cord**  
Marcel Ivanov, UK

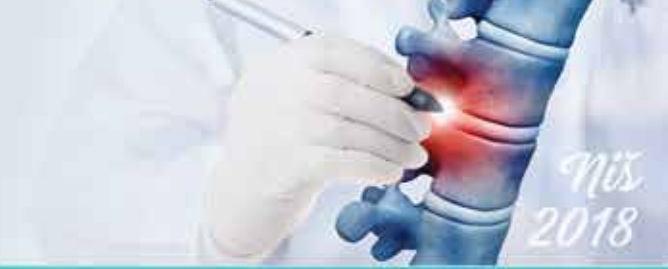
09.40-10.00 **Multilevel VCR in the treatment of complex spinal deformities in adults**  
Dmitry Ptashnikov, Russia

## SNSS Tribute: MADJID SAMII LECTURE 2

10.00-10.30 **Modern aspects of minimally invasive spinal surgery, ICT and navigation**  
Nikolay Konovalov, Russia

*INTRO Lukas Rasulic*

10.30-10.45 *Coffee break*



## MAIN SCIENTIFIC SESSION 11: MINIMAL INVASIVE SPINE SURGERY

Moderators: Jesus Lafuente, Eirik Helseth, Andrey Grin

HALL 1

- 10.45-11.00 KEY NOTE LECTURE**  
**Evolution of minimally-invasive techniques in instrumented thoraco-lumbar surgery: our experience**  
Roberto Delfini, Italy
- 11.00-11.15 KEY NOTE LECTURE**  
**Role of minimal invasive techniques and new classification system in the surgical treatment of pathologies situated in the spinal canal**  
Peter Banczerowski et al., Hungary
- 11.15-11.30 Do obese patients benefit from minimally invasive lumbar fusion techniques?**  
Wolfgang Senker, Austria
- 11.30-11.45 MIS Techniques in Our Adult Deformity Practice: Real Opportunities and Pitfalls**  
Sergey Mlyavykh et al., Russia
- 11.45-12.00 Full-endoscopic operations of lumbar disc herniation and spinal stenosis - state of the art, possibilities and retrospective review of overall 1054 operated patients**  
Marko Markovic et al., Serbia
- 12.00-12.15 Transforaminal endoscopic discectomy - why this is the best surgery what we can offer to our patients**  
Robert Saftic et al., Croatia
- 12.15-12.30 Endoscopic-assisted fenestration and discectomy in lumbar disc hernia using EasyGo**  
Roman Bosnjak et al., Slovenia
- 12.30-12.45 Percutaneous minimally invasive procedures for osteoporotic vertebral compression fractures - current concepts**  
Yavor Enchev et al., Bulgaria
- 12.45-12.55 Discussion*



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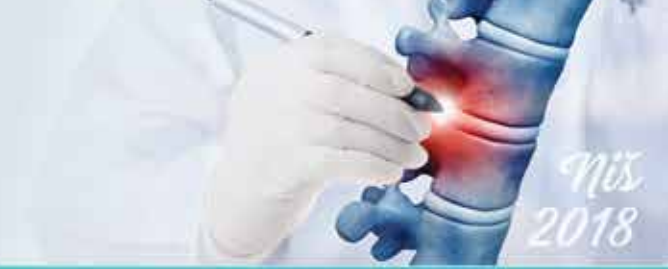
## YOUNG NEUROSURGEONS FORUM - SNSS & SEENS AWARD SESSION

Moderators: Djula Djilvesi, Ibrahim Omerhodzic, Ivan Stefanovic,  
Ljubodrag Minic, Tomislav Sajko

HALL 1

- 13.00-13.08 YA1. **Microsurgical Discectomy – Discectomy or Segmental Decompression, a Technical Approach**  
Igor Popovic et al., Serbia
- 13.08-13.16 YA2. **Spinal Stenosis Patophysiology – Histological Analysis of the Ligamentum Flavum**  
Vuk Aleksic et al., Serbia
- 13.16-13.24 YA3. **Stenosis versus Ischemia of the Spinal Canal – Contact Endoscopy Blood Flow Patterns**  
Nenad Zivkovic et al., Serbia
- 13.24-13.32 YA4. **Ataxia of the Legs – Lumbar Spinal Stenosis vs. Alzheimer Disease**  
Marko Samardzic et al., Serbia
- 13.32-13.40 YA5. **Current trends in lumbar disc surgery: Is there the right way?**  
Jagos Golubovic et al., Serbia
- 13.40-13.48 YA6. **Short term outcome of surgical treatment of patients with lumbar disc herniation**  
Miroslav Fimic et al., Serbia
- 13.48-13.56 YA7. **Is a picture worth a thousand words? Correlation between MRI findings and clinical presentation in patients with lumbar disc herniation and nerve root compression**  
Filip Pajicic et al., Serbia
- 13.56-14.04 YA8. **Complications after surgery for thoracic disc herniation: a systematic review and network meta-analysis**  
Christos Tzerefos et al., Greece
- 14.04-14.12 YA9. **Experience of using laser effects on the intervertebral disc with puncture access**  
Angelina Gorodnina, Russia
- 14.12-14.20 YA10. **Comparative analysis of alo and auto transplants in cervical myelopathy solutions - multisegmental approach**  
Luka Berilazic et al., Serbia
- 14.20-14.28 YA11. **Intramedullary melanocytoma of the cervical cord: case report**  
Paschalis Tsolpidis et al., Greece

14.30-15.00 **YOUNG NEUROSURGEONS AWARD  
BEST ORAL PRESENTATION AND E-POSTER AWARDS  
CLOSING CEREMONY**



## MAIN SCIENTIFIC SESSION 12: GROWING SPINE AND ADULT DEFORMITIES

Moderators: Sergey Vissarionov, Ibrahim Omerhodzic, Danilo Radulovic

HALL 2

- 10.45-11.00 KEY NOTE LECTURE**  
**The cervical spine congenital and genetic abnormalities and deformities**  
Alexander Gubin et al., Russia
- 11.00-11.15 KEY NOTE LECTURE**  
**Neurophysiological aspects to motor control of lumbar cord and spine**  
Milan Dimitrijevic, USA
- 11.15-11.30 Surgical techniques and planning in treatment of 3D spinal deformities**  
Zdeslav Milinkovic, Serbia
- 11.30-11.45 Evaluating management strategies and outcome measures for patients with synovial cysts of the lumbar spine**  
Bruno Splavski et al., Croatia
- 11.45-12.00 Non-traumatic cervical-thoracic surgical spinal pathology in children**  
Alexander Mushkin et al., Russia
- 12.00-12.15 Efficacy of DREZ lesioning in managing pain following spinal cord injury**  
Milan Spaic, Serbia
- 12.15-12.30 Surgery of adolescent idiopathic scoliosis**  
Onur Yaman, Turkey
- 12.30-12.45 Cheap and efficient lumbar fixation and fusion**  
Imad Talahma, Palestine
- 12.45-12.55 Discussion**

Friday, October 5<sup>th</sup> - Sunday, October 7<sup>th</sup>, 2018

## E-POSTER SESSION

### Area for Poster Presentation

**EP1. Use of X-RAY guided transforaminal periradicular infiltration for sciatica**

Nenad Zivkovic et al., Serbia

**EP2. A novel approach in isthmic spondylolisthesis; spino-semilaminafacet sparing**

Ahmet Öğrenci, Turkey

**EP3. The Effect of the Location of Dural Tear and Repairment in Pneumocephalus After Spinal Surgery**

Ahmet Öğrenci, Turkey

**EP4. Spinal Dysraphism in Children: Our Experience in Ninety-Nine Patients**

Mirjana Raicevic et al., Serbia

**EP5. The effect of intraoperative positioning on lumbar lordosis**

Murat Sayin, Turkey

**EP6. Full-Endoscopic radiofrequency ablation for treatment of facet joint pain**

Nenad Zivkovic et al., Serbia

**EP7. Spontaneous regression of cervical disc herniation in a patient with myelopathy**

Danilo Radulovic et al., Serbia

**EP8. Cervical spondylotic myelopathy: 4 years of retrospective outcome analysis**

Danilo Radulovic et al., Serbia

**EP9. Intraoperative neurophysiological monitoring during anterior cervical discectomy and fusion**

Vedrana Karan et al., Serbia

**EP10. Recovery of the patients operated from lumbar disc hernia: risk factor - smoking**

Aleksandar Kostic et al., Serbia

**EP11. Comparison of cortical bone trajectory screws vs. transpedicular screws for spinal fusion at L4-L5 level**

Pen Matic et al., Slovenia

**EP12. Cervical spine trauma associated with multiline skull fracture (case report)**

Boris Djurovic et al., Montenegro

**EP13. Surgical treatment for lumbar disc herniation in the Clinical centre of Montenegro: statistical results from 2006-2018**

Boris Djurovic et al., Montenegro



**EP14. Isolated human intervertebral disc cells as a useful platform for in vitro toxicology assessment**

Tomaz Velnar et al., Slovenia

**EP15. The combination of spinal degeneration and oscillation may result in atypical cervical spinal cord injury: a case series**

Tomaz Velnar et al., Slovenia

**EP16. Patient satisfaction and functional outcome after standard lumbar discectomy and microdiscectomy**

Vojin Kovacevic et al., Serbia

**EP17. Factors that correlate with favorable outcome in surgical treatment of lumbar disc herniation**

Vojin Kovacevic et al., Serbia

**EP18. Complications in Treating the Patient with Malignant Peripheral Nerve Sheath Tumor-Case Report**

Andrija Savic et al., Serbia

**EP19. Full-Endoscopic Decompression of Spinal Canal for Patients with Spinal Stenosis: Prospective Randomized Trial of Overall 108 Patients**

Marko Markovic et al., Serbia

**EP20. Idiopathic Spontaneous Spinal Epidural Hematoma: Case Presentation and Literature Review**

Jagos Golubovic et al., Serbia

**EP21. Risk factors for recurrent lumbar disc herniation after single level microdiscectomy**

Nebojsa Lasica et al., Serbia

**EP22. Review of lumbosacral plexopathies in diabetic patients**

Kristina Stepanovic et al., Serbia

**EP23. Spontaneously resolved large extruded lumbar disc**

Bojana Zivkovic et al., Serbia