



# 5<sup>th</sup> ANNUAL MEETING

## of Serbian Neurosurgical Society

### SNSS Annual meeting 2019

with international participation

## NEUROVASCULAR SUPERSESSIONS:

Exo? Endo? Hybrid?  
Quo vadis?

October 24<sup>th</sup> - 27<sup>th</sup> 2019  
Kragujevac, Serbia

Venue: Hotel Sumarice, Kragujevac



## PRE-MEETING WORKSHOPS

Thursday, October 24<sup>th</sup> 2019

Faculty of Medical Sciences, University of Kragujevac

Registration

### Room 1

#### 08:50-16:40 NEUROVASCULAR SURGICAL ANATOMY WORKSHOP

08:50-09:00 **Introduction**

Lukas Rasulic

09:00-09:30 **Skull base anatomy**

Christophe Destrieux

09:30-09:50 **Arterial embryology**

Christophe Destrieux

09:50-11:00 **Arterial anatomy and angiography**

Igor Maldonado

- ICA anatomy
- MCA anatomy
- ACA anatomy
- VA anatomy
- BA anatomy
- PCA anatomy

11:00-11:30 *Coffee break*

11:30-12:30 **Venous anatomy - interactive session**

Christophe Destrieux

- Superficial and Deep venous anatomy
- Sinus anatomy
- Cavernous sinus anatomy

12:30-13:45 *Lunch*

13.45-14.15 **Anterior fossa vascular approaches**

Timothee Jacquesson

14.15-14.30 **Applied anatomy, clinical cases, real scenarios - interactive session 1**

Igor Maldonado

- 14.30-15.00 **Middle fossa vascular approaches**  
Timothée Jacquesson
- 15.00-15.30 Coffee break
- 15.30-15.45 **Applied anatomy, clinical cases, real scenarios -  
interactive session 2**  
Igor Maldonado
- 15.45-16.15 **Posterior fossa vascular approaches**  
Timothée Jacquesson
- 16.15-16.30 **Applied anatomy, clinical cases, real scenarios -  
interactive session 3**  
Igor Maldonado
- 16.30-16.40 **Closing remarks**

### Room 2

#### 09:00-16:00 **WORKSHOP: NEUROSONOLOGY IN NEUROINTENSIVE CARE**

Introduction: Lukas Rasulic

Chairs: Milija Mijajlovic, Branko Milakovic,

Vojislav Bogosavljevic

#### 09.00-09.30 **Role of extracranial echosonography in neurointensive unit**

Djole Jekic

#### 09.30-10.00 **Transcranial Doppler in subarchnoid haemorrhage**

Aleksandra Pavlovic

#### 10.00-10.30 **Role of transcranial color coded duplex in intracerebral haemorrhage**

Zeljko Zivanovic

#### 10.30-11.00 **Optic nerve sheath diameter ultrasonography and the diagnosis of increased intracranial pressure**

Milija Mijajlovic

11.00-11.30 Coffee break

#### 11.30-12.00 **Ultrasound in brain death**

Dejana Jovanovic

#### 12.00-12-30 **Detection of microembolic signals and cerebral vaso reactivity in neurosurgery**

Toplica Lepic

#### 12.30-13.00 **Echocardiography in neurointensive care**

Aleksandra Ilic

13.00-14.00 Lunch break

#### 14.00-16.00 **Practical presentations of neurosonology methods in neurointensive care**

All lecturers



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## SCIENTIFIC PROGRAM

Thursday, October 24<sup>th</sup> 2019

Faculty of Medical Sciences, University of Kragujevac

### 19:30-21:00 OPENING CEREMONY

- **Prof. Dr. Lukas Rasulic**, Honorary President of the Meeting, SNSS President, SeENS President
- **Doc. Dr. Zlatibor Loncar**, Minister of Health of the Republic of Serbia
- **Mr. Mladen Sarcevic**, Minister of Education, Science and Technological Development, Republic of Serbia
- **Prof. Dr. Slavica Djukic Dejanovic**, Minister without a portfolio in charge of demography and population policy, Republic of Serbia
- **Mr. Tomislav Nikolic**, former President of the Republic of Serbia, The National Council for Coordination of Cooperation with the Russian Federation and the People's Republic of China, President
- **Prof. Dr. Basant Misra**, President of the Asian Australasian Society of Neurological Surgeons, 1st Vice President, World Federation of Neurosurgical Societies
- **Prof. Dr. Andreas Demetriades**, EANS President - Elect
- **Prof. Dr. Kenan Arnautovic**, AANS, Chair, International Collaboration Committee
- **Prof. Dr. Kresimir Rotim**, Honorary President of the Meeting, SeENS Honorary President
- **Prof. Dr. Peter Banczerowski**, Semmelweis University, Department of Neurosurgery, Head of Department, Hungary
- **Prof. Dr. Hidetoshi Kasuya**, Department of Neurosurgery, Tokyo Women's Medical University Medical Center East, Japan
- **Prof. Dr. Nenad Filipovic**, Rector, University of Kragujevac, Serbia
- **Prof. Dr. Vladimir Jakovljevic**, Dean, Faculty of Medical Sciences, University of Kragujevac, Serbia
- **Prof. Dr. Predrag Sazdanovic**, Director, Clinical Center of Kragujevac
- **Doc. dr. Radivoje Nikolic**, Organising Committee President
- **AWARD CEREMONY**
- **Mr. Radomir Nikolic**, Mayor of Kragujevac

Restaurant Kafana Balkan, Kragujevac

### 21:00-23:00 WELCOME RECEPTION

Friday, October 25<sup>th</sup> 2019

Hotel Sumarice, Kragujevac

Registration

Hall 1

07:50-08:00

**Opening remarks:**

Lukas Rasulic, Kresimir Rotim, Istvan Szikora,  
Hidetoshi Kasuya

**08:00-09.45**

**MULTIMODAL EXPERT FORUM 1**

Chairs: Lukas Rasulic, Kresimir Rotim

08:00-08:15

**SNSS TRIBUTE: Madjid Samii Lecture 1**

**From packing the cavity to changing the flow:  
a 12 years clinical experience with flow diverter  
technology**

Istvan Szikora

08:15-08:30

**AVM surgery**

Fady Charbel

08:30-08:45

**ICA blister aneurysms**

Torstein Meling

08:45-09:00

**Neurosurgical treatment of ACM aneurysms**

Kresimir Rotim

09:00-09:15

**Trapping with bypass for ICA blister aneurysms**

Akitsugu Kawashima

09:15-09:30

**Role of EBM in neurovascular surgery: Quality of  
literature, nature of medical publishing**

Ben Roitberg

09:30-09:45

**Extradural selective anterior clinoidectomy for  
IC paraclinoid aneurysms**

Hidetoshi Kasuya

**09:45- 10:15**

**SPECIAL GUEST LECTURE**

**Surgical management of intracranial cavernomas**

Madjid Samii

/ via Skype /

\* Coffee and refreshment will be served in Hall 1

- 10:15-12:00**    **EXO VS. ENDO VS. HYBRID DISCUSSION - ANTERIOR CIRCULATION ANEURYSMS**  
Chairs: Goran Tasic, Zoran Milosevic
- 10:15-10:30    **Rapid ventricular pacing - Advanced intraoperative CBF manipulation during surgery of complex intracranial aneurysms**  
Volker Seifert
- 10:30-10:45    **Anterior brain circulation aneurysm surgery - single center experience**  
Goran Tasic
- 10:45-11:00    **Various Cerebral Blood Flow Control Techniques in Clipping Surgery for Complicated Cerebral Aneurysms**  
Yoshimasa Niiya
- 11:00-11:15    **Microsurgery of Very Large & Giant Anterior Circulation Aneurysm**  
Basant Misra
- 11:15-11:30    **Perforating arteries of brain**  
Luciano Brigante
- 11:30-11:45    **Pretemporal transcavernous skull base approach to circle of Willis aneurysms**  
Kenan Arnautovic
- 11:45-12:00    Discussion
- 12:00-13:45**    **STROKE SYMPOSIA**  
Chairs: Gerasimos Baltsavias, Tomislav Sajko
- 12:00-12:15    **Surgical management of spontaneous intracerebral haemorrhage: why and when?**  
Vladimir Bascarevic
- 12:15-12:30    **Frontline of acute stroke intervention**  
Shinichi Yoshimura
- 12:30-12:45    **The role of neurosurgeon in the stroke treatment**  
Matjaz Vorsic
- 12:45-13:00    **The clinical significance of the scale in the assesment of outcome after intracerebral haemorrhage**  
Zeljko Zivanovic
- 13:00-13:15    **Endovascular treatment of acute ischemic stroke**  
Gerasimos Baltsavias
- 13:15-13:30    **IPSL - ADOC: Complete neurovascular support for microcirculation and nerve function - Nuronorm**  
Dragana Lavrnic
- 13:30-13:45    Discussion
- 13:45-14:30    Lunch



### 14:30-16:15 HOW I DO IT SESSION

Chairs: Hidetoshi Kasuya, Djula Djilvesi

14:30-14:45 **Anterior circulation nuances in temporal clipping**

Tomislav Sajko

14:45-15:00 **The surgical management of previously Endovascular treated aneurysms**

Carlos David

15:00-15:15 **Strategies in brain AVM endovascular treatment**

Gerasimos Baltsavias

15:15-15:30 **Vascular cases: how to move past a friendship fight and eat some "humble pie"**

Stefano Ferraresi

15:30-15:45 **Endovascular coil embolization of very small intracranial aneurysms**

Milan Mijailovic

15:45-16:00 **Multiple bilateral intracranial aneurysms treated by a single craniotomy: an indication for microsurgery? 2D video**

Francesco Tomasello

16:00-16:15 Discussion

16:15-16:30 Coffee break

### 16:30-18:00 EXO VS. ENDO VS. HYBRID DISCUSSION - NEW FRONTIERS

Chairs: Petar Vulekovic, Ivan Radovanovic

16:30-16:45 **Temporal pattern of intracranial aneurism rupture**

Petar Vulekovic

16:45-17:00 **Management of cerebral vasospasm**

Konstantinos Fountas

17:00-17:15 **Brain aneurysms : surgery vs endovascular between common sense, economicity and opportunity**

Stefano Ferraresi

17:15-17:30 **Current Options and Development of Minimally Invasive Transcranial Approaches for Tumoral and Vascular Pathologies**

Ivan Radovanovic

17:30-17:45 **Early Brain Injury Following SAH**

Ihsan Solaroglu

17:45-18:00 **IPSL - MEDTRONIC: Endovascular treatment aneurysms with wide neck on bifurcation with Web system**

Slobodan Culafic

### 18:00-20:15 CAROTID SURGERY SYMPOSIA

Chairs: David Netuka, Konstantinos Fountas

18:00-18:15 **Interim results: prevention of brain infarctions during internal carotid endarterectomy detected using magnetic resonance (sonobirdie mr) trial - a randomized controlled trial**

David Netuka

18:15-18:30 **Intraoperative monitoring in extracranial carotid artery surgery**

Volodymyr Smolanka

18:30-18:45 **Improving safety in Carotid Endarterectomies**

Philippe Schucht

18:45-19:00 **Treatments of carotid/intracranial artery stenosis**

Shinichi Yoshimura

19:00-19:15 **Extra and intracerebral dissections**

Laszlo Novak

19:15-19:30 **Preliminary results of urgent carotid surgery**

Ilijas Cinara

19:30-19:45 **Endovascular treatment of Carotid artery disease - presentations of different cases from Serbian Clinical Center**

Vladimir Cvetic

19:45-20:00 **Stroke after CEA**

Igor Koncar

20:00-20:15 Discussion

### Salon - first floor

13:45-14:30 Southeast Europe Neurosurgical Society - SEENS  
EC Business Meeting

\* Lunch will be served during the meeting

21:00-00:00 Serbian traditional dinner, Hotel Sumarice

## Hall 2

- 12:00-13:45 **EDUCATION AND TRAINING - YOUNG NEUROSURGEONS AWARD**  
Chairs: Andreas Demetriades, Hakan Emmez, Djula Djilvesi, Ibrahim Omerhodzic
- 12:00-12.15 **Education in Neurosurgery**  
Francesco Tomasello
- 12.15-12.30 **Education and Training: a Roadmap from the EANS**  
Andreas Demetriades
- 12.30-13.45 PRESENTATION OF THE BEST SELECTED PAPERS:**
- 12.30-12.37 **Flow diverters in endovascular treatment of aneurysms beyond the circle of willis-our experience**  
Filip Vitosevic
- 12.37-12.44 **Multiple intracranial aneurysms - 20 years of experience in Cluj-Napoca**  
Cristina Aldea
- 12.44-12.51 **Results of surgical treatment of spontaneous intracerebral hemorrhage - personal experience**  
Andrija Savic
- 12.51-12.58 **Vertebral artery injury secondary to cervical gunshot**  
Duygu Dolen
- 12.58-13.05 **A day in the life with Brain Cavernous Malformation**  
Enrico Gambatesa
- 13.05-13.12 **Giant cavernous malformation with unusually aggressive clinical course: case report**  
Jovan Grujic
- 13.12-13.19 **The role of TNF- $\alpha$ -based models in prognostication of the outcomes after ICH: a pilot study**  
Vladimir Rendevski
- 13.19-13.26 **The influence of early craniectomy and microsurgical treatment of ruptured MCA aneurysm on neurological recovery accompanied with extracranial complication**  
Fahrudin Alic
- 13.26-13.33 **Computed tomography volumetric analysis of aneurysmal subarachnoid haemorrhage in modified Fisher scale graded patients: A strong delayed cerebral ischemia predictor?**  
Jagor Golubovic

13.33-13.40 **Angiographic vasospasm and its prognostic significance within operative treated patients after the rupture of intracranial aneurysms**

Luka Berilazic

13.40-13.47 **Maxillary and middle meningeal artery insonation in by - pass evaluation**

Milan Lepic

13:47-14:30 Lunch

14:30-15:30 **RAPID CROSSFIRE SESSION 1**

**Case presentation and expert discussion**

Presenters: Andrija Savic, Bojan Jelaca, Nebojsa Lasica

Moderators: Volker Seifert, Gerasimos Baltasvias,

Tomislav Sajko

**Case 1: Surgical treatment of the cavernous angioma - case report**

Andrija Savic

**Case 2: Treatment for Intracranial Aneurysmal Hemorrhage in Elderly Patients**

Bojan Jelaca

**Case 3: Patient with saccular right ICA and two fusiform aneurysms of the left vertebral and basilar artery**

Nebojsa Lasica

15:30-17:18 **ORAL PRESENTATION 1**

Chairs: Aki Laakso, Laszlo Novak

15.30-15.36 **Complications, comorbidity, and quality of life in patients with angiogram negative spontaneous subarachnoid hemorrhage**

Aleksandar Kostic et al.

15.36-15.42 **Eyebrow keyhole versus pterional craniotomy for clipping of anterior circulation cerebral aneurysms**

Dario Muzevic et al.

15.42-15.48 **Challenges in endovascular treatment of wide neck aneurysms**

Menka Lazareska et al.

15.48-15.54 **Thrombectomy in children why not?**

Ivan Vukasinovic et al.

15.54-16.00 **Surgical Management of Paraclinoid Aneurysms in Solo Neurosurgical Practice**

Hotetsu Shimamoto

- 16.00-16.06 **Unruptured mca bifurcation aneurysm - case report**  
Andrija Savic
- 16.06-16.12 **Medical Image Segmentation Using Deformable Models and Local Fitting Binary**  
Emmanuel Gadzama Hamatu
- 16.12-16.18 **Endovascular treatment of brain AVMs: pearls and pitfalls**  
Ivan Vukasinovic et al.
- 16.18-16.24 **Pure DVA patient presented with Intracerebral Hematoma: A rare case**  
Utku Ozgen et al.
- 16.24-16.30 **Case report: Surgical treatment of Deep-seated Occipital Paramedian Ruptured AVMs**  
Adina Mihaela Popa
- 16.30-16.36 **Familial cerebellar cavernoma in 13-year-old child: case report**  
Bojana Zivkovic et al.
- 16.36-16.42 **Basilar artery occlusion and unknown-onset stroke, a tied hands situation or not? Case report**  
Dmitar Vlahovic et al.
- 16.42-16.48 **Intra-arterial tirofiban thrombolysis after flow-diverter stent thrombosis: case report**  
Slavko Djuraskovic et al.
- 16.48-16.54 **Challenges of Anesthesia in Endovascular Mechanical Thrombectomy**  
Inga Mladic Batinica et al.
- 16.54-17.00 **Seizures in epilepsy in people with cerebral cavernomas**  
Lazar Stankovic et al.
- 17.00-17.06 **Epilepsy as an initial factor of the clinical presentation of arteriovenous malformations of the brain - natural history and risk factors**  
Abousabie Z. et al.
- 17.06-17.12 **The natural course of spontaneous intracerebral brain hemorrhage localized in the basal ganglia of the brain - the analysis of a series of 39 patients**  
Almzeogi M. et al.
- 17.12-17.18 **Predictor morphological factors for rupture of arteriovenous brain malformations**  
Zivanovic Jelena et al.
- 17.18-17.30 **Coffee break**

- 17:30-19:45 **NEUROVASCULAR SUPERSESSION 1**  
Chairs: Istvan Szikora, Akitsugu Kawashima
- 17:30-17:45 **Avoiding ICA injury in endonasal surgery of invasive cavernous sinus adenomas. A single case of endonasal CS-ICA clipping**  
Roman Bosnjak
- 17:45-18:00 **ACM: to clip or coil?**  
Antonino Raco
- 18:00-18:15 **Surgical strategy for bilateral large vertebral artery dissecting aneurysms. Lessons form a case**  
Yasuhiro Sanada
- 18:15-18:30 **Natural history of brain AVMs**  
Aki Laakso
- 18:30-18:45 **Impact of flow diverters on peri-aneurysmal flow: mechanical properties and flow effects by measurements and simulation**  
Istvan Szikora
- 18:45-19:00 **Microvascular Decompression of Dolychovertebro basilar Artery in Patients with Trigeminal Neuralgia**  
Jamil Rzaev
- 19:00-19:15 **Anesthesia in surgery of cerebrovascular diseases**  
Branko Milakovic
- 19:15-19:30 **The overall outcome influence of rebleeding vasospasm and hydrocephalys in patients with spontaneous subanarchoid hemorrhage and the factors determining their onset**  
Goran Pavlicevic
- 19:30-19:45 Discussion
- 21:00-00:00 Serbian traditional dinner, Hotel Sumarice**

### Hall 3

#### 14:30-19:30 SCIENTIFIC RESEARCH IN NEUROSURGERY: FACING THE 21<sup>ST</sup> CENTURY CHALLENGES

##### DESCRIPTION:

**Course duration:** 5 hours

**Price:** Included into the Registration fee with compulsory online pre-registration:

<https://ultramarine.vcongress.de/vascularneuro2019/home>

**Number of participants:** up to 20

##### COURSE INTRODUCTION:

###### Introduction

Lukas Rasulic, Kresimir Rotim, Ben Roitberg

###### Importance of Publishing: Insight into the Functioning of a Scientific Journal

Ben Roitberg

###### Scientific plagiarism, Acta Clinica Croatica experience

Kresimir Rotim

###### How to Convince a Reviewer?

Ihsan Solaroglu

###### Elements of a Scientific Paper

Stefan Mandic-Rajcevic

##### HANDS-ON TRAINING:

Stefan Mandic-Rajcevic, Milan Lopic, Jagos Golubovic, Bojan Jelaca

1. **Topic, title, abstract, keywords, authors, affiliations and author contributions**
2. **Introduction**
  - From an idea to the literature search
  - Structure
  - PubMed and MeSH terms
  - Alternative sources

- Title and abstract screening
- Writing the Introduction
- Reference management and citing
- Plagiarism

### 3. **Material and methods**

- Structure
- Types of studies
- Ethical approval and informed consent
- Statistics
- Reproducibility

### 4. **Results**

- Structure
- Tables
- Figures
- Descriptions
- Interpretation of results

### 5. **Discussion and Conclusions**

- Structure
- Introduction vs Discussion
- Study limitations
- Future studies
- Lazy writing

### 6. **Choosing the right Journal**

- Journal and author metrics
- Journal suggestion systems

**21:00-00:00** **Serbian traditional dinner**, Hotel Sumarice



Saturday, October 26<sup>th</sup> 2019

Hotel Sumarice, Kragujevac

Registration

Hall 1

- 08.00-09.30 EXO VS. ENDO VS. HYBRID DISCUSSION - MCA ANEURYSMS**  
Chairs: Peter Banczerowski, Svetlana Milosevic Medenica
- 08:00-08:15 **MCA endovascular vs surgical treatment**  
Nikolay Velinov
- 08:15-08:30 **Redefining the Guidelines in Ruptured MCA Aneurysms Treatment**  
Djula Djilvesi
- 08:30-08:45 **Indications for proper treatment selection of middle cerebral artery aneurysms: institutional experience**  
Bruno Splavski
- 08:45-09:00 **Clipping versus coiling for ruptured intracranial aneurysms: single institution experience**  
Zlatko Ercegovic
- 09:00-09:15 **MCA aneurysms treatment in 21<sup>st</sup> century**  
Fady Charbel
- 09:15-09:30 **IPSL - Vemax: Novel emerging therapeutical supplements in treatment of neurovascular disorders; augmentation biases in regeneration and sanation of the oxydative stress-myth or reality**  
Lukas Rasulic
- 09:30-09:45 **SPECIAL GUEST LECTURE: Computer modeling of patient-specific intracranial aneurysms**  
Nenad Filipovic
- 09:45-10.00 Coffee break

Saturday, October 26<sup>th</sup> 2019 / Hall 1

October 24<sup>th</sup> - 27<sup>th</sup> 2019  
Kragujevac, Serbia

### 10:00-12:30 HOW I DO IT SESSION

Chairs: Martin Sames, Stefano Ferraresi

- 10:00-10:15 **Intramedullary cavernous malformations. Microneurosurgical treatment. How I do it.**  
Marcel Ivanov
- 10:15-10:30 **Endovascular management of Vein of Galen aneurysm malformation- case reports and followup period of 7 Years**  
Snezana Lukic
- 10:30-10:45 **Vein of Galen aneurismal malformations - Three cases report**  
Matos Bostjan
- 10:45-11:00 **In-situ occlusion of arteriovenous malformations in highly eloquent locations**  
Daniel Walsh
- 11:00-11:15 **Exoscopical aneurysm surgery: The future?**  
Daniel Hanggi
- 11:15-11:30 **Management of giant and large carotid-ophthalmic aneurysms**  
Martin Sames
- 11:30-11:45 **Treatment Options for Ruptured and Unruptured Aneurysms in UHC Sestre Milosrdnice**  
Luka Novosel
- 11:45-12:00  **radiosurgery for Large AVM's**  
Hakan Emmez
- 12:00-12:15 **Flow diverting stents in endovascular treatment of large, giant and fusiform aneurysms: breaking limitations of endovascular repair**  
Svetlana Milosevic-Medenica
- 12:15-12:30 **Surgery of the vascular lesions surrounding fourth ventricle**  
Ibrahim Omerhodzic

- 12:30-14:00 MULTIMODAL EXPERT FORUM 2**  
Chairs: Francesco Tomasello, Volker Seifert
- 12:30-12:45 **SNSS TRIBUTE: Milivoje Kostic Lecture 1**  
**Giant aneurysma management**  
Peter Vajkoczy
- 12:45-13:00 **Tandem Fenestration of lamina terminalis and membrane of Lillequist during microsurgical clipping of anterior circulation aneurysms: Does it reduce shunt dependent hydrocephalus following SAH?**  
Francesco Tomasello
- 13:00-13:15 **Progressive Foix-Alajouanine syndrome in case of tethered cord patient with complex spinal developmental disease**  
Peter Banczerowski
- 13:15-13:30 **Microsurgery of unruptured aneurysms - still a valid option**  
Ioan Stefan Florian
- 13:30-13:45 **Efficacy of Preoperative Embolization with Onyx for Intracranial AVM Surgery From a Direct Surgeon's Point of View**  
Tsuyoshi Izumo
- 13:45-14:00 **Treatment of a giant vertebral aneurysm with antegrade vascular reconstruction**  
Yasuhiro Sanada
- 14:00-14:30 Lunch
- 14:30-15:45 QUO VADIS? - BYPASS SUPERSESSION**  
Chairs: Basant Misra, Hiroki Kurita
- 14:30-14:45 **Rationale for cerebral multibarrel revascularization**  
Vasily Lukshin
- 14:45-15:00 **Parent artery occlusion under bypass protection for the management of complex intracranial aneurysms**  
Andreas Gruber
- 15:00-15:15 **Bypass Surgery for Blood Blister-like Aneurysms**  
Yoshimasa Niya
- 15:15-15:30 **Posterior fossa bypasses**  
Peter Vajkoczy
- 15:30-15:45 Discussion

### 15:45-17:30 EXO VS. ENDO VS. HYBRID DISCUSSION - POSTERIOR CIRCULATION ANEURYSMS

Chairs: Torstein Meling, Andreas Gruber

15:45-16:00 **Combined Neurovascular Approach (“Hybrid Repair”) for Complex Large/Giant Basilar Apex Aneurysms**

Hiroki Kurita

16:00-16:15 **Microsurgery of Very Large & Giant Posterior Circulation Aneurysm**

Basant Misra

16:15-16:30 **The role of bypass in surgery of complex aneurysms (anterior and posterior circulation)**

Andrey Dubovoy

16:30-16:45 **Bypass surgery for aneurysms in posterior circulation**

Akitsugu Kawashima

16:45-17:00 **Management of dissecting and fusiform vertebral artery aneurysms involving the PICA origin**

Andreas Gruber

17:00-17:15 **Endovascular Treatment of intracranial bifurcation aneurysms**

Kubilay Aydin

17:15-17:30 Discussion

17:30-17:45 Coffee break

### 17:45-20:15 EXO VS. ENDO VS. HYBRID DISCUSSION - OUTCOME

Chairs: Kenan Arnautovic, Vincenzo Paterno

17:45-18:00 **Aneurysms by the Numbers: Mathematical Modeling to Predict Rupture Status**

Charles Prestigiacomo

18:00-18:15 **Evolution of aneurysm surgery in the endovascular era**

Victor Volovici

18:15-18:30 **Our approach and experience with adult brainstem cavernous malformations**

Murat Imre Ussesli

18:30-18:45 **Hybrid OR, future of neurosurgery**

Zoran Milosevic

18:45-19:00 **Surgical outcome in poor grading SAH patients**

Anastasia Tasiou

- 19:00-19:15 **Neurosurgical treatment for multiple aneurysms**  
Branko Djurovic
- 19:15-19:30 **Association between Circle of Willis Configuration and Rupture of Cerebral Aneurysms**  
Nebojsa Stojanovic
- 19:30-19:45 **The vascular, endovascular and cognitive approach to cerebral aneurysm surgery**  
Milan Spaic
- 19:45-20:00 **Long term cognitive outcome after ruptured aneurysm clipping**  
Vladimir Papic
- 20:00-20:15 **The Influence of Intraoperative Rupture of Cerebral Aneurysms on the Outcome of Microsurgical Intervention**  
Novak Lakicevic

### Salon - first floor

- 14:00-14:30 **Serbian Neurosurgical Society - SNSS  
EC Business Meeting**

### Sports hall

- 19:30-20:30 Sports tournament - Basketball 3x3
- 21.00-00.00 Social dinner**, Hotel Sumarice

### Hall 2

#### 12:30-14:00 STROKE SYMPOSIA

Chairs: Sanja Tomasovic, Natasa Milivojevic

12:30-12:45 **Outcome prediction by volume of ischemic brain in malignant middle cerebral artery infarction treated by decompressive hemicraniectomy**

Christian Freyschlag

12:45-13:00 **IPSL Bormia- Vesalio: New technologies in stroke treatment**

Luka Novosel

13:00-13:15 **Malignant middle cerebral artery (MCA) infarction and decompressive hemicraniectomy- to do or not to do?**

Natasa Milivojevic

13:15-13:30 **Anticoagulant therapy for acute ischemic stroke**

Tanja Boskovic Matic

13:30-13:45 **Indications for surgery and surgical strategies for spontaneous intracerebral hemorrhage**

Vojin Kovacevic

13:45-14:00 **IPSL- Hemofarm: Hospital infections in the era of hybrid OR**

Aleksandar Markovic

14:00-14:30 Lunch

#### 14:30-15:45 RAPID CROSSFIRE SESSION 2

##### Case presentation and expert discussion

Presenters: Nemanja Jovanovic, Milan Lepic, Filip Pajcic

Moderators: Ioan Stefan Florian, Djula Djilvesi,

Nikolay Velinov

##### Case 1: Giant basilar artery aneurysm

Nemanja Jovanovic

##### Case 2: Diffuse spinal AVM

Milan Lepic

##### Case 3: Posterior fossa vascular lesion presenting with severe cerebellar symptoms

Filip Pajcic

- 15:45-18:15 **NEUROVASCULAR SUPERSESSION 2**  
Chairs: Philippe Schucht, Miroslav Vukic
- 15:45-16:00 **IPSL Galenika: Contemporary and Practical Management of the enigmatic process: microcirculation and delayed nerve tissue ischemia**  
Vojin Kovacevic
- 16:00-16:15 **Origin of Sylvian hematoma**  
Hidetoshi Kasuya
- 16:15-16:30 **Treatment of spinal dural AV fistulas: surgery vs embolization**  
Miroslav Vukic
- 16:30-16:45 **CEA: how to do it**  
Philippe Schucht
- 16:45-17:00 **Surgical Management of Complex Aneurysms using Skull Base Techniques**  
Tsuyoshi Izumo
- 17:00-17:15 **Spinal cord hemangioblastoma**  
Vincenzo Paterno
- 17:15-17:30 **Surgical practice in tertiary care centre for vascular lesions**  
Danilo Radulovic
- 17:30-17:45 **MCA aneurysm: Proximal or distal?**  
Vojislav Bogosavljevic
- 17:45-18:00 **Management and evaluation of clinical outcome in patients with middle cerebral aneurysms treated with surgical clipping versus endovascular coiling**  
Aleksandar Caparoski
- 18:00-18:15 **Incidence of hypopituitarism after spontaneous subarachnoid hemorrhage of aneurysmal origin**  
Vladimir Jovanovic
- 18:15-18:30 **Coffee break**
- 18:30-20:12 **ORAL PRESENTATIONS 2**  
Chairs: Ihsan Solaroglu, David Netuka
- 18:30-18:36 **Intraventricular cerebral cavernomas: natural history and surgical outcome**  
Vincenzo Fontana et al.
- 18:36-18:42 **Dual trained vascular neurosurgeon - a paradigm shift**  
Adnan Cickusic et al.
- 18:42-18:48 **The unusual timing of the cerebral vasospasm and ischemic neurological deficit in a patient with aneurysmal subarachnoid hemorrhage**  
Slavko Zivkovic et al.

- 18.48-18.54 **Neurosurgical treatment of intracranial aneurysms**  
Ante Subasic
- 18.54-19.00 **Skull-base osseous arteriovenous malformation - a rare clinical entity in pediatric patients**  
Srdjan Nikolovski et al.
- 19.00-19.06 **Diagnostic and Therapeutic flow-chart for treatment of Cerebral Cavernous Malformations**  
Pier Paolo Berti et al.
- 19.06-19.12 **Endovascular treatment od AVM- case report**  
Andrija Savic et al.
- 19.12-19.18 **Can EEG Test Helps in Identifying Brain Tumor?**  
Emmanuel Gadzama Hamatu
- 19.18-19.24 **Endovascular treatment of large and giant aneurysms: use of intraoperative monitoring and post-surgery rescue techniques**  
Ivan Vukasinovic et al.
- 19.24-19.30 **Mechanical Thrombectomy in stroke- our ten months experience**  
Menka Lazareska et al.
- 19.30-19.36 **Surgical Outcomes of Pons Cavernomas Operated with Suboccipital Craniectomy**  
Utku Ozgen
- 19.36-19.42 **Transorbital Hybrid Approach for Endovascular Occlusion of indirect Carotid-Cavernous Fistulas - case report**  
Ivan Vukasinovic
- 19.42-19.48 **Should we restore oral anticoagulant therapy after intracerebral hemorrhage, when and how?**  
Goran Knezovic
- 19.48-19.54 **Goal directed fluid therapy during intracranial aneurysm surgery- fashion or need?**  
Sanja Maricic Prijic
- 19.54-20.00 **Predictable Morphometric Parameters for Rupture of Intracranial Aneurysms**  
Nikolic I. et al.
- 20.00-20.06 **Natural flow of arterio-venous malformations of the brain**  
Repac N. et al.
- 20.06-20.12 **Cavernous malformations of the brain stem - the clinical features and surgical approaches**  
Janicijevic A. et al



### Hall 3

08:30-13:45 **NURSING SYMPOSIUM**  
Chairs: Cecilija Rotim, Zana Djuric, Bojana Nedeljkovic

NURSING SYMPOSIUM SUPPORTED BY



- 08:30-08:40 **Opening remarks**  
Lukas Rasulic  
Kresimir Rotim
- 08:40-08:52 **Decision making in a nursing profession**  
Cecilija Rotim
- 08:52-09:04 **Specificities in the work of a nurse on stereotaxic radiosurgery - Gamma Knife**  
Zana Djuric
- 09:04-09:16 **Scrub nurse procedures during intracranial aneurysm surgery**  
Novka Lipovcan
- 09:16-09:28 **Cerebral aneurysm-intraoperative nursing care**  
Vesna Svircevic
- 09:28-09:40 **Importance of early recognition of complications after treatment of cerebrovascular diseases**  
Ivana Dondo
- 09:40-09:52 **Nursing care of severe disabled patients after spontaneous intracranial haemorrhage**  
Bojana Nedeljkovic
- 09:52-10:04 **Nursing care of patients with cerebral aneurysm**  
Marija Magdic, Mirjana Orsic
- 10:04-10:16 **Postoperative care of patients with cerebral aneurysm**  
Ljiljana Nesovic
- 10:16-10:28 **Nursing care of patients with AV malformation**  
Marija Knezovic
- 10:28-10:40 **Endovascular treatment of intracranial aneurysm- perioperative nursing care for patients**  
Lorena Manovic
- 10:40-11:00 Coffee break

Chairs: Vesna Svircevic, Svetlana Delic, Novka Lipovcan

- |                    |  |
|--------------------|--|
| 11:00-11:12        | <b>Technical organisation of a neurosurgical operating room</b><br>Sanja Lesnjak   |
| 11:12-11:24        | <b>Nursing role in diagnostic procedures in patients with spontaneous subarachnoid haemorrhage</b><br>Svjetlana Stojisavljevic |
| 11:24-11:36        | <b>Standardized procedures in children with intracranial hemorrhage</b><br>Enisa Rizic   |
| 11:36-11:48        | <b>Scrub nurse procedures during neurosurgical treatment of intracerebral hematomas</b><br>Ivana Balic Strbac                  |
| 11:48-12:00        | <b>The role of scrub nurse during stereotactic brain biopsy procedure</b><br>Branislava Sirar                                  |
| 12:00-12:12        | <b>Technological innovations - challenges in scrub nursing profession</b><br>Ivana Galic                                       |
| 12:12-12:24        | <b>Learning curve in brain aneurysm surgery for nurses working in operating room</b><br>Aleksandar Minev                       |
| 12:24-12:36        | <b>Nursing role in preoperative procedures for endovascular interventions</b><br>Jovana Gvozdenovic                            |
| 12:36-12:48        | <b>Importance of scrub nurses' communication skills in treatment of neurosurgical patient</b><br>Zrinka Gabrilo                |
| 12:48-13:00        | <b>The connection between depression and strokes- the challenges nurses face in their work</b><br>Mateo Kosier                 |
| 13:00-13:12        | <b>Standardized activities in patients with intracranial hemorrhage</b><br>Svetlana Delic                                      |
| 13:12-13:24        | <b>Intrathecal Baclofen Therapy (ITB)- our experience</b><br>Martina Kolacko   |
| <b>13.24-13.40</b> | <b>Discussion</b>  |
| <b>13.40-14.00</b> | <b>Closing and award ceremony</b>  |

Sunday, October 27<sup>th</sup> 2019

Hotel Sumarice, Kragujevac

Registration

Hall 1

**08:00-09:45 EXO VS. ENDO VS. HYBRID DISCUSSION - AVM**

Chairs: Ioan Stefan Florian, Marco Cenzato

08:00-08:15 **Vascular malformations at the pediatric age**

Ioan Stefan Florian

08:15-08:30 **Endovascular treatment of spinal dural AVFs:  
possibilities and limits**

Ivan Vukasinovic

08:30-08:45 **Dural AVF's - a case study**

Sanja Tomasovic

08:45-09:00 **Unruptured AVMs**

Marco Cenzato

09:00-09:15 **Biology and Genetics of Human Brain Arteriovenous  
Malformations: A Path towards Targeted Therapies**

Ivan Radovanovic

09:15-19:30 **The importance of Telestroke network in swift  
treatment of ruptured AVMs**

Tomaz Velnar

09:30-09:45 Discussion

**09:45-10:15 MEET THE EXPERTS - KOC HEALTHCARE SESSION:**

**Teamwork in Neurovascular Surgery**

Chair: Talat Kiris, Lukas Rasulic

**Endovascular treatment of Wide-necked intracranial  
bifurcation aneurysms**

Kubilay Aydın

**radiosurgery for cerebral neurovascular problems**

Selcuk Peker

**Team Approach for Vascular Pathologies:**

**Case Discussions**

İhsan Solaroglu

\*Coffee and refreshment will be served in Hall 1

Sunday, October 27<sup>th</sup> 2019 / Hall 1

October 24<sup>th</sup> - 27<sup>th</sup> 2019  
Kragujevac, Serbia

### 10:15-12:00 EXO VS. ENDO VS. HYBRID DISCUSSION CAVERNOMA

Chairs: Ivan Radovanovic, Ihsan Solaroglu

#### 10:15-10:30 **Brainstem cavernomas**

Marco Cenzato

#### 10:30-10:45 **MR Imaging of cavernomas**

Matej Vrabec

#### 10:45-11:00 **Surgical treatment of cavernomas**

Nicolas Foroglou

#### 11:00-11:15 **Brainstem cavernomas**

Barbara Masotto

#### 11:15-11:30 **Radiosurgery for brainstem cavernomas**

Selcuk Peker

#### 11:30-11:45 **Cerebral Cavernomas a new grading scale for surgical decision-making**

Marco Fontanella

#### 11:45-12:00 Discussion

### 12:00-13:00 MULTIMODAL EXPERT FORUM 3

Chairs: Torstein Meling, Lukas Rasulic

#### 12:00-12:15 **SNSS TRIBUTE: Milivoje Kostic Lecture 2**

**Hybrid cerebrovascular surgery in 21<sup>th</sup> century - Quo vadis?**

Torstein Meling

#### 12:15-12:30 **SNSS TRIBUTE: Madjid Samii Lecture 2**

**The Current Status and Future of Direct AVM Surgery**

Hiroki Kurita

#### 12:30-12:45 **New endovascular aneurysm treatment**

Daniel Hoit

#### 12:45-13:00 **Intraoperative imaging of cerebral vessels during neurosurgical operations**

Talat Kiris

### 13:00-13:15 **Closing and awards ceremony**