

8TH ANNUAL MEETING

of Serbian Neurosurgical
Society

with international
participation



PROGRAM

20 BEST
ABSTRACTS
GRANTS

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99th Anniversary
of Neurosurgery
in Serbia

84th Anniversary of Clinic
for Neurosurgery, University
Clinical Center of Serbia

CURRENT CONCEPT IN MILITARY NEUROSURGERY THE STATE IN THE FIELD

December 7th - 10th, 2022

Venue: Military Medical Academy
Crnotravska 17

BELGRADE, SERBIA

<https://snssmilitaryneuro.talkb2b.net/>

EACCME®
27 CME credits
15 SHC credits



Joint meeting with
**Southeast Europe
Neurosurgical
Society - SeENS**



PROGRAM

December 7th 2022
Crowne Plaza

PRE-MEETING COURSES

- 08:00 *Military Medical Academy - Main Hall*
Registration
- 09:00-17:00 *Military Medical Academy - Amphitheatre - Hall 1, 4th floor*
Augmented & Virtual Reality Course
- 09:00-17:00 *Military Medical Academy - NNV - Hall 2, 3rd floor*
Theoretical and Practical Course on MIS
- 09:00-17:00 *Military Medical Academy - Stomatology Amphitheater - Hall 3, 5th floor*
Basic course on scientific writing and publishing in neurosurgery
- 09:00-17:00 *Military Medical Academy - Glass Hall - Hall 4, 3rd floor*
See ORBEYE used by neurosurgeons
- 09:00-17:00 *Military Medical Academy - Radiology Classroom - Hall 5, 3rd floor*
Radiosurgery Course

19:30-22:00 OPENING CEREMONY AND WELCOME COCKTAIL

- Military Medical Academy - Amphitheatre*
**Dress code: Dark suit, formal*
- 19:30-20:00 **Get together**
- 20:00-20:30 **Opening ceremony**
- 20:30-22:00 **Welcome cocktail**



Augmented & Virtual Reality Course

Description

Target group: Senior & Young Neurosurgeons, General Medical Practitioners, Medical Students

Venue: Military Medical Academy Amphitheatre - Hall 1, 4th floor

Course duration: 6,5 hours

Number of participants: up to 30

Faculty: Prof. Dr. Ihsan Solaroglu, Dr. Oguz Baran, Dr. Goktug Akyoldas

Facilitators: Prof. Dr. Goran Pavlicevic, Dr. Mirko Micovic, Dr. Jovan Grujic

Course

| | |
|-------------|---|
| 09:00-09:15 | Welcome and Introduction |
| 09:15-10:15 | The Role of Imaging & Visualization in Neurosurgery |
| 10:15-10:45 | Introduction to the VR system |
| 10:45-11:15 | Coffee break |
| 11:15-12:15 | Neuroanatomy Training by Augmented/Virtual Reality Lecture, <i>live demonstration and hands-on</i> |
| 12:15-13:30 | Postprocessing of Imaging Data for Surgical Planning <i>Live Demonstration</i> |
| 13:30-14:30 | Lunch |
| 14:30-15:00 | VR Planning for a Skull Base Tumour Case |
| 15:00-15:30 | VR Planning for Brain Tumour Case |
| 15:30-16:00 | Hands-on VR for Skull Base Lesion |
| 16:00-16:30 | Hands-on VR for intrinsic Brain Lesion |
| 16:30-16:45 | Q&A |
| 16:45-17:00 | Participants feedback |
| 17:00 | End of the course |



Theoretical and Practical Course on MIS

Description

Target group: Senior & Young Neurosurgeons, General Medical Practitioners, Medical Students

Venue: Military Medical Academy NNV - Hall 2, 3rd floor

Course duration: 6,5 hours

Number of participants: up to 30

Course

- 09:00-09:20 **BHS RoboticScope - Enter a new era of digital surgical technologies with RoboticScope®**
Faculty: Rudolf Peschek & Milos Banic
Facilitators: Andrija Savic, Drazen Ivetic, Vuk Aleksic
- 09:20-09:30 Brief introduction of BHS Technologies and RoboticScope
- 09:30-09:35 System Overview
- 09:35-09:40 System components
- 09:40-09:45 Main Features
- 09:45-09:55 Hands - free Control
- 09:55-10:00 Differentiation to Other Solutions
- 10:00-10:20 **IRRAS - A Fundamental Solution for Intracerebral Fluid Management**
Faculty: Edmond Malek & Coenraad Tamse
Facilitators: Vojislav Bogosavljevic, Drazen Ivetic, Luka Berilazic
- 10:20-10:30 **Introducing an Active Fluid Exchange Catheter**
- 10:30-10:40 **IRRAflow - a variety of pathologies treatment**
- 10:40-10:45 **IRRAflow Intracerebral Fluid Management**
- 10:45-11:15 Coffee break



| | |
|-------------|---|
| 11:15-13:30 | Hands-on Demos RoboticScope Hands-on Demo – Sometimes change of perspective is enough to see things in a new way “ IRRAflow Intracerebral Fluid Management Hands-on Demo |
| 13:30-14:30 | Lunch |
| 14:30-16:30 | Hands-on Demos RoboticScope Hands-on Demo – Sometimes change of perspective is enough to see things in a new way “ IRRAflow Intracerebral Fluid Management Hands-on Demo |
| 16:30-16:45 | Q&A |
| 16:45-17:00 | Participants feedback |
| 17:00 | End of the course |



Basic course on scientific writing and publishing in neurosurgery

Description

Target group: Young neurosurgeons & Medical students

Venue: Military Medical Academy Stomatology Amphitheatre - Hall 3, 5th floor

Course duration: 6,5 hours

Number of participants: up to 30

Course introduction

09:00-09:25 **Importance of Publishing**
Prof. Andreas Demetriades, Prof. Tiit Mathiesen,
Prof. Kresimir Rotim

Hands-on training

Stefan Mandic-Rajcevic, Milan Lepic & Domagoj Gajski

09:25-09:55 **Topic, title, abstract, keywords, authors, affiliations and author contributions**

09:55-10:45 **Introduction**

1. From an idea to the literature search
2. Structure
3. PubMed and MeSH terms
4. Alternative sources
5. Title and abstract screening
6. Writing the Introduction
7. Reference management and citing
8. Plagiarism

10:45-11:15 Coffee break



| | |
|-------------|--|
| 11:15-12:30 | Material and methods <ol style="list-style-type: none">1. Structure2. Types of studies3. Ethical approval and informed consent4. Statistics5. Reproducibility |
| 12:30-13:30 | Results <ol style="list-style-type: none">1. Structure2. Tables3. Figures4. Descriptions5. Interpretation of results |
| 13:30-14:30 | Lunch |
| 14:30-15:30 | Discussion and Conclusions <ol style="list-style-type: none">1. Structure2. Introduction vs Discussion3. Study limitations4. Future studies5. Lazy writing |
| 15:30-16:30 | Choosing the right Journal <ol style="list-style-type: none">1. Journal and author metrics2. Journal suggestion systems |
| 16:30-16:45 | Q&A |
| 16:45-17:00 | Participants feedback |
| 17:00 | End of the course |



See ORBEYE used by neurosurgeons

Description

Target group: Senior & Young Neurosurgeons, General Medical Practitioners, Medical Students

Venue: Military Medical Academy Glass Hall - Hall 4, 3rd floor

Course duration: 6,5 hours

Number of participants: up to 30

Faculty: Martin Majovsky, Ian Drdla, Aleksandar Mirkovic

Facilitators: Nenad Novakovic, Jagos Golubovic, Vojin Kovacevic, Marko Samardzic

Course

| | |
|-------------|--|
| 09:00-09:15 | Welcome and Introduction |
| 09:15-10:00 | Exoscope in neurosurgery - personal experience Martin Majovsky |
| 10:00-10:45 | Exoscopes in spine surgery |
| 10:45-11:15 | Coffee break |
| 11:15-13:30 | Live Demonstration |
| 13:30-14:30 | Lunch |
| 14:30-15:00 | Skull Base Tumour Case |
| 15:00-15:30 | Brain Tumour Case |
| 15:30-16:00 | Aneurysm |
| 16:00-16:30 | AVM |
| 16:30-16:45 | Q&A |
| 16:45-17:00 | Participants feedback |
| 17:00 | End of the course |



radiosurgery Course

Description

Target group: Senior & Young Neurosurgeons, Radiation Oncologists, General Medical Practitioners, Medical Students

Venue: Military Medical Academy Radiology Classroom - Hall 5, 3rd floor

Course duration: 6,5 hours

Number of participants: up to 30

Course introduction

09:00-09:05 **Opening remarks**
Prof. Selcuk Peker

Session 1 / Moderator: Selcuk Peker

09:05-09:25 **History and current situation of radiosurgery**
Enrico Motti

09:25-09:45 **Radiobiology of Radiosurgery and BED concept**
Ian Paddick

09:45-10:05 **Gamma Knife Radiosurgery: Technique, Applications, Advantages, Dysadvantages**
Milica Tadic

10:05-10:25 **Cyberknife Radiosurgery: Technique, Applications, Advantages, Dysadvantages**
Hale Basak Caglar

10:25-10:45 **LINAC Radiosurgery: Technique, Applications, Advantages, Dysadvantages**
Thierry Gevaert

10:45-11:15 Coffee break

Session 2 / Moderator: Enrico Motti

11:15-11:35 **Radiosurgery: From the eyes of a non-radiosurgeon**
Petar Vulekovic



- 11:35-11:55 **Radiosurgery for AVM's, DAVF's and Cavernomas**
Roberto Martinez
- 11:55-12:15 **Radiosurgery for meningiomas**
Antonio Santacrose
- 12:15-12:35 **Radiosurgery for metastasis**
Bodo Lippitz
- 12:35-12:55 **Radiosurgery for pituitary adenomas**
Constantin Tuleasca
- 12:55-13:30 Discussion
- 13:30-14:30 Lunch
- Session 3 / Moderator: Piero Picozzi**
- 14:30-14:50 **Radiosurgery for vestibular schwannomas**
Jean Regis
- 14:50-15:10 **Radiosurgery for pain**
Piero Picozzi
- 15:10-15:30 **Radiosurgery for skullbase tumors**
Selcuk Peker
- 15:30-15:50 **Radiosurgery for glial tumors**
Ufuk Abacioğlu
- 15:50-16:10 **Pediatric radiosurgery**
Sergej Marasanov
- 16:10-16:30 **Spinal radiosurgery**
Sait Şirin
- 16:30-16:45 **Q&A**
- 16:45-17:00 **Participants feedback**
- 17:00 End of the course



MAIN PROGRAMME

December 8th 2022 Military Medical Academy

- 07:20 *Military Medical Academy Main Hall*
Registration
Venue: Amphitheatre - Hall 1
- 07:50-08:00 **OPENING REMARKS**
Lukas Rasulic, Goran Pavlicevic, Kresimir Rotim
- 08:00-09:45 MILITARY NEUROSURGERY 1 – HEAD & BRAIN TRAUMA**
(10' presentation + 5' discussion)
Moderators: Petar Vulekovic, Alexandru-Vlad Ciurea
- 08:00-08:15 **Decompressive craniectomy and contemporary cranioplasty options in patients with gunshot wounds to the head**
Nenad Novakovic
- 08:15-08:30 **Posttraumatic refractory intracranial hypertension - new approaches to old mystery**
Ibrahim Omerhodzic
- 08:30-08:45 **Most important outcome predictors of war missile penetrating brain injury: an experience from the military conflict**
Bruno Splavski
- 08:45-09:00 **Severity of brain injury - influence on treatment outcome in trauma patients**
Vesna Nikolov
- 09:00-09:15 **ICP monitoring in severe traumatic brain injury**
Djula Djilvesi
- 09:15-09:30 **Causes, treatment and outcomes in delayed deterioration after severe traumatic brain injury**
Aleksandar Caparoski
- 09:30-09:45 **Traumatic dissections and ultrasonographic evaluation**
Toplica Lepic
- 09:45-10:00 *Coffee break*



Venue: Amphitheatre - Hall 1

10:00-13:10 GENERAL SCIENTIFIC SESSION 1 – Expert forum

(15' presentation + 5' discussion)

Moderators: Lukas Rasulic, Kresimir Rotim

SPECIAL GUEST LECTURE

10:00-10:50 **Management of skull base trauma**
Madjid Samii

SNSS TRIBUTE: Madjid Samii Lecture

10:50-11:10 **Concomitant Cranial and Spinal Trauma - Patterns and Outcomes**
Andreas Demetriades

11:10-11:30 **Interhemispheric Transcingulate Sulcus Approach to deep-seated lesions**
Abuzer Gungor

11:30-11:50 **Factors affecting outcome after combat-related cranial defect reconstruction**
Goran Pavlicevic

SNSS TRIBUTE: Milivoje Kostic Lecture

11:50-12:10 **Wartime Prehospital care of the patients with GSW**
Harjinder Bhatoe

12:10-12:30 **Cranial and spinal injuries due to handmade explosives - Experience from the battlefield**
Yusuf Izci

12:30-12:50 **The diagnosis and management of mild TBI as relevant to defense medicine**
Tony Belli

12:50-13:10 **Modern technology in neurosurgery: 3D patient specific implants for cranioplasty - A Romanian multicenter study**
Alexandru- Vlad Ciurea

12:50-13:30 Lunch

Venue: Room 37 - Hall 6, 8th floor

12:50-13:30 SNSS EXECUTIVE COMMITTEE MEETING



Venue: Amphitheatre - Hall 1

13:30-16:00 MILITARY NEUROSURGERY 2 - GENERAL

(10' presentation + 5' discussion)

Moderators: Ioan Stefan Florian, Harjinder Bhatoo

- 13:30-13:45 **Treatment of phantom limb pain**
Selcuk Peker
- 13:45-14:00 **Risk factors for postoperative infection after combat related head injuries**
Goran Pavlicevic
- 14:00-14:15 **Neurosurgery in the Besieged City**
Kresimir Rotim
- 14:15-14:30 **Chronic Subdural Haematoma - The Best Strategy for Treatment in the field**
Petar Vulekovic
- 14:30-14:45 **Treating the bleeding city: my hands-on experience during the terror attack on 26/11 in Mumbai**
Keki Turel
- 14:45-15:00 **Minimally invasive skullbase surgery: what is possible and what are the limitations?**
Gunther Feigl
- 15:00-15:15 **Supramarginal resection of GBMs**
Kostas Fountas
- 15:15-15:30 **Personal experience from war time**
Rasim Skomorac
- 15:30-15:45 **The role of cervical hybrid surgery**
Miroslav Vukic
- 15:45-16:00 **Recognizing, Scoring, and Predicting Blast Injuries**
Olivera Jovanikic
- 15:45-16:15 Coffee break



Venue: Amphitheatre - Hall 1

16:00-19:00 GENERAL SCIENTIFIC SESSION 2 - PERIPHERAL NERVE
(15' presentation + 5' discussion)

Moderators: Shimon Rochkind, Ketan Desai

16:00-16:20 **Nerve transfers for axillary nerve repair in brachial plexus injury: results of 206 adult patients**
Pavel Haninec

16:20-16:40 ***Tribute to Prof. Zoran Roganovic:***
Peripheral nerve injuries
Goran Pavlicevic & Ana Roganovic

16:40-17:00 **Management of brachial plexus missile injuries**
Miroslav Samardzic & Lukas Rasulic

17:00-17:20 **Clinical Aspects of Ballistic Peripheral Nerve Injury:
Shrapnel versus Gunshot**
Shimon Rochkind

17:20-17:40 **Translational research in peripheral nerve injury**
Tom Quick

17:40-18:00 ***IPSL - Vemax: Clinical application of Neuronal® and
Epineuron® as support in the therapy of neuropathic pain***
Slobodan Apostolski

18:00-18:20 **Brachial plexus region neurogenic and non- neurogenic tumors**
Ketan Desai

18:20-18:40 **Nerve surgery for paralysis & pain**
Thomas Kretschmer

18:40-19:00 **Peripheral nerve gunshot injuries**
Jorge Clifton

20:30-23:00 FACULTY DINNER - Dom Garde, Topcider
** Dress code: Dark suit, formal*



Venue: NNV - Hall 2

13:30-16:15 RECONSTRUCTIVE SURGERY & FUNCTIONAL RESTORATION

(10' presentation + 5' discussion)

Moderators: Boban Djordjevic, Milan Jovanovic

- 13:30-13:45 **Dynamic reconstruction of facial nerve paralysis**
Boban Djordjevic
- 13:45-14:00 **Treatment of patients with facial palsy**
Milan Jovanovic
- 14:00-14:15 **The role and importance of the neurosurgeon in multiple limb injuries in the multidisciplinary team - a review of the vascular surgeon**
Ivan Marjanovic
- 14:15-14:30 **Vascular injuries combined with peripheral nerve trauma**
Ilijas Cinara
- 14:30-14:45 **Musculoskeletal trauma associated with peripheral nerves injuries: a review of orthopaedic principles**
Goran Tulic
- 14:45-15:00 **Complex injuries of lower leg and foot**
Marijan Novakovic
- 15:00-15:15 **Reconstruction of the orbit and eyelids in explosive injuries**
Boban Djordjevic
- 15:15-15:30 **Cognitive nerve transfers for spasticity treatment in upper motor neuron syndrome**
Olga Politikou
- 15:30-15:45 **Gunshot injuries of the hand**
Tomislav Palibrk
- 15:45-16:00 **Assessment of reinnervated muscle**
Tom Quick
- 16:00-16:15 **Bionic reconstruction**
Oskar Aszmann
- 16:15-16:30 **Coffee break**



Venue: NNV - Hall 2

16:30-19:00 PARALLEL SESSION 1 - SPINE & NERVE

(10' presentation + 2' discussion)

Moderators: Djula Djilvesi, Ibrahim Omerhodzic

16:30-16:42 **Heterogeneity of spinal extramedullary tumors, treatment modalities and outcomes**

Vojin Kovacevic

16:42-16:54 **Are the tendon transfers the only one option in proximal median nerve injuries with very long nerve defect?**

Andrija Savic

16:54-17:06 **Functional recovery after surgical treatment of the radial nerve injury**

Slavko Djuraskovic

17:06-17:18 **Caudal and periradicular instillation of corticosteroids and anesthetics - our experience**

Igor Popovic

17:18-17:30 **Cervical epidural hematoma**

Luka Berilazic

17:30-17:42 **Difference between complete and incomplete spinal cord injuries and treatment**

Vojislav Bogosavljevic

17:42-17:54 **Carpal tunnel syndrome vs cervical radiculopathy - shared territory**

Miljan Bulatovic

17:54-18:06 **MIS - 9 years experience - lessons learned**

Peter Ilkov

Oral presentations

18:06-18:18 **Ameliorative Effects of Mildronate on The Experimental Ischemia/Reperfusion Injury Model in The Rabbit Spinal Cord**

Dilan Demir, Pinar Kuru Bektasoglu, Durukan Ture, Huseyin Bozkurt, Berrin Imge Erguder, Mustafa Fevzi Sargon, Ata Turker Arikok, Hayri Kertmen, Bora Gurer

18:18-18:30 **Investigation of antiinflammatory effects of isoalantolactone on experimental traumatic spinal cord injury model in rats**

Basel Tarazi, Canan Cakir-Aktas, Melike Mut

18:30-18:42 **Hydrocephalus After Intracranial Hypotension: A Rare and Severe Complication of Spinal Surgery**

Huseyin Demir, Nafiye Sanlier

20:30-23:00 FACULTY DINNER - Dom Garde, Topcider

** Dress code: Dark suit, formal*



Venue: Stomatology Amphitheater - Hall 3

16:00-19:00

PARALLEL SESSION 2 - HEAD & BRAIN

(10' presentation + 2' discussion)

Moderators: Kostas Fountas, Roman Bosnjak

- 16:00-16:12 **Gunshot head injuries-our experience in treatment**
Momir Jovanovic
- 16:12-16:24 **Clinical prediction rules for positive Computed Tomography scan in patients with mTBI**
Bojan Jelaca
- 16:24-16:36 **The role of decompressive craniectomy in traumatic brain injury**
Libor Mencl
- 16:36-16:48 **Civilian penetrating traumatic brain injuries inflicted by low-muzzle velocity weapons**
Marko Samardzic
- 16:48-17:00 **TBI & Covid infection – our experience**
Igor Nikolic
- 17:00-17:12 **Use of preoperative fused deposition modeling in neurosurgical treatment of intracranial tumors**
Jagos Golubovic
- 17:12-17:24 **Head trauma management in the great war- a historical perspective**
Tomaz Velnar
- 17:24-17:36 **Number of microcapillaries, sinusoids correlated with the increase in chronic subdural hematoma**
Boban Jelenkovic
- 17:36-17:48 **Dural metastasis of prostate carcinoma misdiagnosed as a bilateral subdural hematoma**
Vuk Aleksic
- 17:48-18:00 **Practice trends in the utilization of intraoperative neurophysiological monitoring in neurosurgery**
Vladimir Galic



- 18:00-18:12 **Chronic Subdural Hematoma Surgical vs Endovascular treatment**
Domagoj Gajski
- 18:12-18:24 **Assessing the quality of angiographic display of brain blood vessels aneurysms compared to intraoperative state**
Igor Nikolic
- Oral presentations*
- 18:24-18:36 **Comparative analysis of clinical and radiological presentation, surgical approaches and operative outcome of breinstem tumors**
Nikola Repac, Nikolić Igor, Janićijević Aleksandar, Stanković Lazar, Radovanović Maša, Almzeogi Mohamed, Abousabi Zeyad, Tasić Goran
- 18:36-18:48 **Role of the intraoperative fluorescence in the extent of surgical resection of high-grade gliomas on prediction of clinical outcome and progression free survival. Case series**
Shuntov Blagoj, Chaparoski Aleksandar, Filipce Venko, Rendevski Vladimir, Mircevski Vladimir, Gavrilovska Dimovska Aleksandra, Kostov Milenko, Shumkovski Robert, Zhupanoski Aleksandar, Elezi Fatmir, Kamiloski Tomi, Kocevski Ivica, Ilievski Boro, Zdravkovski Panche
- 18:48-19:00 **Evaluation of cerebral venous sinus thrombosis by ct examination at the emergency center University Clinical Center of Serbia**
Tatjana Antonic, Uros Mircic, Savo Kosanovic, Kristina Davidovic, Dragan Masulovic
- 20:30-23:00 FACULTY DINNER - *Dom Garde, Topcider***
** Dress code: Dark suit, formal*



December 9th 2022 Military Medical Academy

Military Medical Academy Main Hall

07:45 Registration

Venue: Amphitheatre - Hall 1

**08:15-16:20 NURSING SYMPOSIUM
CURRENT CONCEPT IN NEUROSURGERY
NURSING - THE STATE IN THE FIELD**

Moderators: Bojana Jovanovic, Zana Djuric, Vesna Svircevic

08:15-08:30 **WELCOME ADDRESS**

Lukas Rasulic, Goran Pavlicevic, Zana Djuric,
Bojana Jovanovic, Vesna Svircevic

08:30-08:40 **Perioperative nursing care for patients with intracranial hypertension**

Vesna Svircevic

08:40-08:50 **The link between recurrent concussions and Chronic Traumatic Encephalopathy (CTE)**

Renata Matak

08:50-09:00 **Health care of the patients before and after disc herniation surgery**

Natasa Zlatkovic

09:00-09:10 **Health care of the patients after subdural hematoma evacuation**

Danijela Bikic

09:10-09:20 **Healthcare for patients with traumatic brain injury**

Jasmina Bajric

09:20-09:30 **Health – related quality of life in patients with glioma**

Rea Bijuk

09:30-09:40 **The importance of the nurse in the recovery of a patient with subarachnoid hemorrhage**

Zvezdana Stefanovic



- 09:40-09:50 **Health care of patients after surgery due to intracranial bleeding**
Marija Krickovic
- 09:50-10:00 **Nursing care for patients with traumatic brain injury**
Lora Gluhak
- 10:00-10:20 *Coffee break*
- 10:20-10:30 **Artificial intelligence & virtual reality**
Aleksandra Damnjanovic
- 10:30-10:40 **Quality of life after brain tumor surgery**
Natasa Barac
- 10:40-10:50 **Importance of scrub nurses' communication skills in treatment of neurosurgical patient**
Zrinka Gabrilo
- 10:50-11:00 **The scope of the nurse work in the rehabilitation of patients with head injuries**
Vesna Matijevic
- 11:00-11:10 **The importance of the scrub nurse during stereotaxic biopsy of brain tumors**
Ljiljana Maric
- 11:10-11:20 **The specificities of nursing care in patients with communication problems**
Mateo Kosier
- 11:20-11:30 **The importance of the instrument case during disc herniation surgery of the cervical spine**
Slavica Babic Bakic
- 11:30-11:40 **Nursing care of patients after transsphenoidal pituitary tumor surgery**
Jovana Gvozdenovic
- 11:40-11:50 **Wound infection in Neurosurgery- nursing role in prevention and treatment**
Tea Sebek
- 11:50-12:00 **Intraoperative nursing care for patients with subdural hemoraging**
Tomislav Rados



- 12:00-12:10 **The importance of the interprofessional team in the care of a patient with diffuse traumatic brain injury**
Sandra Milosevic
- 12:10-12:20 **The role of scrub nurse in the standardized surgical steps during the deep brain stimulation procedure with neurophysiological testing**
Jelena Savic, Marina Stanojevic
- 12:20-12:30 **Support for traumatic brain injury patients's family members in neurosurgical nursing**
Sara Barbaric
- 12:30-12:40 **Traumatic brain injuries-nursing diagnosis and care plan**
Josipa Kvesic
- 12.40-13.20 **Lunch break**
- 13:20-15:00 ***Moderators: Marija Bradic, Sandra Milosevic, Renata Matak***
- 13:20-13:30 **Healthcare standards in patients with peripheral nerve injuries**
Svetlana Delic
- 13:30-13:40 **Modern aspects in treating and health care of children with brain tumors**
Enisa Rizic
- 13:40-13:50 **The work area of nurses in the stereotaxic radiosurgery department X Knife**
Sladjana Sakan
- 13:50-14:00 **The scope of the nurses' work in the neuro-oncology department**
Dijana Stojcic
- 14:00-14:10 **Health care of patients with lumbar disc herniation**
Marina Stojanovic
- 14:10-14:20 **Activities of the nurse in the care of patients with operated aneurysm**
Zvezdana Nikolic
- 14:20-14:30 **Nursing the patient with craniocerebral injuries**
Bojana Nedeljkovic



- 14:30-14:40 **Preoperative preparation of patients with a brain tumor**
Snezana Radivojevic
- 14:40-14:50 **Care of patients with injuries of the cervical spinal cord**
Snezana Pavlovic, Stasa Milekic
- 14:50-15:00 **Care of patients with traumatic heat and brain injuries**
Slavica Vicentijevic, Milena Jevtic, Ranka Pantovic
- 15:00-15:30 *Coffee break*
- 15:30-16:20 *Moderators: Svetlana Delic, Natasa Zlatkovic, Rea Bijuk*
- 15:30-15:40 **Functional recovery of the patients with sci level C5**
Zvezdan Milenkovic, Branka Vuckovic
- 15:40-15:50 **The importance of psychosocial risk factors for the quality
of life of patients with brain aneurysms**
Olivera Djurovic
- 15:50-16:00 **Health care of patients with subarachnoid hemorrhage**
Anita Pesic
- 16:00-16:10 **The most common postoperative complications at the
neurosurgery clinic SKBM**
Ljeptosava Vukicevic, Nada Petric
- 16:10-16:20 **Preoperative preparation of a patient with a brain tumor**
Ivana Lukenda, Ivan Vukoja
- 16:20-16:45 *Conclusions & Closing*
- 20:30-00:00 SOCIAL DINNER - Military Club of Serbia**



Venue: NNV - Hall 2

08:15-10:00 MILITARY NEUROSURGERY 3 - CRANIOFACIAL SURGERY
(10' presentation + 5' discussion)

Moderators: Nebojsa Stojanovic, Marijan Novakovic

- 08:15-08:30 **Concomitant maxillofacial and cranial trauma**
Sasa Jovic
- 08:30-08:45 **Concomitant maxillofacial and cranial non-missile penetrating trauma**
Srbojub Stosic & Sasa Jovic
- 08:45-09:00 **Quality of life following maxillofacial trauma in the elderly**
Zoran Jezdic
- 09:00-09:15 **Surgical treatment of head and neck region soft tissues trauma**
Aleksandar Kiralj
- 09:15-09:30 **Surgical treatment of facial bones and jaws trauma**
Denis Brajkovic
- 09:30-09:45 **Cranial Missile Injuries**
Tariq Khan
- 09:45-10:00 **Craniofacial approaches in skull base surgery**
Zivorad Nikolic
- 10:00-10:20 **Coffee break**



Venue: NNV - Hall 2

**10:20-13:00 GENERAL SCIENTIFIC 3 - GLOBAL NEUROSURGERY:
MASS CASUALTIES & CIMIC**

(15' presentation + 5' discussion)

Moderators: Russell Andrews, Tariq Khan

- 10:20-10:40 **Integrating Civilian and Military Resources to Improve Global Healthcare: Mass Casualty Center Project**
Russell Andrews
- 10:40-11:00 **Global Neurosurgery projects after war - myth or reality**
Lukas Rasulic
- 11:00-11:20 **Civilian and military head gunshot injuries: Prague experience**
Martin Majovsky
- 11:20-11:40 **Advantages of military hospitals neurosurgery supports in Budapest and Dakha**
Andras Csokay
- 11:40-12:00 **Classification of Traumatic Brain Injuries for soldiers Killed In Action in vehicles secondary to blast**
Jonathan Bull
- 12:00-12:20 **Elective neuroendoscopy in field hospital**
Roman Bosnjak
- 12:20-12:40 **Management of war injuries - lessons learned from practice**
Vaso Antunovic
- 12:40-13:00 **Step ladder expansive cranioplasty**
Sudip Kumar Sengupta
- 12:40-13:20 Lunch

Venue: Room 37 - Hall 6, 8th floor

12.40-13.20 SEENS EXECUTIVE COMMITTEE MEETING



Venue: NNV - Hall 2

13:20-19:00 NEUROVASCULAR SUPERSESSION

(10' presentation + 5' discussion)

Moderators: Vladimir Kalousek, Svetlana Milosevic Medenica

- 13:20-13:35 **Early high-flow bypass and trapping for ruptured blood blister-like aneurysms of the internal carotid artery: Battle plans and clinical results**
Hiroki Kurita
- 13:35-13:50 **Advanced Endovascular Techniques for Treatment of Complex Intracranial Aneurysms**
Svetlana Milosevic Medenica
- 13:50-14:05 **Endovascular management of chronic subdural haematoma**
Vladimir Kalousek
- 14:05-14:20 **Endovascular treatment of cerebral aneurysms, the new concept**
Akio Hyodo
- 14:20-14:35 **Mixed reality and live remote communications from angio/ operating theatres**
Mohamed Aggour
- 14:35-14:50 **Endoscopic intracranial hematoma evacuation for several etiologies and sites**
Masao Tambara
- 14:50-15:05 **Spontaneous chronic subdural hematoma in elderly people - Arterial hypertension and other risk factors**
Aleksandar Kostic
- 15:05-15:20 **Middle cerebral artery aneurysms - our seven years experience. Roll and place of the microsurgery in the endovascular center**
Mynzhylky Berdikhojayev
- 15:20-15:30 *Coffee break*
- Moderators: Hiroki Kurita, Arya Nabavi*
- 15:30-15:45 **Endovascular treatment of multiple aneurysms**
Slobodan Culafic
- 15:45-16:00 **Rapid Ventricular Pacing for neurovascular Surgery: Establishing a method in a community Hospital**
Arya Nabavi



- 16:00-16:15 **Mechanical thrombectomy after self-stabbing**
Zoran Milosevic
- 16:15-16:30 **The impact of aneurysm morphology on its rupture -
advanced assessment**
Filip Vitosevic
- 16:30-16:45 **Proposal of minimally invasive endoscopic neurosurgery in
emergency situations**
Tadashi Watanabe
- 16:45-17:00 **The multimodal treatment of AVMs: the state in the field**
Kirill Orlov
- 17:00-17:15 **Artificial intelligence and modern trends in the treatment of
acute ischemic stroke, our experiences**
Marko Prokic
- 17:15-17:30 **Anterior brain circulation aneurysm surgery - single center
experience**
Goran Tasic
- 17:30-17:45 **Expert Consensus on the Management of Brain
Arteriovenous Malformations**
Yoko Kato
- 17:45-18:00 **Endovascular treatment of the distal dissecting large
aneurysm of posterior cerebral artery using flow diverting
stent – case report**
Dragoslav Nestorovic
- 18:00-18:15 **Intracerebral hemorrhage and anticoagulant therapy**
Zeljko Zivanovic
- 18:15-18:30 **Hypopituitarism after spontaneous subarachnoid hemorrhage
of aneurysmal origin**
Vladimir Jovanovic
- 18:30-18:45 **Pediatric neurorinterventional procedures: an update**
Ivan Vukasinovic
- 18:45-19:00 **Endovascular Treatment of Extracranial Carotid Artery
Disease - Experience from University Clinical Center of Serbia**
Vladimir Cvetic
- 20:30-00:00 SOCIAL DINNER - Military Club of Serbia**



Venue: Glass hall - Hall 4

13:20-15:05 TECHNOLOGY & INNOVATIONS

(10' presentation + 5' discussion)

Moderators: Ihsan Solaroglu, Tony Belli

- 13:20-13:35 **Special guest lecture: AI use in neurospine imaging and disease progression prediction**
Nenad Filipovic
- 13:35-13:50 **Hormonal changes in neurotrauma syndrome**
Ranko Raicevic
- 13:50-14:05 **Translational Research in Neurosurgery**
Ihsan Solaroglu
- 14:05-14:20 **Reviving Matrix for Reconstruction of Traumatic Injuries to the Peripheral Nerves and Spinal Cord: Preclinical Proof of Concept**
Shimon Rochkind
- 14:20-14:35 **Neurorobotics for neurorehabilitation**
Stanisa Raspopovic
- 14:35-14:50 **The impact of a Robotic Digital Microscope on the ergonomics in a neurosurgical operating theatre**
Mihail Petrov
- 14:50-15:05 **Avanti Neuroendoscopic Technique**
Avinash Haridas
- 15:05-15:15 *Coffee break*
- 15:15-16:15 MEET THE INDUSTRY PARTNERS - Visualization show off Technology and Innovation - Trends, insights, Innovation and beyond - *ROUND TABLE***
Rudolf Peschek, Milos Banic, Edmond Malek, Coenraad Tamse, Zdenko Tojcic, Martin Majovsky, Ian Drdla, Aleksandar Mirkovic



Venue: Glass hall - Hall 4

16:15-19:00 COMPLICATIONS IN NEUROSURGERY

Moderators: Keki Turel, Jamil Rzaev

- 16:15-16:30 **Intra- and postoperative complications of brain, spine and peripheral nerve surgery**
Keki Turel
- 16:30-16:45 **Complications in CPA surgery**
Jamil Rzaev
- 16:45-17:00 **Minor surgeries with major complications - myth or reality?**
Lukas Rasulic
- 17:00-17:15 **Failed Clip Reconstruction of a Giant Ica Aneurysm**
Ioan Stefan Florian
- 17:15-17:30 **Failure on the First Attempt of Biopsy of PTPR In the Posterior 3rd Ventricle by Endoport-Guided Endoscopic Trans choroidal Fissure Approach**
Roman Bosnjak
- 17:30-17:45 **Retained Intracranial Shrapnel & Bullets**
Harjinder Bhatoe
- 17:45-18:00 **Wandering of missiles in the cranium**
Milan Lepic
- 18:00-18:15 **Case: Cervico-Thoracic Spine Metastasis & Vertebrectomy**
Thomas Kretschmer
- 18:15-18:30 **Complications of ventriculoperitoneal shunt**
Miljan Mihajlovic
- 18:30-18:45 **Complications in cerebral bypass surgery**
Andrey Dubovoy
- 18:45-19:00 **Postoperative Cerebellar Hemorrhage - causative factors in a study of 4 cases**
Ihsan Solaroglu

20:30-00:00 SOCIAL DINNER - Military Club of Serbia



Venue: Stomatology amphitheatre - Hall 3

08:15-10:00 ANESTHESIOLOGY AND INTENSIVE CARE

Moderators: Bratislav Milakovic, Toplica Lepic

- 08:15-08:30 **Clinic for anesthesiology and intensive care in MMA - History & Future Perspectives**
Rade Vukovic
- 08:30-08:45 **General aspects of Neuroanesthesia in cranial surgery**
Bratislav Milakovic
- 08:45-09:00 **General aspects of Neuroanesthesia in spine and peripheral nerve surgery**
Goran Rondovic
- 09:00-09:15 **Neurointensive care - in the eye of anesthesiologist**
Dusko Maksimovic
- 09:15-09:30 **Neurointensive care - in the eye of neurologist**
Boban Labovic
- 09:30-09:45 **Spinal cord injury - pearls of practice**
Ivan Jovanovic
- 09:45-10:00 **Anesthesia and intensive care within United Nations Peacekeeping**
Dragan Djordjevic



December 10th 2022 Military Medical Academy

Military Medical Academy Main Hall

07:30 Registration

Venue: Amphitheatre - Hall 1

08:00-10:30 MILITARY NEUROSURGERY 4 - SPINE

Moderators: Goran Pavlicevic, Danilo Radulovic

- 08:00-08:15 The immediate care of suspected spinal injury in the field
Diaa Galal El Sayed
- 08:15-08:30 Intradural Spinal Tumors: Surgical Considerations and Institutional Experience
Tomislav Sajko
- 08:30-08:45 Anterior cervical approach for the treatment of cervical myelopathy
Danilo Radulovic
- 08:45-09:00 Surgical specificity of the cervicothoracic part of the spine
Nebojsa Stojanovic
- 09:00-09:15 Skeptical approach to the Spine Surgery
Michalakis Spyrou
- 09:15-09:30 Posterior decompression and “skip” laminectomy - an alternative for surgical treatment of multi-level cervical spondylotic myelopathy
Nikolay Velinov
- 09:30-09:45 Surgical treatment of cervical myelopathy
Drazen Ivetic
- 09:45-10:00 Surgical challenges of solving adult scoliosis
Vladimir Lalosevic
- 10:00-10:15 Omentomyelopexy in injured spinal cord
Ljubodrag Minic
- 10:15-10:30 DREZ operation for intractable pain after spinal cord injury
Milan Spaic



- 10:30-10:50 ***IPSL - Vicor: Trigeminal nerve neuralgia – neurosurgical treatments***
Darko Chudy
- 10:50-11:15 Coffee break
- 11:15-13:15 GENERAL SCIENTIFIC 4 – HISTORY & ETHICS**
Moderators: Nikolay Gabrovsky, Tariq Khan
- 11:15-11:35 **The Contribution of Military Conflicts to the Development of Neurosurgery**
Ioan Stefan Florian
- 11:35-11:55 **Neurotrauma Guidelines in Low Resource Settings**
Tariq Khan
- 11:55-12:15 **Ethical aspects in neurosurgery**
Tiit Mathiesen
- 12:15-12:35 **Decision-making biases in neurosurgery**
Nikolay Gabrovsky
- 12:35-12:55 **Epidermoids of cerebral ventricles**
Harjinder Bhatoe
- 12:55-13:15 **Austro-Hungarian medical services in the Isonzo front - a glance at the past**
Tomaz Velnar



Venue: NNV - Hall 2

- 08:00-11:00 YOUNG NEUROSURGEONS FORUM & AWARDS SESSION - PART 1**
(7' presentation + 1' discussion)
 International jury: Ihsan Solaroglu, Tomislav Sajko, Djula Djilvesi
- 08:00-08:08 Gunshot-induced radial nerve injuries: series of cases with literature review**
 Aleksa Micic, Stefan Radojevic, Jovan Grujic, Andrija Savic, Filip Vitošević, Siniša Matic, Jasmina Ivic, Milan Lepic, Ana Marija Tomic, Lukas Rasulic
- 08:08-08:16 One thing led to another Complications after surgical treatment of craniofacial injury – case report**
 Filip Pajcic, Petar Vulekovic, Igor Horvat, Bojan Jelaca, Jagos Golubovic, Nebojsa Lasica, Ivana Bajkin, Adrijana Pajcic, Djula Djilvesi
- 08:16-08:24 Mechanical thrombectomy following mid-basilar artery thromboembolic occlusion**
 Uros Mircic, Filip Vitosevic, Tatjana Antonic, Dragan Masulovic, Marko Ercegovac, Lukas Rasulic
- 08:24-08:32 Spinal tumors: review of patients surgically treated in the MMA clinics for neurosurgery in the last seven years**
 Aleksandar Djurdjevic, Milan Lepic
- 08:32-08:40 Recovery of patients with peroneal nerve injury after surgical treatment – single center experience**
 Zivan Nikolic, Lukas Rasulic, Milan Lepic
- 08:40-08:48 Gliomas of the cerebellopontine angle – presumed origins, clinical presentation, management and the outcome**
 Nebojsa Lasica, Djula Djilvesi, Bojan Jelaca, Jagos Golubovic, Filip Pajcic, Nenad Krajcinovic, Igor Horvat, Marko Despotovic, Dusan Rodic, Milica Gledja, Petar Vulekovic
- 08:48-08:56 Neurological and radiological predictors of road traffic accident induced diffuse axonal injuries: A single centre 6 months outcome analysis**
 Milica Gledja, Djula Djilvesi, Nenad Krajcinovic, Igor Horvat, Bojan Jelaca, Jagos Golubovic, Filip Pajcic, Nebojsa Lasica, Marko Despotovic, Dusan Rodic, Veljko Pantelic, Petar Vulekovic



- 08:56-09:02 **Gunshot Head injury. Management and Outcome. Retrospective single Center Analysis**
Mario Campos, Jacome Morgado, Pedro Ribeiro da Cunha
- 09:02-09:10 **Influence of age of patients with mild traumatic brain injury on disturbance of consciousness and ct findings on admission**
Veljko Pantelic, Petar Vulekovic, Filip Pajicic, Djula Djilvesi, Bojan Jelaca, Jagos Golubovic, Nebojsa Lasica, Dusan Rodic, Marko Despotovic, Milica Gledja
- 09:10-09:18 **Clinical and radiological predictors of the outcome of conservative therapy of patients with tuberculous spondylodiscitis**
Svetozar Stankovic, Dragan Mikic, Colonel Goran Pavlicevic, Jadranka Stankovic
- 09:18-09:26 **Comparative analysis of clinical and radiological presentation, Surgical approaches and operative outcome of brainstem Cavernous malformation**
Almzeogi A. Mohamed, Abousabie Zeyad, Stankovic Lazar, Janicijevic Aleksandar, Radovanovic Masa, Repac Nikola, Nikolic Igor, Tasic Goran
- 09:26-09:34 **The effectiveness of low doses of corticosteroid therapy on the outcome and reducing relapce rate in patients with chronic subdural hematoma after surgical treatment**
Jovan Kovinic, Aleksandar Bojovic, Milan Lepic
- 09:50-09:58 **Epilepsy and arterio-venous brain malformations**
Kaludjerovic Dea, Repac Nikola, Nikolic Igor, Janicijevic Aleksandar, Stankovic Lazar, Radovanovic Masa, Almzeogi Mohamed, Abousabi Zeyad, Tasic Goran
- 09:58-10:06 **Neuroethics and controversies of contemporary neurosurgery**
Boleslav Lichterman, Leonid Likhterman
- 10:06-10:14 **Percutaneous gasserian ganglion procedures with augmented reality headset: feasibility study on human cadaver**
Ali Ekrem Adiyaman
- 10:14-10:22 **Prognostic factors of descending necrotizing mediastinitis development in deep neck infections – a retrospective study**
Tucakov Luka, Kiralj Aleksandar, Brajkovic Denis



- 10:22-10:30 **Convolutional neural networking CNN based automated detection of meningiomas using Keras and Tensorflow on 2D MRI scans**
Tahreem Fatima
- 10:30-10:38 **The initial personal experience in exoscopic aneurysm surgery**
Milan Lepic, Nenad Novakovic, Goran Pavlicevic, Lukas Rasulic, Hiroki Kurita
- 10:38-10:46 **A case report on traumatic delayed epidural hematoma with atypical presentation**
Slavko Zivkovic, Jovan Ilic, Vesna Nikolov, Vesna Stokanovic, Radisav Mitic, Marija Djordjevic, Aleksandar Markovic
- 10:46-10:54 **Military neurosurgery in Imperial and Soviet Russia**
Boleslav Lichterman
- 11:00-11:15 Coffee break
- 11:15-14:20 YOUNG NEUROSURGEONS FORUM & AWARDS SESSION - PART 2**
(7' presentation + 1' discussion)
International jury: Ihsan Solaroglu, Tomislav Sajko, Djula Djilvesi
- 11:15-11:23 **Expressed-depressed skull fracture: management and outcomes - case report**
Nikola Stojanovic, Vesna Nikolov, Boban Jelenkovic, Hristina Jovic
- 11:23-11:31 **Study of vascular-cerebral accidents (CVA) operated in Cameroon: case of the Yaoundé General Hospital**
Lotin D.L.F., Bella B.J.M.
- 11:31-11:39 **Simultaneous surgery of consequential bilateral foot drop after hip surgery – case report**
Zivan Nikolic, Lukas Rasulic, Andrija Savic, Milan Lepic
- 11:39-11:47 **Spontaneous subarachnoid haemorrhage: clinical presentation and outcome**
Stankovic Lazar, Repac Nikola, Nikolić Igor, Janicijevic Aleksandar, Radovanovic Masa, Almzeogi Mohamed, Abousabi Zeyad, Tasic Goran



- 11:47-11:55 **Transorbital brain injury without eyeballinjury**
Nikola Mutic
- 11:55-12:03 **Intracranial aneurysms: Morphological characteristics**
Radovanovic Masa, Nikolic Igor, Repac Nikola, Janicijevic
Aleksandar, Stankovic Lazar, Almzeogi Mohamed, Abousabi
Zeyad, Kaludjerovic Dea, Tasic Goran
- 12:03-12:11 **Bibliometric analysis of pediatric spinal tumors**
Akile Ebrar Mirat, Alican Tahta, Muhammet Arif Ozbek
- 12:11-12:19 **Omentomyelopathy, treatment choice for pseudomenigeceles.**
Case report and review of the literature
Svetozar Stankovic, Ljubodrag Minic, Goran Pavlicevic
- 12:19-12:27 **Brain Hydatid Cyst cases in Neurosurgery ward (Aliabad**
University Hospital) Kabul, Afghanistan
Ahmad Fawad Pirzad, Raihana Ghafari, Ibrahim Kamal,
Ahmad Faisal Pirzad
- 12:27-12:35 **Endovascular treatment of traumatic intracranial**
aneurysms associated with traffic accidents 35
Vitosevic Filip, Milosevic Medenica Svetlana,
Rasulic Lukas
- 12:35-12:43 **Dural tenting sutures in patients with traumatic acute epidural**
hematoma: A Case Report
Aleksandar Markovic, Jovan Ilic, Ivan Stefanovic,
Vesna Nikolov, Misa Radisavljevic, Jelena Kovacevic,
Nikola Stojanovic
- 12:43-12:51 **Transarterial approach for endovascular treatment of post-**
traumatic direct carotid cavernous fistulas
Filip Vitosevic
- 12:51-12:59 **Post concussion syndrome disorders in amateur men athletes**
Nikolaos Ch. Syrmos
- 12:59-13:07 **Penetrating head injury caused by a screwdriver:**
Literature Review and Case Report
Jovan Ilic, Jelena Kovacevic, Aleksandar Markovic,
Vesna Nikolov, Aleksandar Kostic, Marija Djordjevic,
Bojan Stanojevic
- 13:07-13:15 **Wallenberg syndrome: clinical case report**
Dusan Petrovic, Filip Vitosevic, Uros Mircic



- 13:15-13:23 **Inflammatory and oxidative stress makers in intracerebral hemorrhage: preliminary new insights from machine learning and virtual models of interaction**
Vladimir Rendevski, Boris Aleksovski, Ana Mihajlovska Rendevska, Blagoj Shuntov, Aleksandar Chaparoski, Venko Filipce, Aleksandar Zupanoski, Ana Vućurevic, Evgenija Stefanoska, Panche Zdravkovski, Icko Gjorgoski
- 13:23-13:31 **Brain and cervical spine traumatic situations during amateur sea sports activity**
Nikolaos Ch. Syrmos
- 13:31-13:39 **Outcome after traumatic brain injury in the elderly population**
M. Despotovic, P. Vulekovic, Dj. Djilvesi, N. Krajcinovic, I. Horvat, B. Jelaca, J. Golubovic, F. Pajjicic, N. Lasica, D. Rodic
- 13:39-13:47 **Management of Penetrating Brain Injury Caused by Metallic Foreign Objects (Nail, Kitchen Knife and Blunt Screw): Four Case Reports and Brief Literature Review**
James Lubuulwa, Gerald Mayaya, Vladimir Herrera, Anthony Manyanga, Kesheni Lemi, Olaph Lema, David Sikambale, Paschal Chobo, Patrick Ngoya
- 13:47-13:55 **Elements of neuroendoscopic anatomy of the fourth ventricle-cadaveric studies**
Nikolaos Ch. Syrmos
- 13:55-14:03 **Seemingly innocuous trauma on the neurosurgical table: a rare case of brain abscess**
 Beculic Hakija, Begagic Emir, Skomorac Rasim, Jusic Aldin, Cejvan Lejla
- 14:03-14:11 **Assessment of outcome in patients with severe traumatic brain injury with compressive hemathoma treated with decompressive craniectomy. A one centre retrospective study**
Katerina Jolevska, Mihail Taushanov, Martin Bajlozov, Stefan Chaparoski, Dimitar Davidovikj, Marina Jakimoska Dimkovska
- 14:11-14:19 **Optimization of some overlooked modifiable factors can prevent post operative complications in cranioplasty - an analytical research**
Ajay Kumar, Rahul Gupta, Gangesh Gunjan, Abhinav Agrahari
- 14:20-15:00 CLOSING AND AWARDS CEREMONY**

CONTACT

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